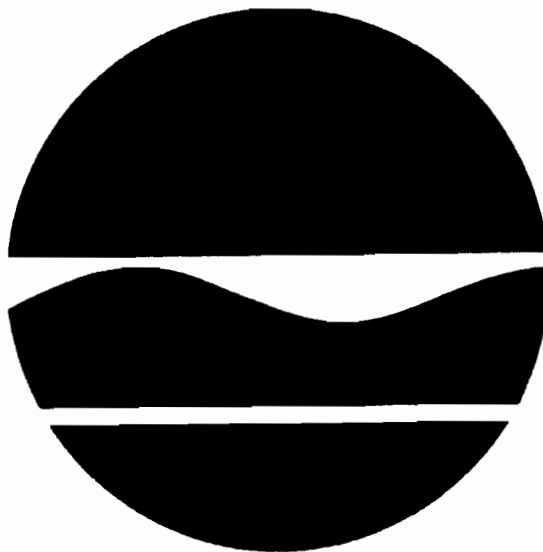


NEW YORK STATE DEPARTMENT OF  
ENVIRONMENTAL CONSERVATION

OLD LAND RECLAMATION SITE  
REGISTRY #915129  
DEPEW (V), ERIE COUNTY


REPORT ON ACTIVITIES  
IMMEDIATE INVESTIGATIVE WORK ASSIGNMENT (IIWA)  
WORK ASSIGNMENT #D003825-36



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New York State Department of Environmental Conservation  
GEORGE E. PATAKI, Governor      ERIN CROTTY, Commissioner

Prepared by:



6/10/02

David S. Szymanski  
Environmental Engineering Technician III  
Division of Environmental Remediation  
Region 9



6/10/02

Martin L. Doster, P.E.  
Regional Hazardous Waste Engineer.  
Division of Environmental Remediation  
Region 9

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## **1.0 INTRODUCTION**

The New York State Department of Environmental Conservation (DEC) requested the services of a standby contractor to implement an Immediate Investigative Work Assignment (IIWA) at the Old Land Reclamation Site, Site #915129 on the DEC Registry on Inactive Hazardous Waste Sites (see Site Location Map: Figure 1). Requirements of the IIWA were documented in an IIWA Work Plan dated November 2001 (Appendix A). A Notice to Proceed letter (Appendix B) was issued on December 10, 2001, to URS Corporation Group Consultants (URS), a DEC Standby Work Assignment Contractor to complete the items in the DEC Work Plan under DEC Standby Contract #D003825-36.

The IIWA was prompted by citizen concerns over the quality of groundwater in proximity to Old Land Reclamation. The IIWA project examined areas of concern on and proximal to the Old Land Reclamation Site and on the south side of Cayuga Creek near residential housing. The IIWA gathered information on bedrock groundwater quality on both the Old Land Reclamation Site and on two Town of Cheektowaga parcels south of Cayuga Creek. Overburden groundwater, leachate and soil quality on the Old Land Reclamation Site was also assessed. Additional objectives of the IIWA were to report groundwater flow patterns at the Old Land Reclamation Site in relation to established elevations recorded at groundwater monitoring wells at the adjacent Land Reclamation Site (see Figure 2).

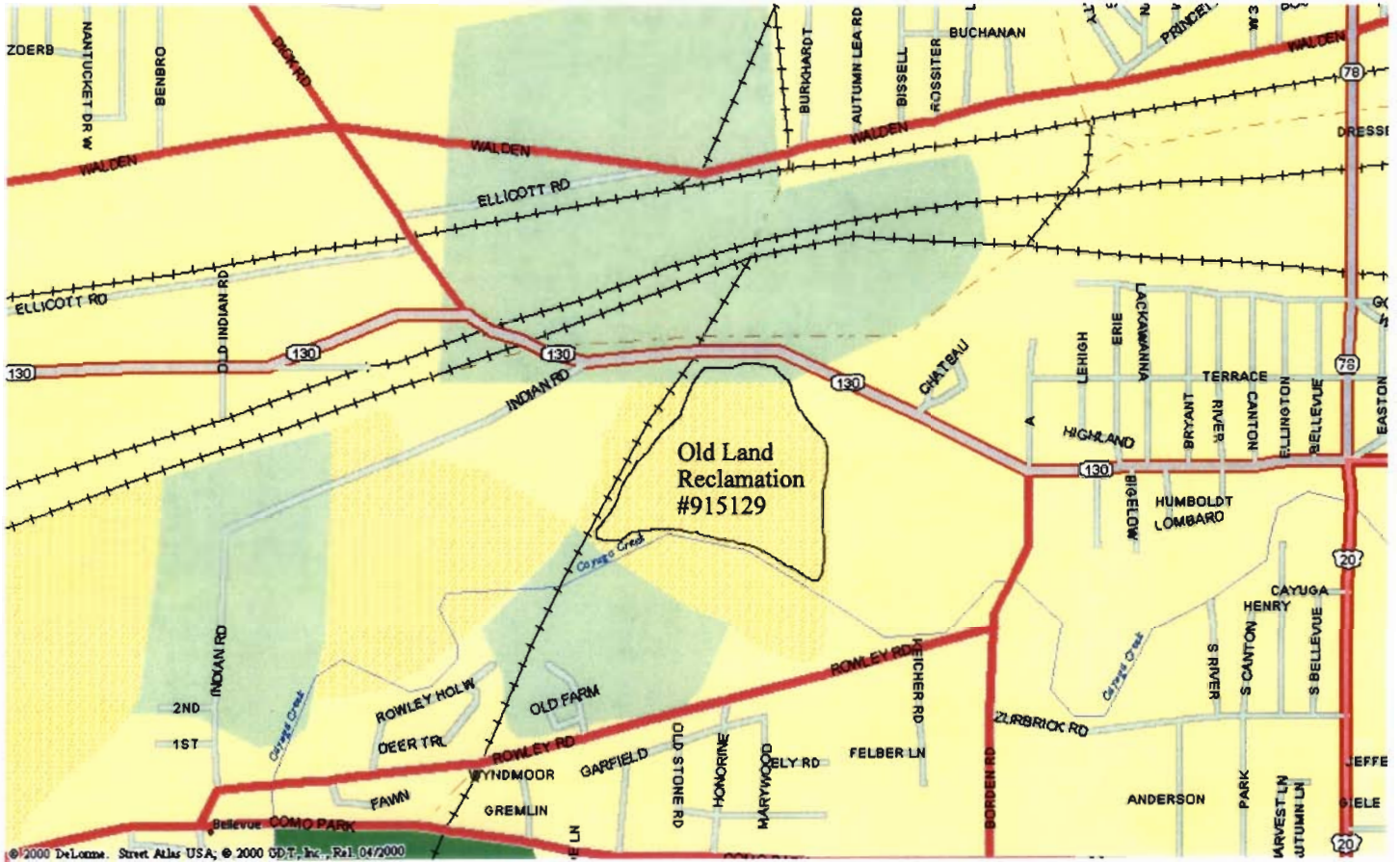
During this work assignment the following number of work items were accomplished: 6 soil samples, 4 leachate samples, 11 groundwater samples, 8 monitoring wells installed and elevations set on the wells with reference to existing datum.

## **1.1 SITE DESCRIPTION AND ENVIRONMENTAL SITE HISTORY OF THE AREA:**

### **Old Land Reclamation Site, Registry # 915129:**

The Old Land Reclamation Site is a 64-acre site which borders Broadway on the north, Cayuga Creek on the south, and Farmland and a Golf Driving Range on the east. A former railroad right-of-way separates the site from the Land Reclamation site, a transfer station and a scrap yard on the west. The Old Land Reclamation site is not lined and does not have a leachate collection system (only landfills built after 1988 were required to implement such systems). The waste areas are not well covered. The site is currently owned by several site owners including the Village of Depew, Erie County, Mecca Brothers and Anthony M. Reger. The site remains undeveloped, relatively flat, and is densely covered with field grasses and brush. The site is currently classified as "3" on the Registry of Inactive Hazardous Waste Disposal Sites. Class 3 indicates that the site does not present a significant threat to the environment or public health.

From 1960 to 1975, the site was operated by GCF, Inc.(1960-68), Wilfred Schultz, Inc. (1968-70), and South Ogden Land Development Corp.(1970-75) to dispose of municipal and industrial wastes, including miscellaneous refuse, foundry sand, slag, fly ash, oil sludge, pine-tar pitch, inks, and waste colors.



**Figure 1**  
**Site Location Map**  
 (not to scale)

Previous site investigations conducted to determine contamination at the site included a 1984 Site Evaluation by Erie County Department of Environmental and Planning, a 1986 Phase I Investigation by DEC, and a 1991 Phase II Investigation by DEC. Numerous leachate seeps breach the site's south side and flow into Cayuga Creek. Leachate and soil samples from these seeps have been collected several times by DEC. The Phase II Investigation showed exceedances of Groundwater Standards for some volatile organic compounds (VOCs) and metals in the single on-site overburden well (GW-2B) and low level contamination in the three bedrock wells (GW-2A, GW-6A and GW-7A). Monitoring Wells 2B, 6A and 7A were resampled by DEC in February 2001. Results of that sampling event (See Table 1) were similar to the results of the Phase II investigation. In addition to the 1991 Phase II Investigation, significant leachate seeps were sampled by DEC in 1992 and 1999.

**Land Reclamation Site, Registry #915070:**

This 40-acre site (33 acres landfill and a solid waste transfer station) is located on Indian Road and Broadway in the Town of Cheektowaga. The site is bordered by a former railroad right-of-way, the Old Land Reclamation site and a salvage yard on the east, Indian Road on the north, Schultz Landfill (C&D landfill) on the west and north, and Cayuga Creek on the south.

From 1950 to 1983, the site was used for disposal of municipal and industrial wastes by Land Reclamation, NEWCO, and BFI. Currently BFI is operating a refuse transfer station on the north portion of the site.

Site investigations conducted at this site included a 1979 Hydrogeologic Investigation (RECRA Research and Wehran Engineering), a 1986 Phase I Investigation (DEC), a 1988 Site Assessment (EPA), and a 1991 Phase II Investigation (DEC). The Phase II Investigation showed contamination of surface water and groundwater above the DEC Standards.

The fill in the landfill area varies from 20 to 80 feet in height and was capped with clay in 1985. A final landfill closure, designed to meet DEC's Part 360 requirements, was completed in 1997. All leachate seeps were eliminated during capping of the landfill. In 1998, DEC issued a Record of Decision (ROD) which declared the capping of the landfill was protective of the environment and required a long term operation, maintenance and monitoring (OM&M) plan. This OM&M plan is being implemented. The site is currently listed as a Class 4 on the Registry of Inactive Hazardous Waste Disposal Sites. Class 4 indicates the site is properly closed and requires continued management.

**Schultz C&D Landfill:**

This 20-acre construction and demolition (C&D) debris landfill, which was first permitted by the Erie County Health Department in 1965, is located off Indian Road and west of the Land Reclamation site. It is currently owned and operated by Integrated Waste Schultz

Landfill, Inc (IWSL). In 1979, the DEC granted the first permit to the facility for C&D materials only. The landfill does not have a liner or a leachate collection system, as at the time the permit was issued, regulations did not require it. A groundwater extraction system consisting of wells that pump contaminated groundwater to the surface for proper treatment was constructed and began operation in 1999. IWSL is required to test groundwater and surface water (Cayuga Creek) around the landfill on a quarterly basis. A permanent landfill cap over that part of the landfill which is full, is expected to be installed beginning in 2002.

### **Buffalo Crushed Stone:**

Buffalo Crushed Stone (BCS) which began its operations around 1929, operates a 208-acre limestone quarry north of Como Park Boulevard and west of Indian Road in Cheektowaga. BCS has a permit to mine approximately 136 acres of the property. The remaining 72 acres are berms, haul roads and a processing plant.

Because the mining operations occur below the water table, BCS must remove groundwater from the quarry during mining operations. In 1979, DEC issued a permit to the facility to pump water out of the quarry into a ditch leading to Cayuga Creek. Because of hydrogen sulfide gas odors in the pumped water, BCS installed a treatment system in 2001 to reduce hydrogen sulfide levels. In order to address area residents' concerns about the quality of groundwater being discharged from BCS, BCS tested the water for EPA priority pollutants in 2000. No priority pollutants were detected.

Due to complaints by nearby residents about the vibrations from blasting operations, BCS hired Vibra-Tech to characterize the area's geologic response. The study was conducted in 2000 and concluded that blasts were below the permitted thresholds established by the U.S. Bureau of Mines. BCS has implemented Vibra-Tech's recommendation to minimize residential structure response.

In order to address public concerns about the dust, DEC tested rock samples. The analysis showed that rocks are mostly limestone, with minor amounts of silicon dioxide and minor amounts of crystalline silica. No asbestos or heavy metals were detected in the samples.

### **Cayuga Creek:**

Cayuga Creek in this area is classified as a Class C waterway, a regulatory determination signifying the best use of the waterbody is for fishing. The median annual flow of the stream estimated from a nearby gage in Lancaster is about 50 cubic feet per second. Monitoring of Cayuga Creek for water quality is done routinely by the New York State Department of Environmental Conservation under the Division of Water's Water Quality Monitoring and Assessment Program. The latest report is dated 1993-94 entitled; *The Niagara River - Lake Erie Drainage Basin, Biennial Report 1993-94*. The latest sampling effort was conducted in 2001 under this program. The 1993-94 report (and an earlier 1987-88 report) determined the water



quality of Cayuga Creek in the Cheektowaga/Lancaster area to be of fair quality based upon water quality analysis, macroinvertebrate tests and sediment quality. The sampling location for Cheektowaga/Lancaster is located 25 feet downstream from Union Road.

## **1.2 GEOLOGY AND HYDROGEOLOGY OF THE SUBJECT AREA:**

The Old Land Reclamation site lies within the Erie-Niagara basin and the Erie-Ontario lowland physiographic province. The overburden consists mainly of glacial till, an unconsolidated, poorly sorted mix of clay, silt, and/or sand. It forms a thin mantle over the bedrock and exhibits low permeability.

The bedrock in the region is exclusively sedimentary. The shale, limestone, and dolomite units dip gently southward at approximately 40 feet per mile.

The information gathered during Phase II Investigations at Old Land Reclamation and Land Reclamation sites indicates that these sites are underlain by Onondaga lime stone formation, which is about 110 feet thick. The depth to bedrock varies from 26 to 34 feet on the north of these sites and from 8 to 11 feet below ground surface along Cayuga Creek.

Buehler and Tesmer in "The Geology of Erie County"(1963) note that the Moorehouse member is the uppermost member of the Onondaga Limestone recognizable in Erie County. Generally dated as early Middle Devonian in age, the Onondaga Limestone is characterized as coarse to very finely crystalline; dark grey to tan in color with chert and disseminated bituminous matter also present.

Variation in fracturing and bedding planes can impact groundwater yields from bedrock wells. This variation is evident in monitoring well GW-8A which was drilled to 60 feet below ground surface. The rock in this well was decidedly more competent ( i.e. contained less fracturing), than the rock from the other bedrock wells. This feature, in turn, has produced a well that is very slow to recharge and yields little recoverable water.

Hydrogen sulfide was also noticeable in monitoring well GW-8A. Hydrogen sulfide is naturally occurring and is common within this rock formation. This circumstance is further corroborated by Dvirka and Bartilucci, who in 1991<sup>1</sup> noted the presence of natural gas containing hydrogen sulfide with increasing depth of bedrock drilling.

Overlying the bedrock in the subject area to the south of Cayuga Creek is a 30 foot thick bed of silty clay to clay as noted in boring logs for monitoring wells GW-8A and GW-9A

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<sup>1</sup> "Phase 1/Phase2 Remedial Investigation Report, Union Road Site, Town of Cheektowaga, Erie County, New York, (Site Registry No. 9-15-128) Vol.1, Pg. 3-13 & 3-14, Dvirka and Bartilucci Consulting Engineers, June 1991.

(Appendix C). To the north of Cayuga Creek, in the vicinity of Old Land Reclamation, the bedrock is covered by six feet of sand and silty clay with the remainder of the cover being typical landfill materials.

The groundwater in overburden moves south toward the creek. In general, the groundwater movement in the bedrock is to the southwest based on earlier studies.

## **2.0 PROJECT SCOPE:**

The IIWA was designed to incorporate work performed by the Contractor and by DEC personnel. Tasks such as monitoring well installation and completion of waste disposal were performed by the Contractor and their subcontractor, while tasks such as well purging, sampling and well elevation surveys were completed by DEC staff.

## **2.1 MONITORING WELL CONSTRUCTION:**

Field work commenced on December 13, 2001 by performing a Site walk-over with the contractor. Proposed well locations were selected and scheduling was discussed at this time. The Town of Cheektowaga Town Engineer's office assisted in providing the DEC with assistance in selecting the Town parcels for the off-site wells at Old Farm Road and Rowley Hollow Road. These locations were selected based upon expected groundwater flow direction from the Old Land Reclamation site.

On December 18, 2001, Buffalo Drilling (Subcontractor to URS) mobilized an off-road drill rig to begin the installation of three monitoring well couplets on the Old Land Reclamation Site. The contractor provided a staff Geologist for on-site supervision of Buffalo Drilling and for documentation of field work, bore logs and well construction details (Appendix C.)

Beginning with the easternmost well couplet of GW-3A and GW-3B, Buffalo Drilling proceeded with augering and split spoon sampling the fill/soil material to bedrock in one of each of the three pairs of wells on the OLR Site (see Figure 2). Borings were examined and monitored using appropriate air monitoring equipment (i.e. Photo Ionization Detector, Combustible Gas Indicator, Hydrogen Sulfide meter) and were logged by the Contractor's Geologist. Upon reaching bedrock, one well per couplet was cored and reamed to a point approximately 50' deep (from surface), into bedrock. A 6" steel casing was socketed into the top of bedrock approximately 2' and a 2" PVC well was installed. The fill/soil material overlying the bedrock was screened at the fill and native soil interface zone in the second well installed at each of the three couplets.

It should be noted that during installation of the GW-3A and 3B couplet, a snowstorm that left over 7 feet of snow hampered work progress. Buffalo Drilling mobilized a small bulldozer to the site to clear a parking area at Broadway and to flatten out a roadway back to the

drilling areas. Overall this made things difficult and the only access to the drilling area was made by foot or by use of Buffalo Drilling's off-road equipment. Prior to mobilizing Buffalo Drilling's second drill rig for the Old Farm Road and Rowley Hollow Road well installations, the Town of Cheektowaga assisted by clearing snow from the two selected drilling locations on Town property.

On January 16, 2002, Buffalo Drilling mobilized a second rig to begin well installations at the two off-site locations south of Cayuga Creek. Simultaneously, a second crew was working on completion of the last couplet (GW-5A & 5B) on the OLR Site. Augering and Split-Spoon sampling revealed that the underlying soils at Old Farm Road and at Rowley Hollow Road were native in appearance and had no visual indication of any fill activity outside of near surface (0-5') soils which were probably reworked as part of the construction of the housing subdivision located at each location.

Monitoring well GW-8A (on Old Farm Road) appeared to have very little groundwater recharge during installation so the well was drilled an additional 10' to a final depth of 60'. The well was developed over a period of several weeks with annotation regarding its very slow recharge. Notable odors of hydrogen sulfide were present during development of this well and were monitored during construction and sampling for Health and Safety purposes.

Monitoring Well GW-9A was installed on Rowley Hollow Road. This well produced groundwater suitably and very little hydrogen sulfide odors were present in the bedrock groundwater during development and sampling.

### **3.0 SOIL SAMPLING:**

Collection of soil samples were attempted during well installation on the Old Land Reclamation Site. It is noted that in some cases samples were difficult to retrieve due to the very poor recoveries that the split spoons were providing in the GW-3A & 3B, GW-4A & 4B and GW-5A & 5B clusters. The Boring Logs (see Appendix C) describe the materials encountered (i.e. wood, plastic, trash) found in the well borings. It is noted there was limited native material overlying bedrock in all of the wells installed on the Old Land Reclamation Site. Soil from Monitoring well GW-5B was sampled on January 15, 2002, as a composite of two split spoons taken at 6'-8' and 18'-20' depths (noted as sample #41). The composited sample was taken due to a noticeable sheen on the soils/fill inside of the spoon at these two depths and due to recovery in the split-spoon sampler providing insufficient quantity for a single grab sample from one spoon. No odors were noted in this sample. The composite sample was submitted to Severn Trent for analysis of Semi-Volatile Organic Compounds (SVOCs) and Total Metals (17). An additional 2oz. Jar of (assumed) native material was taken from the 24'-25' spoon (just above bedrock) and retained by DEC as an archive sample.

Split spoon sampling at off-site monitoring wells GW-8A and GW-9A indicates native material is present from near-surface all the way down to bedrock (see Boring Logs; Appendix

C). Samples were collected from split spoons at approximate 6'-8' depths from the two wells and retained by the DEC for archive samples. Both of these two archive samples were of native clay soil. A single soil sample from GW-8A was submitted to Severn Trent on January 17, 2002 for analysis of Volatile Organic Compounds (VOCs). The sample was taken from the bottom of a sand layer underlying over 28' of clay and overlying the bedrock interface at 36.3' depth. This was taken to verify if any Volatile Organic Compounds (VOCs) were present in the (assumed) more permeable sand layer.

#### **4.0 GROUNDWATER SAMPLING:**

On March 14 and 15, 2002, the DEC performed groundwater purging and sampling from the eight monitoring wells installed as part of the IWA and three of the four previous monitoring wells installed during the Phase II Investigation in 1990 (the fourth well, GW-2A has suffered structural collapse at a depth making sampling impossible.) Water was purged a minimum of three volumes\* (see DEC Purge Logs; Appendix D). Samples were collected on March 15, 2002 with new disposable-type bailers, and placed into appropriate sampling bottles provided by the DEC Contract Laboratory - Severn Trent. The samples taken were submitted for the analyses of VOCs, SVOCs including Pesticides/PCBs, Metals and Cyanide. The analytical methods chosen were subject to appropriate DEC Contract Laboratory Protocol (CLP) methodology. In addition, monitoring wells GW-5A and GW-6A were sampled for Total Recoverable Petroleum Hydrocarbons (TRPH) due to the presence of a petroleum sheen found in the soil samples from the GW-5A installation. A triple sample volume was taken from monitoring well GW-9A to provide for Matrix Spike and Matrix Spike Duplicate analyses for quality control purposes.

All samples were packaged in coolers (on ice) and were submitted with appropriate Chain of Custody documentation on March 15, 2002, to Severn Trent's Amherst, New York laboratory. Trip Blanks were provided by the Lab and returned along with the samples.

\*Monitoring Well GW-8A was *not* purged on March 14<sup>th</sup> or 15<sup>th</sup>, as the well had demonstrated very slow recharge (as documented during previous week's purging work: see Table 11: Well Elevation Data). Direct sampling of water that had recharged into the well over the interim period following the last purge was conducted. This sample provided enough sample volume needed for the requested analytical parameters.

#### **5.0 SOIL/LEACHATE SAMPLING**

On March 28, 2002, six samples were collected (shown in Figure 2) after careful consideration and observation of discharges and discoloration of soils during several site inspections:

\* L1 - Leachate discharge point along bank of Cayuga Creek between Monitoring Well couplets GW-4A/ 4B and GW-5A/ 5B. Leachate was discharging at a high rate of flow (estimated visually at between 3-5 gallons per minute) and was generally clear. A slight sheen was observed. Of note, were strong hydrogen sulfide odors and black staining (assumed to be

from the hydrogen sulfide) on the creek bank.

\* L2 - Leachate seep along bank of Cayuga Creek between Monitoring Well couplet GW-3A/ 3B and Monitoring Well GW-7A. Seep area is approximately 30' long and has exposed municipal trash (ie: plastic, glass, household trash) hanging out of the bank face. Notable sheens were observed along the bank face in this area. The sample was collected from a sump dug into the bank face at a point selected for flow observed in the seep area.

\* S2 - Soil sample collected from soil at sample L2 discharge point in bank face.

\* L3 - Leachate point collected from a point along the east face of the landfill at the approximate midpoint of the eastern ditch line. Seep was identified on March 27, 2002, and a sump was dug at the point of leachate origin at the base of the landfill slope. Notable reddish staining and sheens were observed in soil and leachate accumulating in a flat area between the sample location and the eastern ditch. Municipal trash similar to that seen at L2 was observed emerging from the ground at L3.

\* S3 - Soil sample collected from soil at sample L3 discharge point at base of eastern slope of the landfill.

\* OF - Water sample collected from outfall pipe/ basin at north end of west ditch along the south edge of the Twin Village Salvage fenceline. This outfall pipe and basin were installed in March 2002 as part of Twin Village's efforts to correct a petroleum spill issue on which the Department has taken enforcement action. Noted were amounts of buried trash (i.e.: glass and plastic) which have been exposed along the ditch's banks due to Twin Village's excavation efforts during installation of their outfall system.

All soil/leachate samples were submitted in a cooler (on ice) that same day to Severn Trent Laboratory for analysis of VOCs, SVOCs including Pesticides/PCBs, Metals and Cyanide in both the water and soil samples. Appropriate Chain of Custody accompanied the samples delivered to the Lab.

As part of the study of the Old Land Reclamation area, DEC had previously collected a single soil sample (S1) on 11/13/01 from the north end of the western ditch at a point just outside of the south fenceline of Twin Village Salvage, Inc. (Figure 2.) This sample was taken to determine what, if any, contaminants may be present in soil upstream of any potential leachate points entering the ditch from Old Land Reclamation or other undefined leachate locations.

## **6.0 ANALYTICAL RESULTS**

Analytical Data from the sampling performed as part of this supplemental assessment were received over a period of several months and are summarized in Tables 1 through 10. Laboratory data summaries are included in the attached Appendix D for reference.

### **6.1 WATER SAMPLES :**

Data for the groundwater and leachate sampling are shown in Tables 1 through 5. The tables report all detected compounds found in the eight new and 3 previously installed wells

associated with this site in addition to results from water samples taken at three leachate points (L1, L2 & L3) and at the outfall point (OF). Table 10 includes wet chemistry analysis for both water and soil samples. Appendix D contains the raw analytical data and laboratory narrative which describes methodology and quality control.

A discussion of the 2002 sampling results above quantitation values and exceeding a groundwater standard value is presented below.

Table 2 contains volatile organic compound data. Reported concentrations of chemical compounds are predominantly at low levels for all sample locations with the exception of monitoring well GW-5B. This sample indicates groundwater contains benzene, toluene and xylene at 1000 parts per billion (ppb), 300ppb and 250ppb, respectively. GW-5B is a shallow overburden (soil overlying bedrock) well located within the boundaries of the landfill itself. These compounds are typical of petroleum (e.g. gasoline) contamination. It is noted that the boring logs report a petroleum sheen at 6'-8' and at 18'-20' below ground surface in GW-5B. Chlorobenzene was detected at 13 ppb in GW-2B and in leachate sample L1 at 51 ppb. L1 also contained 52 ppb of chloroethane. The surface water sample taken near the Twin Village Salvage property at location OF contained toluene and xylene at 62 ppb and 130 ppb, respectively.

Table 3 contains data for Semi-Volatile Organic Compounds (SVOCs) at generally low concentrations, at or below quantitation levels. The leachate at sample L1 had the highest value of SVOCs with 4-Chloroaniline reported at 170 ppb. A noticeable sheen was observed when the sample was being collected. Nearly all groundwater values were below detection limits. Only two compounds were slightly above standards; 4-chloroaniline at 27 ppb in GW-4B and bis (2-ethylhexyl) phthalate at 25 ppb in GW-6A.

Table 4 reports results of pesticide and PCB analysis. All values for samples from taken from groundwater, leachate or surface water on the landfill were less than detection limits. Three pesticide compounds were detected in the part per trillion range in monitoring well GW-8A. PCBs were not detected in any of the samples.

Table 5 reports results of inorganic metals. Compounds exceeding standards at every sample location include iron and sodium. Manganese was found in 8 of the 15 sample locations. Arsenic was found at one location (GW-8A) at a level of 73.1 ppb.

Table 1 also includes historical monitoring data from wells installed from the 1991 Phase II Investigation. The data indicates that the relatively low level contamination has remained consistent for groundwater over the years.

## **6.2 SOIL SAMPLES:**

Of the eight soil samples taken over the course of the Investigation, five were submitted for selected analysis. Samples S1, S2, and S3 were analyzed for VOCs, SVOCs including Pesticides/ PCBs and Metals. Subsurface soil from GW-5B (Sample 41) was analyzed for SVOCs and Metals. Subsurface soil from GW-8A (Sample #82) was submitted for VOCs only. In addition, samples S2 and S3 were analyzed for cyanide and pH. Results reported for VOCs, SVOCs including pesticides and PCBs, metals and cyanide are reported in Tables 6 through 10. Analytical results are compared to guidance values found in DEC's Division of Environmental Remediation Technical and Guidance Memorandum (TAGM) 4046 for evaluation.

Table 6 contains volatile organic compound data from four soil sampling locations. Sample S1 (north end of western ditch at the Twin Village Salvage property line) indicates values exceeding guidance values for benzene, toluene, ethylbenzene, xylenes. These parameters are typically associated with petroleum (gasoline) products.

Table 7 contains semi-volatile organic compound data from four locations. Only two compounds exceeded the guidance value; benzo(b)fluoranthene and chrysene in sample S1. All other compounds were below quantitation levels.

Pesticides and PCB results (Table 8) indicate that no pesticide/PCB compounds are present above the guidance values.

Table 9 contains analytical data for inorganic metals. Samples S1, S2 and S3 all contained low levels of copper, mercury, nickel and zinc, all at or slightly above guidance values. Sample 41 (subsurface soils from GW-5B) had elevated values of lead and zinc and lesser values for cadmium, chromium, copper, mercury, nickel and selenium.

Cyanide analysis was performed on all water and soil samples and the results are in Table 10. Cyanide was reported at 12 ppb in leachate sample L3, but was not detected in any other sample.

## **7.0 GROUNDWATER FLOW**

On April 18, 2002, DEC set elevations on the newly installed Old Land Reclamation monitoring wells by tying into existing groundwater monitoring well elevations on the adjacent Land Reclamation Site and comparing elevation differences to an arbitrary site-specific elevation benchmark set during the 1990 Phase II Investigation. The elevations were adjusted to match the new datum and logged onto Table 11 for reference. Groundwater elevations were determined from recorded elevations taken during the Investigation and were also entered into the table. On May 21, 2002 elevations were set on the two wells south of Cayuga Creek in relation to the new elevation set on GW-6A.

As detailed on Figure 3, overburden groundwater flow under the landfill is towards the creek in a south-southeast direction. This flow pattern is consistent with earlier studies of the site. Flow patterns for bedrock groundwater could not be accurately defined due to a lack of data.

## **8.0 CONCLUSIONS**

Analytical data indicate that in general, the values of most compounds studied are at or below quantitation levels on the Old Land Reclamation property, with the exception of sodium, manganese and iron. Monitoring well 5B detected elevated VOCs that are associated with petroleum products such as gasoline. Table 1 contains analytical data from historical sampling events that show no significant change in the groundwater quality at the landfill over the past 12 years.

There is no indication that off-site groundwater, specific to the residential area to the south, has been impacted by the landfilling activities at Old Land Reclamation. In addition, the

information collected from the drilling operations on the off-site monitoring wells determined that the residential area is located over a clay soil layer that ranges from 23-30 feet thick before bedrock is reached.

Groundwater flow patterns indicate that overburden (shallow) groundwater is directed toward Cayuga Creek. Flow patterns in the deeper bedrock groundwater were difficult to assess given the variations in bedrock competency. However, earlier studies have shown the bedrock groundwater flow to travel in a southwest direction.

Leachate breakouts along the landfill face are numerous and directly discharge into Cayuga Creek. Analytical data of the seeps indicate that only one of the three sampling points had detectable levels of Organic Compounds. The inorganic metal compounds detected are at levels that are consistent with previous DEC sampling efforts in 1989, 1992 and 1999.

The samples taken of surface water and soil in the ditch near the Twin Village Salvage facility did show contamination due to petroleum. It is noted that the facility has entered into an Order on Consent with the Department to address the operations at the facility.

Sample results of surface water from Cayuga Creek in 1992 and 1995 did not document any detections of contaminants with the exception of iron, magnesium and lead. Sampling of surface water in Cayuga Creek in 2001 determined that only iron was above the standards for water quality (Class C stream).

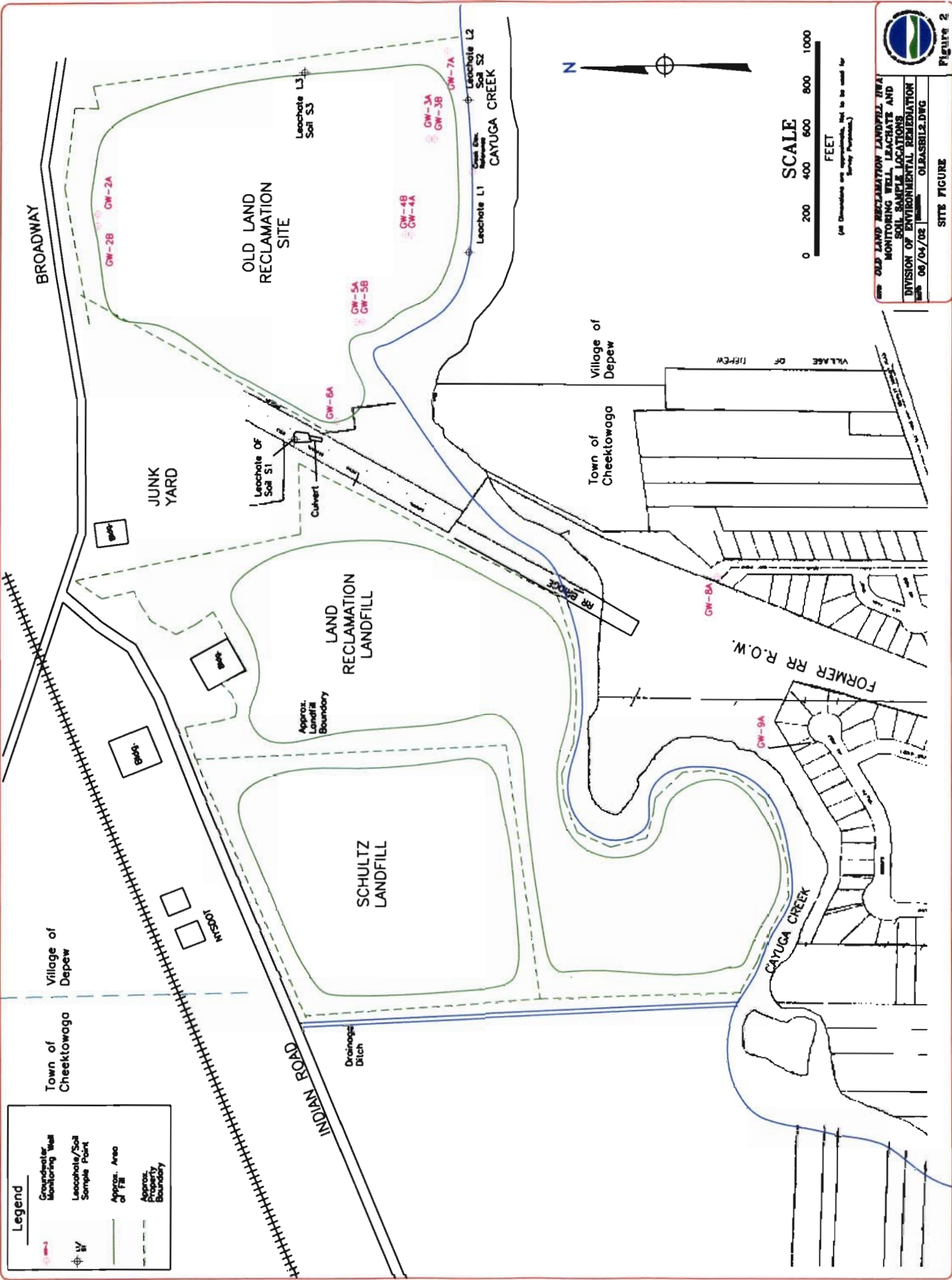


# FIGURES



NEW OLD LAND RECLAMATION LANDFILL FILL  
 MONITORING WELL LOCATIONS AND  
 SOIL SAMPLE LOCATIONS  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 DATE 08/04/02 DRAWN OLEASBRIE.DWG

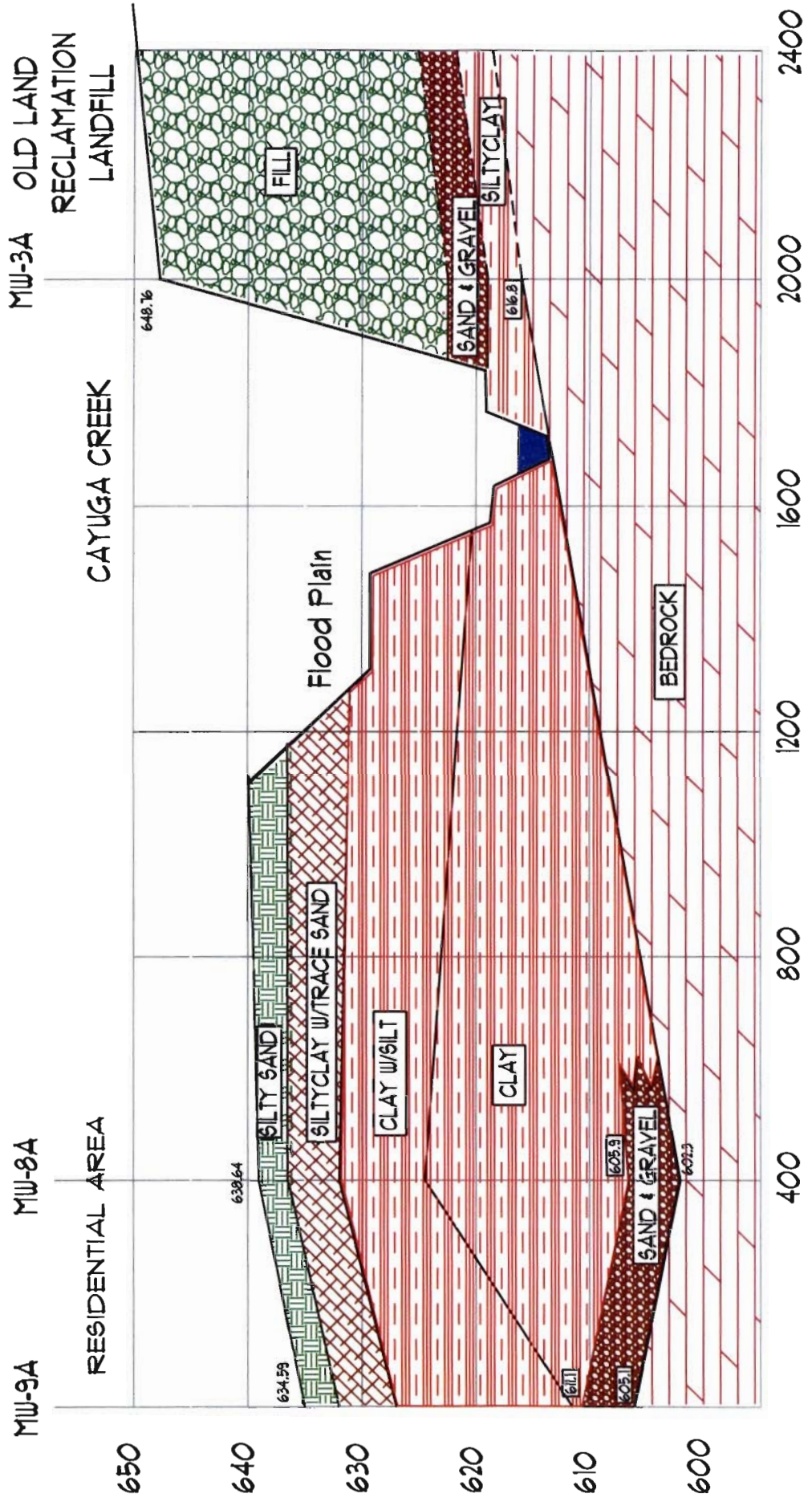

SITE FIGURE



**Legend**

	Groundwater Monitoring Well
	Leachate/Soil Sample Point
	Approx. Area of Fill
	Approx. Landfill Boundary



**SUBSURFACE CROSS SECTION**  
**DIVISION OF ENVIRONMENTAL REMEDIATION**  
 DATE: MAY 28, 2002 | DRAWING: OLRCROSS SECTION.DWG  
 SITE: OLD LAND RECLAMATION LANDFILL

Figure 4

# TABLES

**Table 1**  
**Old 1 and Reclamation Site #915129, IIWA**  
**Groundwater Analytical Results Comparison : Selected Compounds / Analytes**  
**(7/89, 2/01 & 3/02 DEC Sample Events)**

COMPOUND	GW-2B (7/89)	GW-2B (2/01)	GW-2B (3/02)	GW-6A (7/89)	GW-6A (2/02)	GW-6A (3/02)	GW-7A (7/89)	GW-7A (2/02)	GW-7A (3/02)
Benzene	11	10	8J	9	ND	ND	26	ND	ND
Toluene	8	2	1J	ND	ND	ND	ND	ND	ND
Chlorobenzene	13	12	13	ND	ND	2J	16	1	16J
Xylene, Total	130	17	2J	ND	ND	ND	8	ND	ND
4-Chloroaniline	ND	ND	ND	ND	ND	ND	77	0.6	1J
bis (2-Ethylhexyl) phthalate	ND	ND	ND	ND	ND	ND	77	ND	6J
Cadmium	11.5	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	75	ND	1.5B	ND	ND	ND	ND	ND	ND
Iron	180,000	59,600	59,400	25,300	687	48.3BE	25,800	6,930	2,690
Lead	141	5.7	ND	ND	ND	ND	ND	ND	ND
Magnesium	63,600	37,900	34,200	50,500	49,600	51,200	91,900	91,900	15,000
Manganese	1,600	401	350	586	60	42.9	263	133	118

ALL VALUES expressed in ug/L = Parts Per Billion (ppb)  
 "ND" indicates that the compound was not detected by instrument  
 "J" denotes that the result is an estimated value.  
 "E" denotes that the value is estimated or not reported due to the presence of interferences  
 "B" denotes that the value is greater than or equal to the instrument detection limit, but less than the quantitation limit.

Table 2  
 Old Land Reclamation Site #915129, HWA  
 Groundwater & Leachate Sample Results: Volatile Organic Compounds (VOCs) Detected

COMPOUND	Groundwater (Class GA) Standard (In ppb)	GW-2B	GW-3A	GW-3B	GW-4A	GW-4B	GW-5A	GW-5B	GW-6A	GW-7A	GW-8A	GW-9A	Trip Blank	L1	L2	L3	OF
Bromomethane	* 5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5J	ND	ND	ND
Chloroethane	* 5.0	1J	ND	ND	4J	40J	4J	ND	ND	ND	18J	ND	ND	5J	12J	5J	ND
Methylene Chloride	* 5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2J	ND	10BJ	12BJ	11BJ	10BJ
Acetone	50.0	1BJ	4J	ND	ND	10J	8J	24J	1J	ND	ND	ND	ND	ND	10J	11J	49J
Carbon disulfide	50.0	ND	3J	ND	ND	ND	ND	12J	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	50.0	ND	1J	ND	ND	ND	2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	25J
Benzene	1.0	8J	1J	17J	ND	20J	1J	1000	ND	ND	ND	ND	ND	19J	ND	8J	ND
Toluene	* 5.0	1J	4J	12J	ND	ND	2J	300	ND	ND	ND	ND	1J	7J	ND	11J	62
Chlorobenzene	* 5.0	13	ND	52J	ND	68J	ND	13J	ND	2J	16J	ND	2J	5J	16J	16J	ND
Ethylbenzene	* 5.0	ND	ND	ND	ND	ND	ND	59J	ND	ND	ND	ND	ND	ND	ND	ND	14J
Xylene, Total	* 5.0	2J	6J	ND	ND	ND	1J	250	ND	ND	24J	ND	ND	35J	ND	ND	ND
Methyl tert-butyl ether	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29J
Cyclohexane	NI	ND	17	ND	74	ND	40	710	8J	ND	ND	1J	ND	ND	ND	ND	ND
Methylcyclohexane	NI	ND	16	ND	53	ND	20	230	ND	ND	ND	1J	ND	ND	ND	ND	ND
Isopropylbenzene	* 5.0	2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3.0	5J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7J	ND	ND	ND

ALL VALUES expressed in ug/L = Parts Per Billion (ppb)  
 "ND" indicates that the compound was not detected by instrument  
 "B" denotes that the compound was also found in laboratory blanks  
 "J" denotes that the result is an estimated value  
 \* The principal organic contaminant standard for groundwater of 5 ug/L applies to this substance.  
 Shaded values exceed Class GA Groundwater Standard

Table 3  
Old Land Reclamation Site #915129, IIWA  
Groundwater & Leachate Sample Results: Semi-Volatile Organic Compounds (SVOCs) Detected

COMPOUND	Groundwater(Class GA) Standard (In ppb)	GW- 2B	GW- 3A	GW- 3B	GW- 4A	GW- 4B	GW- 5A	GW- 5B	GW- 6A	GW- 7A	GW- 8A (RE)	GW- 8A 9A	OF	OF (DL)	L1	L1 (DL)	L2	L3
Biphenyl	NI	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzaldehyde	NI	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5J
Caprolactam	NI	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	NI	ND	ND	0.7J	ND	2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2J
N-Nitroso-di-N-propylamine	NI	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	NI	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	50.0	0.3J	ND	ND	ND	3J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7J
1,2-Dichlorobenzene	3.0	ND	ND	ND	ND	2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3.0	2J	ND	5J	ND	6J	ND	4J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	50.0	0.8J	ND	9J	ND	7J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	*5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	*5.0	ND	ND	ND	0.7J	2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis (2-Ethylhexyl) phthalate	5.0	2J	ND	1J	0.6J	1J	2J	1J	2J	6J	1J	3J	2J	2J	ND	ND	ND	170
Diethylphthalate	50.0	1J	ND	1J	0.4J	2J	ND	1J	ND	2J	0.5J	0.7J	0.7J	5J	2J	2J	0.9J	1J
Dimethylphthalate	50.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
di-n-Butylphthalate	50.0	ND	ND	0.4J	ND	ND	ND	0.6J	ND	1J	0.7J	0.6J	0.3J	1J	1J	0.6J	0.4J	0.4J
di-n-Octylphthalate	50.0	0.7J	ND	0.7J	ND	1J	ND	0.4J	ND	ND	ND	ND	0.3J	ND	ND	ND	0.3J	ND
Carbazole	NI	1J	ND	19	ND	5J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5J
2,4-Dinitrotoluene	* 5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	20.0	0.6J	ND	10	ND	5J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	50.0	ND	ND	2J	ND	0.9J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2J
Benzofluoranthracene	0.002	ND	ND	0.7J	ND	0.4J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	0.002	ND	ND	0.4J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50.0	ND	ND	4J	ND	2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	50.0	0.6J	ND	10	ND	4J	ND	ND	ND	1J	0.3J	0.4J	ND	2J	1J	1J	0.7J	1J
Naphthalene	NI	ND	ND	39	ND	28	ND	2J	ND	ND	1J	1J	ND	130E	8J	8J	0.4J	0.6J
Phenanthrene	50.0	1J	ND	16	ND	8J	ND	0.3J	ND	0.6J	2J	2J	ND	2J	2J	ND	ND	0.4J
Pyrene	50.0	ND	ND	3J	ND	0.9J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol**	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol **	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol **	1.0	ND	ND	1J	ND	1J	ND	ND	ND	ND	0.4J	0.6J	ND	22	ND	ND	ND	ND
2-Methylphenol **	1.0	ND	ND	ND	ND	0.3J	ND	ND	ND	ND	0.4J	0.6J	ND	43	ND	ND	ND	1J
4-Methylphenol **	1.0	ND	ND	ND	ND	ND	ND	2J	ND	ND	3J	ND	ND	48	ND	ND	ND	0.4J
4-Nitrophenol **	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol **	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol **	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	6J	ND	ND	41	ND	ND	ND	ND

ALL VALUES expressed in ug/L = Parts Per Billion (ppb)  
 "DL" indicates that sample was re-analyzed at a diluted concentration  
 "B" denotes that the compound was also found in laboratory blanks  
 "NI" denotes that the individual Soil Cleanup Objective is not indicated in TAGM 4046 tables  
 \* The principal organic contaminant standard for groundwater of 5 ug/L applies to this substance.  
 \*\* Refer to standards for Phenolic compounds (total phenols)  
 "RE" indicates that the sample was reanalyzed.  
 "ND" indicates that the compound was not detected by instrument  
 "J" denotes that the result is an estimated value  
 Shaded values exceed Class GA Groundwater Standard



Table 4  
 Old Land Reclamation Site #915129, IIWA  
 Groundwater & Leachate Sample Results: Pesticides/PCBs (Aroclors) Detected

COMPOUND	Groundwater(Class GA) Standard (In ppb)	GW-2B	GW-3A	GW-3B	GW-4A	GW-4B	GW-5A	GW-5B	GW-6A	GW-6A RE	GW-7A	GW-8A	GW-9A	L1	L2	L3	OF
delta-BHC	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05IP	ND	ND	ND	ND	ND
4,4'-DDD	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.10J
4,4'-DDT	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.055IP
Endrin	Non-Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.11	ND	ND	ND	ND	ND
Heptachlor	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	ND	ND	ND	ND	ND

ALL VALUES expressed in ug/L = Parts Per Billion (ppb).

Shaded Values exceed Class GA Standard

Bracketed Values exceed Class C Stream Standard

"ND" indicates that the compound was not detected by instrument

"B" denotes that the compound was found in associated blank as well as in the sample.

"J" denotes that the result is an estimated value.

"P" denotes that the target analyte exhibited a >25% difference in reported concentration between the two GC columns during analysis. The lower value is reported and flagged with a "P".

Table 5  
Old Land Reclamation Site #915125, IIWA  
Groundwater & Leachate Sample Results: Inorganic Metals

ANALYTE	Groundwater (Class GA) Standard in ug/L	GW-2B	GW-3A	GW-3B	GW-4A	GW-4B	GW-5A	GW-5B	GW-6A	GW-7A	GW-8A	GW-9A	OF	L1	L2	L3
Aluminum	NI	98.4B	76.4B	1150	69.4B	82.6B	140B	90.5B	40.9B	37.0B	119B	276	1,400	236	825	319
Antimony	3.0	7.5B	5.6B	ND	5.2B	4.7B	5.3B	7.6B	4.8B	ND	10.3B	ND	9.6B	8.0B	ND	3.2B
Arsenic	25.0	ND	ND	4.0B	ND	ND	ND	ND	ND	ND	3.1	ND	ND	ND	3.1B	ND
Barium	1,000	401	76.3B	558	92.3B	556	66.3B	615	78.8B	54.2B	340	217	75.2B	677	604	903
Beryllium	3.0 (Guidance Value)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.96B	1.1B	0.91B	1.2B
Cadmium	5.0	ND	ND	ND	ND	ND	0.37B	ND	ND	ND	ND	ND	1.0B	ND	ND	ND
Calcium	NI	180,000	122,000	226,000	59,700	253,000	121,000	290,000	58,800	94,200	334,000	134,000	128,000	236,000	232,000	235,000
Chromium	50.0	1.5B	ND	6.7B	ND	5.8B	9.1B	3.1B	ND	ND	5.0B	1.7B	6.2B	17.7	4.0B	5.4B
Cobalt	NI	2.1B	ND	5.2B	ND	3.8B	1.1B	4.4B	ND	ND	3.5B	ND	0.90B	3.4B	6.1B	3.7B
Copper	200	1.1B	ND	2.4B	ND	ND	ND	ND	ND	ND	ND	1.4B	123	49.7	11.0B	ND
Iron	300 *	59,400	20,000	46,900	506E	48,100E	27,000E	57,000E	48,318E	2,690E	65,618E	724E	3,170	43,500	41,900	40,600
Lead	25.0	ND	ND	7.3	ND	2.4B	ND	2.7B	ND	ND	ND	ND	121	2.6B	21.6	9.8
Magnesium	35,000 (Guidance Value)	34,200	72,200	66,400	54,800	85,000	106,000	77,600	51,200	15,000	192,000	35,500	22,500	81,000	72,700	80,200
Manganese	300*	350	60.9	758	54.8	728	43.7	772	42.9	118	193	97.8	330	693	721	706
Mercury	0.7	ND	0.232B	0.032B	0.058B	ND	ND	0.032B	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	100	ND	ND	5.4B	ND	ND	ND	ND	ND	ND	7.9B	ND	29.9B	6.0B	8.3B	6.2B
Potassium	NI	14,900	18,200	62,300	61,200	70,100	76,000	52,200	28,000	5,800	53,900	3,850B	12,100E	183,000	68,800E	192,000E
Selenium	10.0	ND	ND	ND	6.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	50.0	ND	ND	ND	0.94B	1.1B	ND	0.99B	ND	ND	0.95B	1.6B	ND	ND	ND	ND
Sodium	20,000	396,000	114,000	101,000	229,000	118,000	479,000	73,000	119,000	14,800	1,420,000	32,500	309,000	296,000	87,700	314,000
Thallium	0.50 (Guidance Value)	ND	ND	ND	6.9B	ND	ND	ND	ND	ND	6.1B	ND	ND	ND	ND	ND
Vanadium	NI	ND	ND	3.8B	ND	1.3B	1.3B	0.82B	ND	ND	6.6B	1.4B	3.2B	1.0B	2.8B	1.0B
Zinc	2,000	15.4B	3.4B	36.1	5.4B	10.6B	3.8B	10.6B	4.9B	3.6B	8.0B	11.8B	246	8.7B	23.1	18.2B

ALL VALUES expressed in ug/L = Parts Per Billion (ppb).  
 "NI" denotes that no Standard is indicated.  
 "B" denotes that the value is greater than or equal to the instrument detection limit, but less than the quantitation limit.  
 "DL" denotes that sample was re-analyzed at a diluted concentration.  
 "ND" denotes that the compound was not detected by instrument.  
 "E" denotes that the value is estimated or not reported due to the presence of interferences.  
 \* Iron and Manganese Groundwater Standard is based upon total individual value or sum of both analytes.  
 Shaded Values exceed Class GA Standard.

**Table 6**  
**Old Land Reclamation Site #915129, IJWA**  
**Soil Sample Results: Volatile Organic Compounds (VOCs) Detected**

COMPOUND	TAGM 4046 Recommended Soil Cleanup Objective (In ppb)	S1	S1 (RE)	S1 (RE) DL	S2	S3	82 (GW-8A)
Bromomethane	NI	ND	ND	ND	ND	ND	ND
Methylene Chloride	100	5BJ	ND	ND	11BJ	8BJ	4B
Acetone	200	ND	ND	ND	4BJ	5BJ	15B
Carbon disulfide	2,700	ND	2J	ND	ND	ND	ND
2-Butanone	300	3J	ND	1,300BDJ	ND	ND	ND
Benzene	60	ND	600E	2,200DJ	ND	ND	ND
Toluene	1,500	2J	2,100E	48,000D	2BJ	ND	ND
Chlorobenzene	1,700	ND	ND	ND	15	3J	ND
Ethylbenzene	5,500	ND	2,900E	29,000D	ND	ND	ND
Xylene, Total	1,200	ND	8,500E	210,000D	ND	ND	4J
Methylcyclohexane	NI	4J	1,200E	ND	ND	ND	ND
Isopropylbenzene	NI	ND	490E	80,000D	2J	2J	ND
1,4-Dichlorobenzene	8,500	ND	ND	ND	7J	2J	ND
1,2-Dichlorobenzene	7,900	ND	ND	ND	2J	ND	ND
<b>TOTAL VOCs in ug/Kg</b>	<b>Total VOCs &lt; 10,000ppb</b>	<b>14</b>	<b>15,992</b>	<b>370,300</b>	<b>43</b>	<b>20</b>	<b>23</b>

ALL VALUES expressed in ug/Kg = Parts Per Billion (ppb)  
 "NI" denotes that Soil Cleanup Value is Not Indicated in TAGM 4046 tables.  
 "RE" denotes that sample was reanalyzed.  
 "DL" denotes that sample was reanalyzed at a secondary dilution factor.  
 "ND" denotes compound was Not-Detected.  
 "B" denotes that the compound was found in associated blank as well as in the sample.  
 "E" denotes that concentration exceeds the calibration range of the instrument.  
 "D" denotes that compound was identified in analysis at the secondary dilution factor.  
 "J" denotes that the result is an estimated value.  
 Shaded Values are those in exceedance of TAGM 4046 Soil Cleanup Guidance Value.

Table 7  
Old Land Reclamation Site #915129, IIWA  
Soil Sample Results: Semi-Volatile Organic Compounds (SVOCs) Detected

COMPOUND	TAGM 4046 Recommended Soil Cleanup Objective (in ppb)	S1	S2	S2 RI	S3	S3 RI	41 (GW-5B)
Benzaldehyde	NI	ND	288J	298J	428J	458J	ND
Acetophenone	NI	ND	89J	94J	83J	83J	ND
4-Methylphenol	900	ND	ND	ND	ND	ND	400J
N-Nitrosodiphenylamine	NI	ND	ND	ND	24J	24J	ND
Dibenzofuran	6,200	180J	40J	41J	40J	40J	370J
bis (2-Ethylhexyl) phthalate	50,000*	6,800	200J	210J	170J	180J	6,800B)
di-n-Butylphthalate	8,100	190J	110J	100J	330J	330J	7,200J
di-n-Octylphthalate	50,000*	600J	35J	50J	49J	58J	230J
Acenaphthylene	41,000	ND	ND	ND	24J	27J	260J
Acenaphthene	50,000*	360J	66J	63J	63J	66J	650J
Anthracene	50,000*	600J	86J	84J	88J	90J	840J
Carbazole	NI	330J	63J	65J	64J	63J	370J
Benzo(a)anthracene	224 or MDL	2,100J	300J	310J	440J	450J	2,400J
Benzo(b)fluoranthene	1,100	3,000	450J	480	560	680	2,600J
Benzo(k)fluoranthene	1,100	1,500J	330J	290J	510J	400J	1,800J
Benzo(g)pyrene	61 or MDL	2,000J	280J	270J	370J	370J	2,200J
Indeno(1,2,3-c,d)pyrene	3,200	1,600J	110J	97J	160J	140J	730J
Dibenzo(a,h)anthracene	14 or MDL	640J	46J	45J	70J	64J	280J
Chrysene	400	2,500	360J	350J	500J	490J	2,400J
Fluoranthene	50,000*	5,400	730	690	910	840	5,300J
Fluorene	50,000*	580J	64J	64J	60J	63J	750J
Naphthalene	13,000	8,600	13J	15J	20J	21J	520J
2-Methylnaphthalene	36,400	12,000	ND	ND	ND	ND	ND
Biphenyl	NI	160J	ND	ND	ND	ND	ND
Phenanthrene	50,000*	3,800	470	440J	430J	440J	3,600J
Pyrene	50,000*	5,600	740	780	1000	1000	4,200J
Butylbenzylphthalate	50,000*	520J	19J	21J	28J	28J	10,000
Benzo(g,h,i) Perylene	50,000*	1,900J	77J	72J	120J	110J	520J
Pentachlorophenol	1,000 or MDL	ND	ND	ND	ND	42J	ND
Phenol	30 or MDL	ND	26J	26J	24J	22J	ND

ALL VALUES expressed in ug/kg = Parts Per Billion (ppb)  
 "ND" denotes that Individual Soil Cleanup Objective is not indicated in TAGM 4046 tables  
 \* Per TAGM 4046: Individual Semi-YOCs <50,000 ppb.  
 "MDL" denotes Method Detection Limit.  
 "RI" denotes that the Sample was Reanalyzed  
 "J" denotes that the result is an estimated value  
 "B" denotes that the compound was found in associated blank as well as in the sample  
 Shaded Values are those in exceedance of TAGM 4046 Soil Cleanup Guidance Value

**Table 8**  
**Old Land Reclamation Site #915129, IIWA**  
**Soil Sample Results: Pesticides/ PCBs (Aroclors) Detected**

COMPOUND	TAGM 4046 Recommended Soil Cleanup Objective (In ppb)	S1	S2	S3
4,4' -DDD	2,900	ND	ND	4.4J
4,4' -DDT	2,100	ND	ND	6.0P
Endrin	100	ND	ND	1.2JP
PCB-1242	1,000 (Surface)/ 10,000 (Subsurface)	40J	36JP	ND
PCB-1254	1,000 (Surface)/ 10,000 (Subsurface)	130	19JP	55P

ALL VALUES expressed in ug/Kg = Parts Per Billion (ppb)

"ND" denotes that compound was Not-Detected

"J" denotes that the result is an estimated value

"P" denotes that the target analyte exhibited a >25% difference in concentration reported between the two GC columns. Lower value is reported and flagged with a "P".

Table 9 Old Land Reclamation Site #915129, IIWA Soil Sample Results: Inorganic Metals					
ANALYTE - in mg/Kg	TAGM 4046 Recommended Soil Cleanup Objective (In ppm)	S1	S2	S3	41 (GW-SB)
Aluminum	SB	NA	5420	10,100	NA
Antimony	SB	5.3B	0.86BN	1.3BN	46.7*
Arsenic	7.5 or SB	5.6	4.6	4.3	11.3*
Barium	300 or SB	120	70.3*	112*	268N*
Beryllium	0.16 (HEAST) or SB	0.38B	0.37B	0.62B	0.80B
Cadmium	10	0.87	ND	ND	28.0N*
Calcium	SB	NA	17,100E	39,300E	NA
Chromium	50	15.0E	19.1N*	19.5N*	103NE*
Cobalt	30 or SB	2.4B	4.0B	7.0B	11.0B
Copper	25 or SB	67.6	21.1	60.5	203*
Iron	2,000 or SB	NA	20,400E	23,300E	NA
Lead	SB**	80.3	73.1NE*	171NE*	2,200E*
Magnesium	SB	NA	4,950	16,000	NA
Manganese	SB	NA	1,40N	265N	NA
Mercury	0.1	0.374	0.193N	0.170N	0.750N
Nickel	13 or SB	13.6E	18.1*	19.5*	39.9
Potassium	SB	NA	835	2,180	NA
Selenium	2 or SB	0.80	2.0	2.0	4.5
Silver	SB	0.69B	ND	ND	4.1*
Sodium	SB	NA	113B	215B	NA
Thallium	SB	ND	ND	ND	1.6B
Vanadium	150 or SB	4.5B	11.9	22.2	32.1
Zinc	20 or SB	203E	86.8E	142 E	7,400*
Tin	NI	32.2	NA	NA	83.7*

ALL VALUES expressed in mg/Kg = Parts Per Million (ppm)

"SB" denotes Site Background level

"NA" denotes that the Analyte was not analyzed for in chosen analytical method

"ND" denotes that compound was Not-Detected

"NI" denotes that value is Not Indicated in TAGM 4046

"N" indicates spike sample recovery is not within the quality control limits

"E" indicates a value estimated or not reported due to the presence of interferences

"HEAST" indicates a value determined by reference to the USEPA HEAST database

\* Indicates analysis is not within the quality control limits

\*\* Indicates that analyte has a Soil Cleanup Objective determined by evaluation of background levels, typically ranging from 200-500 ppm near highways and in metropolitan and suburban areas.

Shaded Values are those in exceedance of TAGM 4046 Soil Cleanup Guidance Value

Table 10  
Old Land Reclamation Site #915129, IIWA  
Groundwater/ Leachate & Soil Sample Results: Wet Chemistry Analysis (Cyanide, TRPH and pH)

Analyte - Units of Measurement	2B	3A	3B	4A	4B	5A	5B	6A	7A	8A	9A	OF	L1	L2	L3	S2	S3	41
Cyanide, Total (as CN) in mg/L (ppm)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.012	ND	ND	NA
Total Recoverable Petroleum Hydrocarbon in mg/L (ppm)	NA	NA	NA	NA	NA	NA	ND	2.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Leachable pH in Standard Units	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.05	7.11	6.70

"ND" denotes that parameter was Not Detected by analytical instrument.  
 "NA" denotes that parameter is Not Applicable for that Sample.

Table 11 - Monitoring Well Groundwater Elevations - Old Land Reclamation Site #915129, IIWA

Well ID:	Top of Inside Casing Elev.	February 28, '01	January 19, '02	January 28-29, '02	February 07, '02	February 14, '02	February 22, '02	February 28, '02	March 14, '02	April 18, '02	May 21, '02
GW-2A	655.81'	NR*	633.94'*	NR*	637.24**	NR*	NR*	NR*	NR*	NR*	NR*
GW-2B	649.75'	627.34'	626.67'	NR	630.53'	NR	NR	NR	629.89'	NR	630.16'
GW-3A	650.96'	NC	620.18'	620.59'	621.36'	NR	NR	NR	621.01'	620.76'	621.01'
GW-3B	650.98'	NC	620.51'	621.69'	622.55'	NR	NR	NR	621.90'	621.50'	621.93'
GW-4A	644.74'	NC	619.80'	619.93'	621.28'	NR	NR	NR	621.19'	620.99'	621.20'
GW-4B	645.68'	NC	623.15'	623.63'	625.06'	NR	NR	NR	624.24'	624.12'	624.54'
GW-5A	642.14'	NC	NC	620.88'	621.80'	NR	NR	NR	621.44'	621.24'	621.75'
GW-5B	642.24'	NC	625.22'	625.67'	626.35'	NR	NR	NR	626.11'	626.03'	626.05'
GW-6A	627.94'	612.49'	615.98'	NR	613.73'	NR	NR	NR	613.14'	612.97'	613.08'
GW-7A	628.79'	620.63'	620.56'	NR	621.13'	NR	NR	NR	621.09'	621.05'	621.12'
GW-8A	638.26'	NC	NC	606.30'	594.32	589.29'	586.09	588.54'	NR	NR	597.69'
GW-9A	635.12'	NC	NC	613.08	614.04'	NR	NR	614.08'	614.34'	NR	614.35'
Creek (From Top of Pin at edge)	NA/ Pin Elevation = 621.71'	NC	NC	618.96'	618.56'	NR	NR	NR	NR	618.46	618.46'

\* GW-2A Collapsed at a depth making sampling impossible. Elevations were read on two dates but it is unknown as to whether or not this is a true bedrock groundwater elevation.

"NR" denotes that elevation was not read on this date.

"NC" denotes that monitoring well was not completed at date of this reading.

"NA" denotes that column delimiter is not applicable to this elevation point.



APPENDIX A

New York State Department of Environmental Conservation



## Division of Environmental Remediation



**OLD LAND RECLAMATION SITE  
REGISTRY #915129  
CHEEKTOWAGA (T), ERIE COUNTY**

**IMMEDIATE INVESTIGATION  
WORK ASSIGNMENT (IIWA)**

**November, 21, 2001**

*New York State  
Department of Environmental Conservation  
GEORGE E. PATAKI, Governor  
ERIN M. CROTTY, Commissioner  
GERALD MIKOL, Regional Director*

*OLD LAND RECLAMATION SITE, (REGISTRY #915129)*

*CHEEKTOWAGA (T), ERIE COUNTY*

*IMMEDIATE INVESTIGATION WORK ASSIGNMENT (IIWA)*

*PROJECT WORK PLAN*

*November 21, 2001*

**I. SITE HISTORY**

The Old Land Reclamation Site ( the Site) is located in the Town of Cheektowaga in Erie County, New York (see Figure 1). Due to some citizen complaints regarding the nearby Buffalo Crushed Stone (BCS) quarry, followed by inquiries into the history and operation of the Schultz , Land Reclamation and the Old Land Reclamation landfills, the Site has been under recent review by the Division of Environmental Remediation (DER). The DEC's Division of Solid and Hazardous Materials (DSHM) has been responsive to this issue also, as the Schultz and Land Reclamation landfills have been reviewed under their program's authority. DER has been involved in past investigations of the Old Land Reclamation Site (see Registry Report, attached) and has been monitoring leachate seeps and groundwater quality at this site in recent years. Health concerns of local residents were brought to the New York State Department of Health's attention as well. Due to Public concerns over unknown exposure risks arising from potentially contaminated groundwater in bedrock near the proximal landfills, the DEC is prepared to undertake this IIWA to install monitoring wells (MWs) that may be used to evaluate groundwater quality in bedrock on the Southern side of Cayuga Creek, and at the Southern side of the Site, North of Cayuga Creek. Overburden wells are proposed as well, to evaluate groundwater which is expected to be present in soils above the bedrock at the Southern side of the Site. Sediment samples from a ditch along the joint border of the Land Reclamation and the Old Reclamation Sites will be taken to investigate allegations that contaminants are present in this drainage pathway. Additional samples may be taken from the bottom of a ditch along the Eastern side of the Old Land Reclamation Site to assess sediment quality. Leachate samples will be collected from the exposed face of the landfill as identified and analyzed for parameters consistent with those chosen for Groundwater samples

**II. SITE DESCRIPTION**

The Site exists East of the BCS quarry and the Schultz and Land Reclamation landfills, and is bordered by Broadway on the North, two (2) commercial properties to the East, Cayuga Creek on the South Side and an abandoned railway along the West. (See Figure 2). Three (3) bedrock wells and one (1) overburden well currently exist on the Site, but the northernmost bedrock well was found to be obstructed during a February 2001 groundwater sampling event conducted by the NYSDEC. Although groundwater monitoring wells exist along the Southern boundaries of the other two landfills, none are known to exist on the South side of Cayuga Creek. It should be noted that bedrock is shallow and is readily exposed along the Creek's bed, often rising above the water level in the Creek. Most residences are built above the Creek's flood plain which is fairly wide on either side of the creek south of where the landfills are sited. Terrain is flat in the flood plain areas and is densely foliated with tree and shrub growth. Access to this area is difficult at best for heavy equipment and would require extensive clearing and grubbing, if not actual roadbed construction, to accommodate vehicular access.

### **III. OBJECTIVES OF THE INVESTIGATION**

The objectives of this IWA project are:

- Define and evaluate groundwater quality in the bedrock aquifer at south side of Cayuga Creek.
- Define and evaluate groundwater quality in the overburden aquifer and in bedrock aquifer at south side of Old Land Reclamation Site.
- Plot Groundwater flow direction.
- Define and evaluate sediment quality in ditches along the Western and Eastern edges of the Old Land Reclamation Site.
- Locate and evaluate leachate seeps for potential impacts to Cayuga Creek.

### **IV. SCOPE OF WORK.**

This IWA consists of primarily five separate elements. These elements are: Site Stakeout and Utility Location, Sub-surface Soil Sample screening and collection (continuous Split-Spoon sampling during monitoring well construction), Monitoring Well Installation, Groundwater Sampling Element, Ditch Sediment and Leachate Sampling . The primary focus of the IWA project is to determine if bedrock groundwater has been contaminated by documented landfill constituents. To attain this information the Standby Work Assignment Contractor (SWAC) or their subcontractor will install and develop up to three - 2" diameter groundwater monitoring wells into the overburden aquifer (if present) above the bedrock, and up to five - 2" diameter groundwater monitoring wells into the bedrock aquifer, all at a final depth to be determined in the field by NYSDEC personnel. All bedrock-well borings and installations will include continuous split-spoon sampling for soil evaluation and analysis. In addition, up to four discreet samples will be taken from the ditch bottom along the Western edge and up to four will be taken from the ditch bottom along the Eastern edge of the Old Land Reclamation Site by NYSDEC personnel. Leachate samples may be taken (by NYSDEC staff) from leachate seeps along the landfill face that are located during this work assignment. All sample bottles and laboratory analyses will be provided by NYSDEC. All data interpretations associated with this program (and its elements) will be conducted using NYSDEC equipment and staff. Due to the possible presence of Hazardous Wastes, personnel for the SWAC and any subcontractors involved with intrusive work will be OSHA 40 Hour trained for Hazardous Site Work and will adhere to appropriate Health and Safety practices.

#### **Site Stakeout and Utility Location**

Prior to initiation of off-site work, the Department will obtain access to properties adjacent to the noted sites, as needed. Prior to any work initiation, the Department will meet with the SWAC at the Site for a walkover to review Site conditions and potential Monitoring Well locations. At least 5 days prior to the start of the intrusive work, the SWAC will contact affected property owners prior to site entry and

arrange for delineation of all underground utilities in work areas. As at least two of the bedrock well locations will be in the subdivision area South of Cayuga Creek, it is required that monitoring well location (pavement or lawn) and work hours be set to minimize impact to residents.

#### Subsurface Soil Sampling Element

Subsurface soil materials will be collected during the advance of split-spoon sampling equipment during the bedrock monitoring well installations. Subsurface soil sampling will follow the procedures described in section 4.6.4.1 of the attached "New York State Department of Environmental Conservation, Superfund Standby Contract, Program Quality Assurance Project Plan. Contract no. D002472, April 1994, ABB Environmental Services". Split-spoon samplers will be adequately decontaminated between each sample to insure proper sample isolation. The extracted subsurface soil materials will be described and logged with respect to their geologic character, features, and properties. The extracted subsurface soil materials will be screened visually for signs of obvious contamination. Additionally the materials will be screened for the presence of volatile organic chemicals (VOCs) with a calibrated flame-ionization or photo-ionization instrument that has been equipped with an 11.7 eV bulb-tip. All or some part of any subsurface soil interval extracted from a specific monitoring point may be collected as a subsurface soil sample for chemical analysis at the discretion of the NYSDEC representative. Up to fifty (50) (maximum) subsurface soil samples may be collected for chemical analysis during this IWA project. Selected samples will be analyzed for total VOCs (Volatile Organic Compounds), TAL metals, Pesticides and PCBs, and/or SVOCs (Semi-Volatile Organic Compounds) as determined by the NYSDEC representative. The SWAC will provide all equipment necessary for the collection of the samples, except for that which the NYSDEC will provide (e.g.: glass sample bottles and coolers). The number of subsurface soil samples collected for chemical analysis from any one monitoring point is at the discretion of the NYSDEC representative. The selection of subsurface soil materials for submission as a subsurface soil sample will be made at the discretion of the NYSDEC representative and based upon:

- a.) subsurface soil materials that show visual signs of contamination;
- b.) subsurface soil materials that cause a sustained response above the measured background response on a calibrated flame or photo ionization screening instrument;
- c.) pre-determined sampling depth or;
- d.) a combination of these situations.

After the subsurface soil materials from a particular interval have been described/logged/screened and all subsurface soil samples have been collected for chemical analysis (as applicable), the remaining subsurface soil materials may be discarded at the direction/discretion of the NYSDEC representative. If any of the remaining subsurface soil materials show visual signs of contamination, cause a sustained response above the measured background response on a calibrated flame or photo-ionization screening instrument, display hazardous waste characteristics (by lab analysis), or a combination of these situations, those materials should be retained for proper disposal *to be provided by the SWAC*.

The sampling program and its associated elements will be accomplished with the assistance of the designated Standby Work Assignment Contractor and approved subcontractors as applicable and appropriate. Details of the work distribution for this program are presented in the 'Notice to Proceed' letter issued for this IWA project unless otherwise specified. Note that all data interpretations associated with this program (and its elements) will be conducted using NYSDEC equipment and staff.

#### Groundwater Monitoring Well Installation

A total of up to five (5) soil borings will be completed as bedrock monitoring wells, two of which are to be located on Town of Cheektowaga property to be determined by the NYSDEC representative and the SWAC in a pre-work Site walk over. The remaining three (3) bedrock monitoring wells are to be sited on the Southern side of the Old Land Reclamation Site. The three (3) overburden monitoring wells are to be installed either alone or as part of a couplet with the bedrock wells installed on the Old Land Reclamation Site. If part of a couplet, split-spoon sampling will not be required of the second well installation of the pair. Soil borings will be completed using appropriate well drilling equipment to properly install a bedrock-aquifer monitoring well. "Telescopic" well installation (w/ appropriate casing) may be required to insure that contaminants in the soil above the bedrock interface do not migrate into any bedrock-aquifers which may not have been contaminated. The soil borings/ bedrock corings at the selected monitoring well locations will be completed with a riser cover (or a flush-mount casing to be used in pavement/ lawn locations) with locking covers by the SWAC or their subcontractor under the supervision of the SWAC geologist. The exact depth of the remaining wells will be determined by information provided by the initial well installation. In any case, these well installations will extend to competent bedrock, with the exact depth and screened interval dependent on the water table and bedrock stratigraphy. The total depth of these wells will not exceed competent bedrock. Prior to constructing these wells, the boreholes will be allowed to stabilize for a limited time to confirm the presence of water and to allow the water to equilibrate. The monitoring well will be constructed using 2-inch ID threaded, flush-joint, Schedule 40 PVC, with appropriate lengths of 0.010-inch machine slotted well screens. The well screen will be placed to intercept groundwater. It is anticipated that these wells be screened from the initial bedrock layer to the point of competent bedrock. Well installation may also be made to intercept possible overburden groundwater that may be encountered above the bedrock. The overburden well installations may require minor coring (approximately one foot) into the top of the initial bedrock layer to provide a sump for interface groundwater collection. All final screen placements are to be determined by the NYSDEC representative.

The monitoring well installation and development will follow the procedures described in section 4.7 of the attached "New York State Department of Environmental Conservation, Superfund Standby Contract, Program Quality Assurance Project Plan, Contract no. D002472, April 1994, ABB Environmental Services". "ASTM Method D5092-90" and "ASTM Method D5784-95" are also to be referenced as common-practice guidance. All wells will be finished as riser-cased wells (except for flush-mounted casings in pavement locations) with appropriate, locking protective covers. All boring logs will be completed by the SWAC geologist. These logs, as well as any field notes, will be a deliverable quantity of this work assignment. All disturbed areas will be returned to pre-site conditions. Any damage to off-site property or on-site property as deemed necessary by the NYSDEC representative will be corrected at the expense of and by the SWAC. All provisions for drilling water and drilling wastewater collection and disposal is to be arranged at the SWAC's (or their subcontractor's) expense. If monitoring well development water disposal is required, the SWAC will arrange for appropriate transportation and disposal.

All work involving the monitoring well installation will adhere to health and safety procedures for well installations in accordance with the generic health and safety standards established by the Standby Work Assignment Contractor.

#### Groundwater Sampling Element

At a minimum, a single groundwater sample will be collected for chemical analysis from each of the groundwater monitoring wells installed during this IWA project in order to monitor the water quality within the appropriate aquifers. Prior to sampling, the SWAC will measure the static water level with reference to the ground surface and well casing, and record it along with the time and date for future use in the generation of a groundwater map.

The SWAC will then purge groundwater from the installed monitoring point until the pH, specific conductivity, temperature, and turbidity of the extracted water have stabilized (IE: parameters are consistent during successive volumes purged). All parameters measured during this process will be recorded along with the time, date, and volume of water extracted. Development and purge waters will be collected into DOT shippable drums with appropriate disposal to be arranged by the SWAC as necessary. Once the given parameters have stabilized (at the discretion of the NYSDEC representative), a portion of the groundwater will be collected for chemical analysis by the NYSDEC representative. Each of the samples will be analyzed for TAL metals and cyanide, semi-volatile organic compounds (B/N/As), volatile organic compounds, pesticides/ PCBs and total petroleum hydrocarbons in accordance with their respective EPA methods. All groundwater samples collected during this IWA project will be analyzed by a NYS DOH ELAP certified laboratory selected by the NYSDEC representative. All sample bottles and laboratory analyses will be provided by the NYSDEC. All data interpretations associated with this program (and its elements) will be conducted using NYSDEC equipment and staff.

After the applicable groundwater sample collection is complete and all down-probe measurements have been made and recorded, all retrievable equipment will be removed from the monitoring point and either discarded or cleaned, as appropriate, using approved methods.

#### Sediment/ Leachate Sampling Element

Sediment sampling at the Western and Eastern property lines of Old Land Reclamation will serve a two-fold purpose. 1) To attempt to replicate the sampling of purported areas of contamination in the Western ditch which have been reported to the NYSDEC, and 2) To examine sediment quality in locations along the two ditches that have not previously been sampled. Observation of ditch flow will give the best indication as to where sedimentation is occurring and provide the best point for sampling. Sample locations, depths and number collected will be determined by NYSDEC outside of the IWA work prescribed to the SWAC or their subcontractors. All proposed sediment samples will be taken from 0"-3" depth using new plastic sampling scoops or a stainless-steel bucket auger that will be appropriately decontaminated prior to and between each use. Samples will be submitted for VOCs, SVOCs, TAL metals/cyanides and pesticides/ PCBs analyses. Additional augering to a depth of 2'-3' may be attempted to ascertain underlying stratigraphy and observe any potential areas of differing contamination levels, if any. Additional samples will be taken at the NYSDEC representative's discretion.

Leachate samples will, likewise at the NYSDEC representative's discretion, be selected by visual observation of seeps from the landfill face that are relevant to potential contaminant releases. Samples will be analyzed for the same parameters selected for the groundwater sampling element of this IWA.

Figure 1  
Old Land Reclamation - IIWA  
Scope of Work  
Project Location

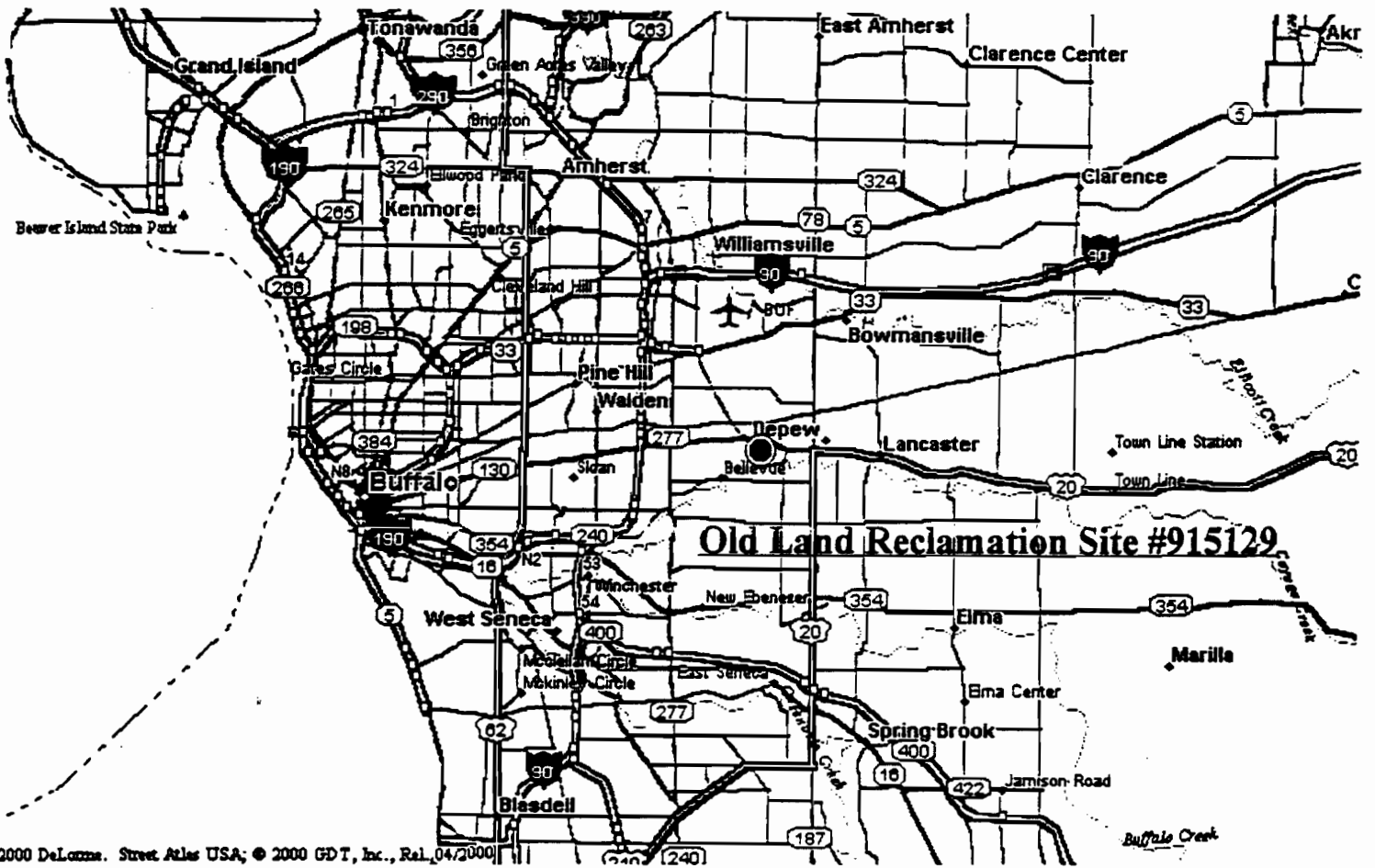
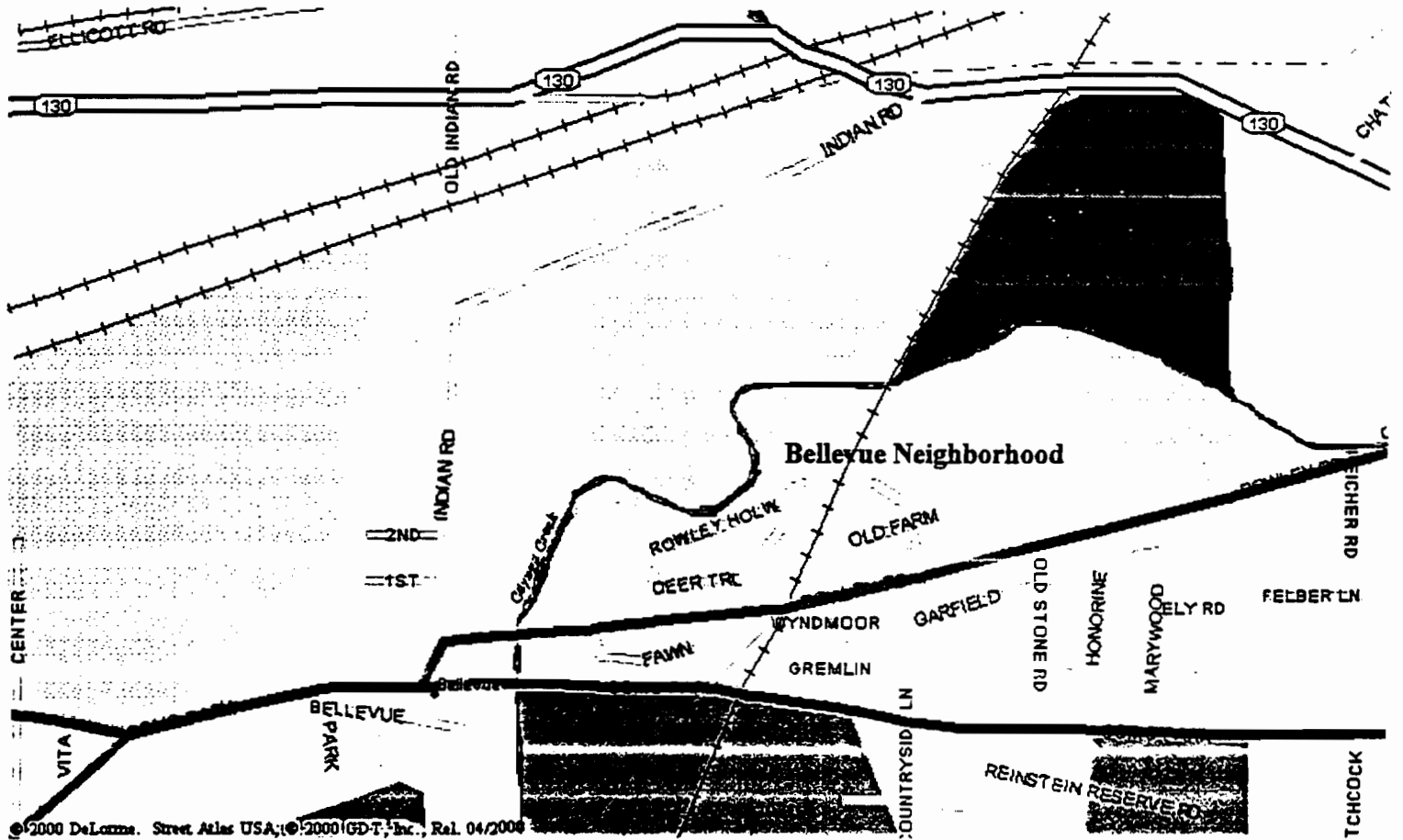


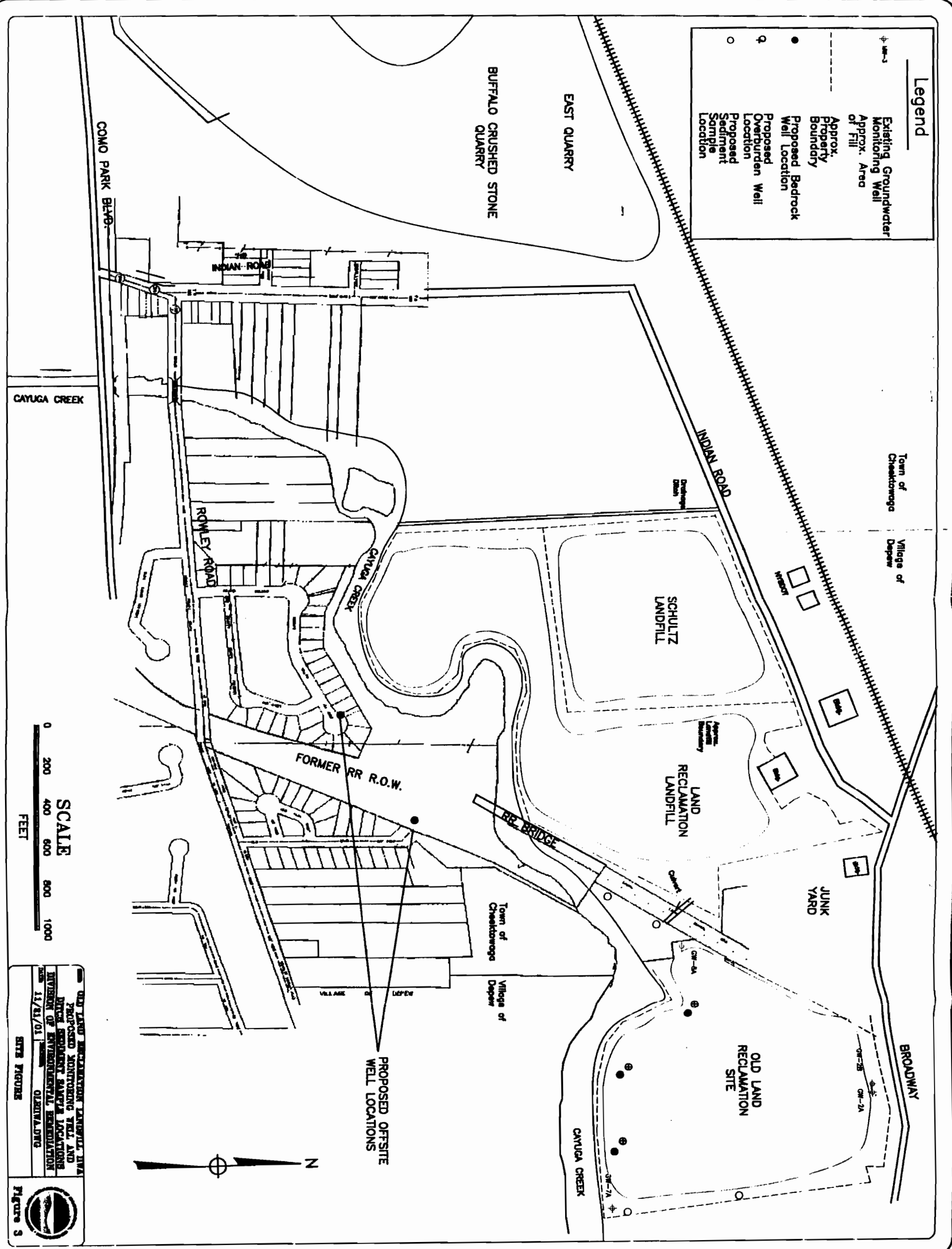


Figure 2  
 Old Land Reclamation - IWA  
 Scope of Work  
 Site Map



**Legend**

- ⊕ GW-3 Existing Groundwater Monitoring Well
- Approx. Area of Fill
- - - - - Approx. Property Boundary
- Proposed Bedrock Well Location
- Proposed Overburden Well Location
- Proposed Sediment Sample Location



**SCALE**  
 0 200 400 600 800 1000  
 FEET

OLD LAND RECLAMATION LANDFILL, IWA  
 PROPOSED MONITORING WELL AND  
 DRILL EQUIPMENT SAMPLE LOCATIONS  
 DIVISION OF ENVIRONMENTAL REMEDIATION  
 11/11/01  
 OL201VAL.DWG  
 SITE FIGURE



Figure 3

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■ **Attachments**

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NEW YORK STATE  
DEPARTMENT OF  
ENVIRONMENTAL CONSERVATION  
SUPERFUND STANDBY CONTRACT

PROGRAM QUALITY ASSURANCE PROJECT PLAN

CONTRACT NO. D002472

APRIL 1994

ABB Environmental Services

- sample type and depth
- soil description (using Unified Soil Classification System [USCS] (ASTM-D-2488-84) and ABB-ES' soil description procedures in Appendix A)
- date and time of sampling
- project and sample designations
- sampler identification
- analyses requested

For laboratory samples, the sampler must initiate COC procedures and describe the sample site in adequate detail to allow the analytical results to be properly interpreted and, if necessary, to allow collection of additional samples from the same sample location. ABB-ES uses preprinted labels, and standardized record forms to expedite this process and ensure uniformity of records. The sampling protocols and recordkeeping requirements for the types of samples described in the following pages vary according to the sampling techniques. Additional requirements may also be established on a site-specific basis. The entire soil sampling process should be designed and conducted in a manner that provides properly documented samples suitable for the intended analyses.

**4.6.4.1 Soil Boring Sampling.** Sampling from soil borings provides soil samples suitable for chemical analysis from depths greater than 5 feet below ground surface. Borings are advanced using a variety of methods including HSA, drive-and-wash casing, or spun-and-wash casing methods. The boring method chosen is based on subsurface conditions and the selected method is presented in the Work Plan considerations in selecting a drilling method include the technical ability of a method to achieve the projected drilling depth in the materials to be drilled; whether telescoping through contaminated zones might be required; whether rock coring is also to be performed in that boring; availability of water; and cost. ABB-ES prepares detailed drilling specifications governing the drilling subcontractor's efforts. These specifications are modified on a site-specific basis to reflect the needs of each project.

Description of Drilling Methods. One of the most commonly used drilling methods is the HSA method, which utilizes coupled lengths of continuous flight augers to bring cuttings upward as the auger string is rotated and advanced into the ground. ABB-ES routinely specifies 4.25-inch ID HSA drilling at sites where overburden is composed of sand or silt, and cobbles, boulders, or rubble are not expected to be encountered. The hollow-stem allows for collection ahead of the augers using a split-spoon sampler or other device, and is large enough for installation of 2-inch ID monitoring wells inside the annular space of the casing. Auger sections are usually 5 feet in length and are attached directly to each other with bolts or with bolted collars. During drilling, the open end of the auger can be blocked as it advances to prevent soil from entering the hollow stem. No drilling fluids are used under normal circumstances. More commonly, the soil is allowed to pack into the open end a few inches. After the auger is advanced to the desired sampling level, the sampling tool is inserted through the hollow stem and driven. HSA drilling is not compatible with rock coring.

In washed casing methods (driven or spun), the boring is advanced by first driving or spinning the casing (smooth sided, threaded, flush joint pipe) into the soil to the desired depth and then clearing out to a maximum depth of three inches below the bottom of the casing using a rollerbit and rod through which water is pumped as the bit is advanced. Where driven casing is used, the lead casing is equipped with a bit called the drive shoe. Spun casing uses a spin shoe. ABB-ES commonly specifies 4-inch ID washed casing in tight, heavy soils such as clay, soil containing cobbles, boulders, or rubble through which augers could not be advanced, or in borings that are planned to be advanced through the overburden into bedrock.

Driven casing is advanced using the blows of a 300-pound hammer falling 24-inches. Hammer blows are recorded for each 12 inches of penetration. In cohesive soils, the inner bit may be advanced further than 3-inches ahead of the casing, and then the casing advanced. During washing of the casing and advance of the roller bit and rod, water will not be recirculated (to prevent cross-contamination) unless specified in the Work Plan. Disposal of the wash water and soil cuttings will be specified in the Work Plan. As washed borings are advanced, special care shall be taken to note and record the depth where drilling fluid is lost if this occurs, the depth of an apparent change in soil type, consistency, or color, as can be detected practically while advancing the boring, or other details about the progress of the boring.

Other types of drilling methods to be considered include use of the TerraProbe® (see Subsection 4.6.5) for shallow boreholes (to 25 feet bgs), Air Rotary, Air Hammer, and Dual-Walled Methods. If these are specified for a site, the drilling procedure will be summarized in the site-specific Work Plan. When drilling and installing a well in a confined aquifer, proper techniques must be employed to avoid cross-contamination between aquifers. Under most conditions, this is accomplished using double-cased borings. This technique involves drilling a large diameter boring through the upper aquifer and 1 to 3 feet into the underlying confining layer, and if required, pressure grouting the large diameter casing into the confining layer. A smaller diameter boring is then advanced inside the large diameter casing through the confining layer for installation of the monitoring well into the lower aquifer. A minimum period of 24 hours shall be allowed to set up the grout before drilling through the confining layer.

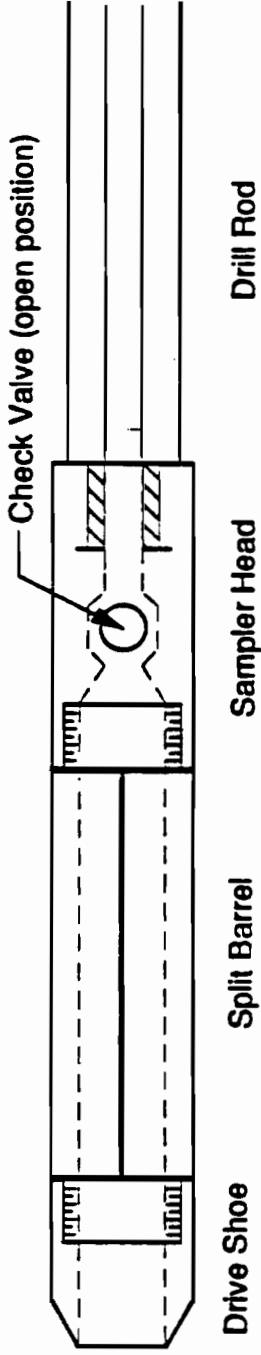
Split-spoon Soil Sampling. Soil boring samples are taken from undisturbed soil at the bottom of the boring with a split-spoon sampler. This sampler consists of a split steel tube or sample barrel threaded at both ends. A sharpened drive shoe secures the bottom of the barrel and an adaptor secures the top. The adaptor is threaded to connect directly to the drill rods and contains a check valve (Figure 4-4). The split-spoon is driven into undisturbed soil below the casing using the standard penetration test (ASTM-D-1586-84) (Figure 4-5). The standard penetration test consists of driving a 1½-inch ID, 2-foot split spoon 18 inches into the soil at the end of the drilling rods using a 150-pound hammer dropped 30-inches. Blows per foot are recorded as a SPT-N value defined as total blows for the penetration from 6 to 18 inches. If the split-spoon is to be driven greater than 18 inches, or will be larger than 1½-inch ID, this will be specified in the Work Plan.

After the sampler has been driven, it is withdrawn from the borehole and the sampler is opened by removing the drive shoe and adaptor.

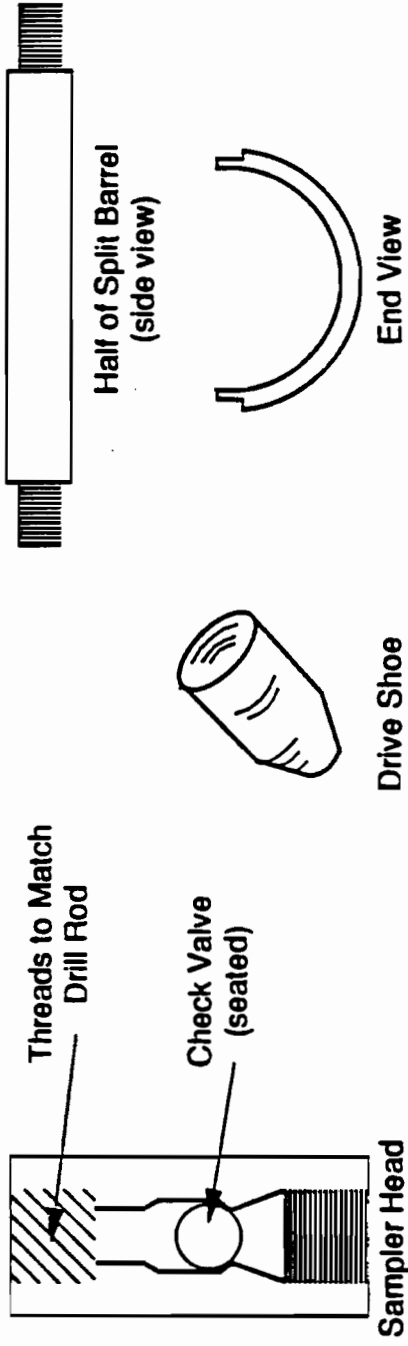
The field geologist will take custody of the sampling device as soon as it is withdrawn from the borehole. The sample will be collected and documented in the field logbook and on the boring log (Figure 4-6) employing the procedures as outlined below.

1. Scan the soil with a PI meter and record any measurements.

**SPLIT-SPOON SAMPLER**



**SPLIT-SPOON SAMPLER DISASSEMBLED**



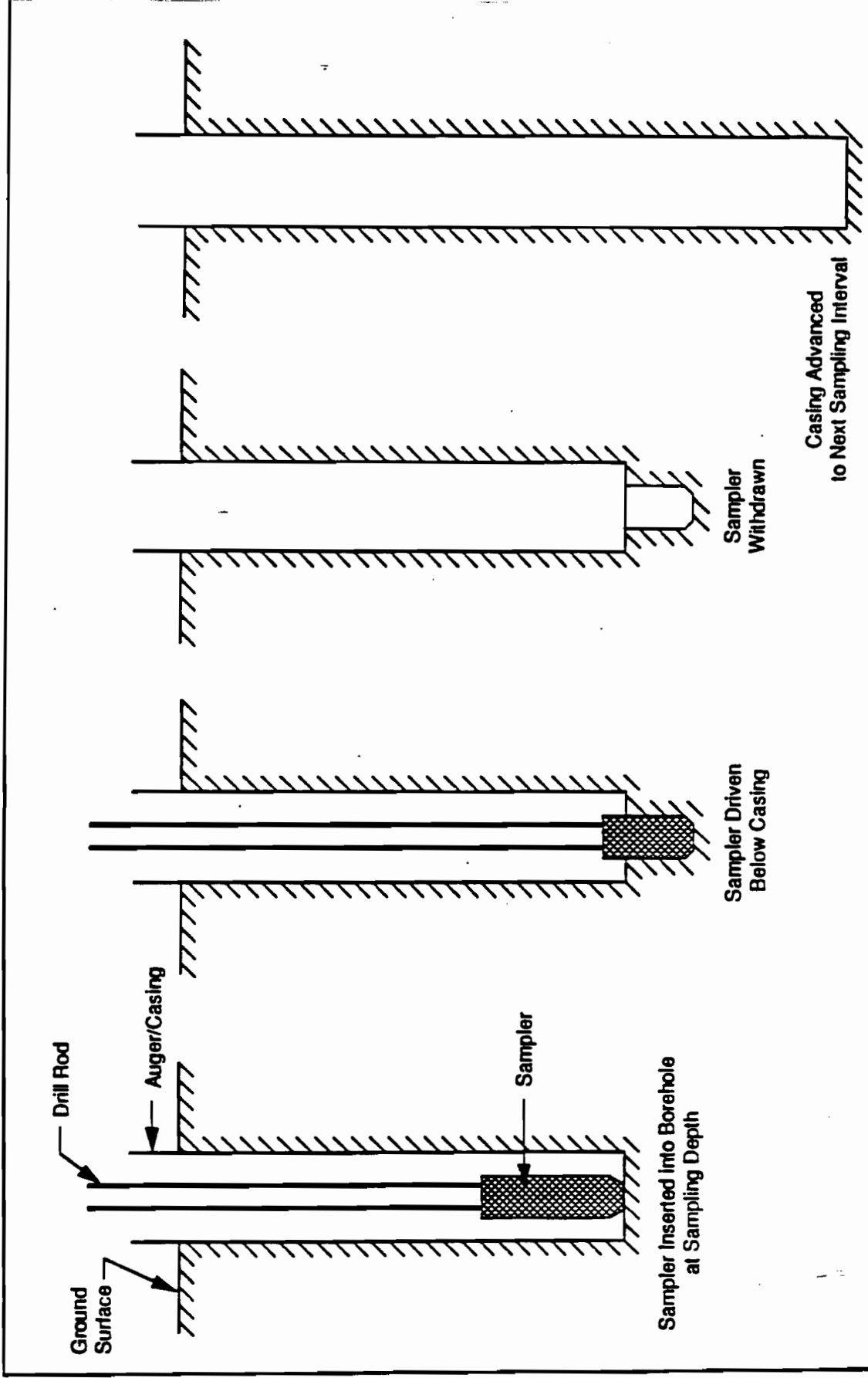
NOT TO SCALE

**FIGURE 4-4  
SPLIT SPOON SAMPLER  
NYSDEC PROGRAM QUALITY ASSURANCE PROJECT PLAN**

ABB Environmental Services

9104014D/C





**FIGURE 4-5**  
**STEPS IN SAMPLING A TEST BORING**



2. Remove the portion(s) of the sample selected for chemical analysis and place into appropriate containers using a clean spatula. Soil intended for VOC analysis should be placed in the appropriate wide-mouth glass jar and capped as quickly as possible. The containers should be filled as near to capacity as practicable to minimize volatilization of the sample into the container headspace. Soil intended for other types of analyses should be placed in appropriate containers and capped.
3. Visually examine the sample and record its characteristics (e.g., texture, color, consistency, moisture content, layering and other pertinent data), and classify using the Unified Soil Classification System (ASTM-D-2488-84) summarized in Appendix A.
4. Place the remainder of the sample in an 8- or 16-oz reference jar. This sample portion will be used for headspace PI meter measurement and for any physical materials testing that is required.
5. Discard any excessively disturbed or loose material found in the sampler which may not be representative of the interval sampled. This material will be discarded in the same manner as the boring spoils at each boring location.
6. Decontaminate the sampling device in accordance with the procedure specified in Subsection 4.3.

In some instances, there may be no analytical samples collected from a given boring. In these instances, steps 2 and 3 of the procedure listed above are omitted and the sample is placed in one or more reference jars. A grain-size analysis of Atterberg limits will be conducted for each lithologic unit encountered, as well as for the screened interval of borings completed as monitoring wells (NYSDEC TAGM 4007).

Immediately after the samples are collected, all labeled vials and jars are checked for completeness of the sampling objective and COC procedures are initiated. The boring log is also updated by the geologist. Boring logs may be completed by the driller, but for purposes of completeness and documentation a separate boring log is also compiled by the ABB-ES geologist. The boring log includes

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interpretations of subsurface materials and conditions encountered, sample locations, PID meter readings, and other notes pertinent to how the boring was conducted or conditions encountered during sampling such as staining, odor, etc. The geologist's boring log will be completed in a site field logbook and on a boring log form (Figure 4-6).

The sampler must exercise considerable care while collecting samples for analysis. Some methods for sample collection are described below.

1. Obtain samples from undisturbed soil below the casing or auger. This is accomplished by monitoring or checking the drill crew's measurements, observing the sampling process and examining the sample once it is retrieved.
2. Carefully remove and discard portions of the sample that are suspected to be contaminated by contact with the casing, auger, or drilling fluids.
3. Conserve sample volume since under certain soil conditions it may be difficult or impossible to achieve good sample recovery with split-spoons.

Procedures employed to minimize cross-contamination during test boring sampling operations include the following:

- Samples are taken immediately after the boring is advanced to the desired sampling depth.
- The sampling tools are decontaminated prior to taking each sample.
- The drilling contractor is not permitted to use oil, grease or other petroleum based lubricants on the drill rods, casing or sampling tools. Use of any other lubricants will be documented.
- The drilling technique and procedures to be utilized, particularly the use of drilling fluids, are carefully evaluated for each site.

PI meter should be recorded. A description of the drum contents should be recorded (color, consistency, etc.).

Solids can be sampled from the drums using several methods: a bucket auger, hand auger, or hand scoop. As the drums to be sampled are open to the atmosphere, all of these methods can be used. When the drum has been sampled, all sampling equipment should be decontaminated as described in the site-specific HASP.

#### 4.7 MONITORING WELL/PIEZOMETER INSTALLATION

The objectives for each monitoring well and/or piezometer may vary from site to site and from well to well. The objectives will be clearly defined in the Work Plan before the monitoring system is designed. Monitoring wells serving different purposes require different types of construction. The objectives for installing monitoring wells may include:

- determining groundwater flow direction and velocity
- sampling or monitoring for contaminants
- determining aquifer characteristics (e.g., hydraulic conductivity testing)
- performing site remediation (e.g., injection or recovery wells)

In cases where only groundwater flow or velocities are to be determined, piezometers, cluster wells, or well points may be used.

Well Materials. Well riser pipe materials are specified by diameter, type of materials, and thickness of pipe. Well screens require an additional specification of slot size. Well specifications are presented in the Work Plan and/or site-specific QAPP.

The selection of well material depends on the method of drilling, the type of contamination expected, natural water quality, and anticipated depth. The cost may also be a consideration. The two most-commonly used materials are polyvinyl chloride (PVC) and stainless steel. PVC is generally preferred to stainless steel because it is light-weight, less expensive, non-corrosive, and generally easier to work with. However, PVC may deteriorate in the presence of

ketones, aromatics, alkyl sulfides, and some chlorinated hydrocarbons. In such cases stainless steel may be preferred.

When the aquifer is bedrock, a well screen may not be necessary (the well is simply an open hole in bedrock). Unconsolidated materials such as sands, clay, and silts, require a well screen. The screen slot size should be selected to retain 90 percent of the filter pack material or in situ aquifer material, after development (Driscoll, 1989). The gradation of the filter pack material will be selected based on the gradation of the native soils within the screened interval. A screen slot size of 0.010-inches is generally used when a screen is necessary and site conditions are not known.

The thickness of pipe depends on the strength required for the well. In general, larger diameter pipe requires greater thickness to maintain adequate strength. Similarly, driven well points require greater strength, and therefore greater thickness, than wells installed inside drilled borings.

Well Design. The well depth and diameter are tailored to the specific monitoring needs of each site and generally depends on the purpose of the monitoring system and the geologic setting. The decision concerning the depth of placement and length of the well screen is based on the following information:

- aquifer depth, thickness, and characteristics (e.g., permeability and specific yield)
- anticipated depth, thickness, and characteristics (e.g., density relative to water) of the contaminant plume
- head distribution and estimated flow in the aquifer
- fluctuation in groundwater levels

In most situations, screen lengths are 5 to 10 feet.

Standard well inside diameters are 2, 4, 6, or 8 inches. For most groundwater monitoring and sampling programs, a 2-inch ID well is preferred. Pumping tests for determining aquifer characteristics may require larger diameter wells; however, in situ hydraulic conductivity testing can be performed during drilling or after well installation in small diameter wells. Other considerations in selecting well diameters include the types and size of the sampling equipment, and any in situ instrumentation that may be used in the well.

In general, the borehole diameter should be at least 4 inches larger than the well riser pipe diameter to provide an annular space of at least 2 inches for placement of filter pack, seal, and grout or backfill.

Well Installation. Monitoring well installation details will be recorded in the field geologists' notebook and on an overburden or bedrock Monitoring Well Sheet (Figures 4-11 and 4-12).

Materials placed in the annular space between the borehole and the riser include filter pack, bentonite seal, and grout. In general, all of these materials may be installed via a tremie pipe placed in the annular space. In shallow wells, these materials may be emplaced from the ground surface, but the rationale and procedures must be described in the site-specific Work Plan and/or site-specific QAPjP.

The filter pack is usually a fine to medium uniform sand. The exact filter pack gradation should be chosen to retain approximately 60 percent of the aquifer material after well development (Driscoll, 1989). The filter pack is installed around the well screen and extending 2 to 3 feet above the top of the screen. At least 2 feet of bentonite pellets will be placed above the filter pack.

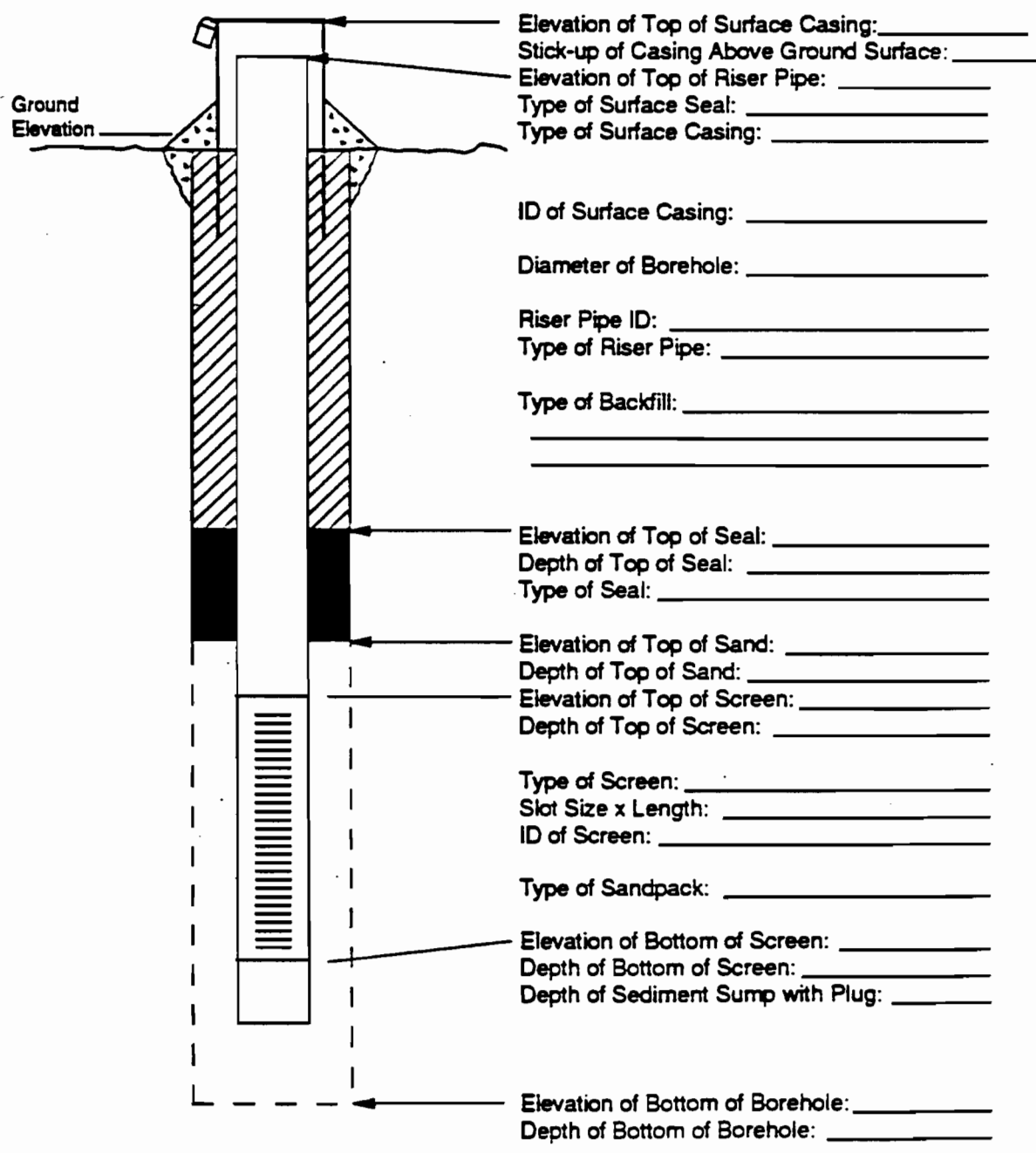
The bentonite expands by absorbing water and serves to isolate the screened interval from the rest of the annular space and the formation. If the bentonite seal is emplaced above the water table, care must be taken to adequately hydrate the pellets before proceeding with well construction. If the seal is below the water table the bentonite slurry may be tremied into place.

Grout is placed from the top of the bentonite to the ground surface. Grout generally consists of a cement-bentonite mixture or Portland cement. Grout seals minimize the possibility of surface run-off reaching the screened interval, and replaces material removed from the boring during drilling minimizing hole collapse and subsidence around the well.

In certain cases, the borehole may be drilled to a depth greater than the well installation depth. For these cases, the well is backfilled to the desired depth with bentonite and sand is placed between the bottom of the well and the bentonite.

# OVERBURDEN MONITORING WELL CONSTRUCTION DIAGRAM

Project \_\_\_\_\_ Location \_\_\_\_\_ Driller \_\_\_\_\_  
 Project No. \_\_\_\_\_ Boring No. \_\_\_\_\_ Drilling Method \_\_\_\_\_  
 Date Installed \_\_\_\_\_ Development Method \_\_\_\_\_  
 Field Geologist \_\_\_\_\_



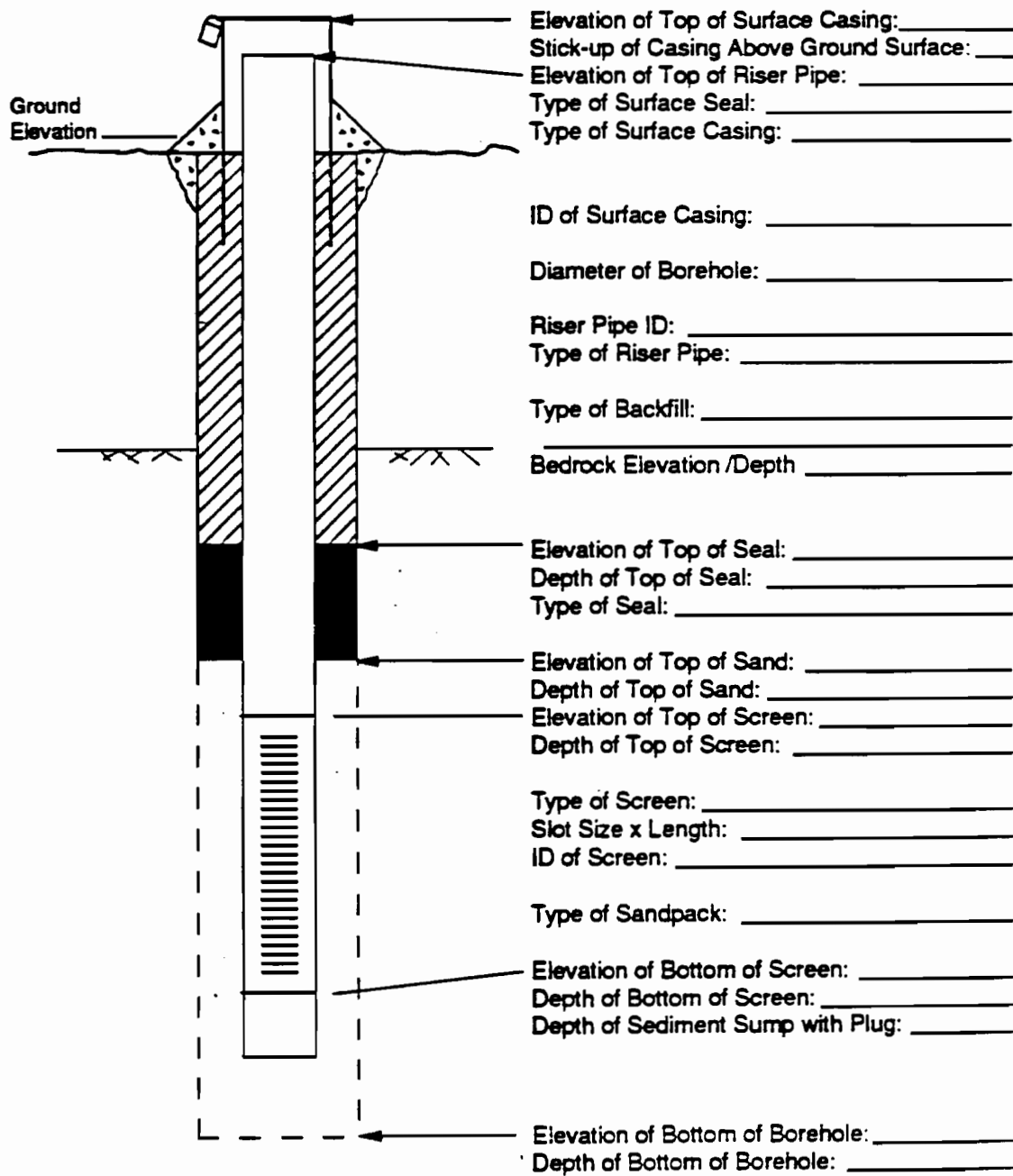
**FIGURE 4-11**  
**OVERBURDEN MONITORING WELL CONSTRUCTION DIAGRAM**  
**NYSDEC PROGRAM QUALITY ASSURANCE PROJECT PLAN**

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**BEDROCK MONITORING WELL CONSTRUCTION DIAGRAM**

Project \_\_\_\_\_ Location \_\_\_\_\_ Driller \_\_\_\_\_  
 Project No. \_\_\_\_\_ Boring No. \_\_\_\_\_ Drilling Method \_\_\_\_\_  
 Date Installed \_\_\_\_\_ Development Method \_\_\_\_\_  
 Field Geologist \_\_\_\_\_



**FIGURE**  
**OVERBURDEN MONITORING WELL CONSTRUCTION DIAGRAM**  
**NYSDEC PROGRAM QUALITY ASSURANCE PROJECT**

ABB Environmental Services

Well sections and all materials coming in contact with the well must be cleaned before installation. The screen and well-riser pipe can be placed in the boring either manually or using the rig to hold the pipe, depending on the weight of the well. The pipe is lowered and sections added until desired screen depth is reached. No glues or solvent-cement will be used in well construction monitoring wells. When the screen and riser are in place, the filter pack, bentonite seal, and grout are installed using tremie pipes. The well is completed with a vented PVC cap.

When the well is completed and grouted to the surface, a protective steel casing is often placed over the top of the well. This casing generally has a hinged cap and must be able to be locked to prevent vandalism. The protective casing is larger in diameter than the well and is set over the well into the wet grout or is cemented in place. Protective casings can be above ground or flush-mounted. Above ground protective casings will have weep holes to allow drainage. Special care must be taken with flush-mounted installations to ensure that surface drainage does not enter the well. The protective casing and surface cement should extend below the frost line to prevent heaving.

Well Development. Well development is a process of pumping or purging a new monitoring well, designed to stabilize and increase the permeability of the filter pack around the well screen and to restore the permeability of the formation which may have been reduced by drilling operations. The selection of the well development method will be made by the site hydrogeologist based on the drilling methods, well construction and installation details, and the site geology. Monitoring wells should be allowed to set for a minimum of 24 hours before well development to allow for the seal and grout to set. (NYSDEC TAGM 4007). Any equipment introduced into the well will be decontaminated in accordance with the procedures presented in the HASP. Water levels will be taken from each well before and after development (NYSDEC TAGM 4007). To avoid aeration of the filter pack, the water level will not be allowed, to the extent feasible, to fall below the top of the filter pack during development.

Well development may be accomplished using one of several methods including:

- Overpumping, which uses a pump (e.g., submersible or peristaltic) or compressed air (air lift) to remove water from the well.

- Surge block which uses a plunger, the approximate diameter of the well, to agitate water in and out of the screen. No water is removed from the well.
- Compressed air which develops a well by either backwashing (forcing water out of the well and reducing pressure to let water flow back in) or surging (releasing a large volume of air suddenly into an open well below the water table producing a strong surge due to resistance of water head, friction and inertia). Water is pumped from the well using airlift.

In accordance with NYSDEC TAGM 4007, well development will continue until the pumped water has a turbidity reading of 50 NTUs or less. Field measurements of turbidity, temperature, pH, and specific conductivity will be recorded for each well volume removed. Should a well fail to achieve the required turbidity within a reasonable amount of time (to be specified in the site-specific Work Plan), field personnel will provide the field data to the site manager who will contact the NYSDEC Project Manager for guidance on how to proceed. An average of two weeks should be allowed between development and subsequent sampling or water level measurements to allow the aquifer to re-equilibrate.

Well development will be documented in the field notebook and on the Well Development Record (Figure 4-13).

#### 4.8 TESTING

Testing activities include those field tasks that do not involve the collection of environmental samples, such as remote-sensing geophysical surveys, aquifer testing, and rock coring.

##### 4.8.1 Geophysical Methods

Geophysical methods are remote-sensing techniques that provide information about subsurface conditions. This information is used to plan locations of explorations including, test pits, monitoring wells, and borings. The principles, instrumentation, methodology, and techniques of data evaluation of ground

# WELL DEVELOPMENT RECORD

Project:	Well Installation Date:	Project No.:
Client:	Well Development Date:	Logged by: / Checked by:
Well/Site I.D.:	Weather:	Start Date: / Finish Date:
Initial Water Level (ft):	Start Time:	Finish Time:
Water Level during Initial Pumping/Purging (ft):		
Water Level at Termination of Pumping/Purging (ft):		

Height of Water Column: \_\_\_\_\_ ft

\_\_\_\_\_ 0.16 gal/ft (2 in.)  
 x \_\_\_\_\_ 0.65 gal/ft (4 in.)  
 \_\_\_\_\_ 1.5 gal/ft (6 in.)  
 \_\_\_\_\_ gal/ft (\_\_\_ in.) = \_\_\_\_\_ Well Volume (gal/vol)

Number of Well Volumes	TIME	TEMP.	pH	Conductivity	Approximate Pumping Rate (gal/min)	Turbidity (NTU's)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

Notes:

WELL DEVELOPER'S SIGNATURE \_\_\_\_\_

**FIGURE 4-13**  
**WELL DEVELOPMENT RECORD**  
**NYSDEC PROGRAM QUALITY ASSURANCE PROJECT PLAN**

ABB Environmental Services

Inactive Hazardous Waste Disposal Report

April

Site Name: Old Land Reclamation	Site Code: 915129
Class Code: 3      Region: 9      County: Erie	EPA Id:
Address: Broadway	City: Depew      Zip: 14043
Latitude: 42 54' 9"      Longitude: 78 43' 2"	
Site Type: Landfill	Estimated Size: 64      Acres

Site Owner / Operator Information:	
Current Owner(s) Name:	*** Multiple Site Owners ***
Current Owner(s) Address:	
Owner(s) during disposal:	Land Reclamation, Inc.
Operator(s) during disposal:	*** Multiple Site Operators ***
Stated Operator(s) Address:	
Hazardous Waste Disposal Period:	From 1960      To 1975

**Site Description:**

This site is an inactive solid waste landfill which, during its years of operation, accepted municipal and industrial wastes. The site is adjacent to an active scrap yard, an inactive railroad spur, Cayuga Creek and another inactive landfill which operated concurrently (Land Reclamation). Investigations conducted at this site to date include an Erie County DEP Sampling Study and Site Evaluation in 1984, and a NYSDEP Phase I Investigation in 1986 and a Phase II Investigation in 1991. Currently the site remains undeveloped with no buildings on site and densely covered with field grasses and brush. Numerous leachate seeps breach the site's south side and flow directly into Cayuga Creek. Cayuga Creek is a Class C creek used for recreation and fishing. Hazardous waste disposal has been documented at this site and analysis has demonstrated that groundwater and surface water have been affected. However, evidence does not demonstrate that a significant threat is posed by this site.

<b>Confirmed Hazardous Waste Disposal:</b>	<b>Quantity:</b>
sludge: centrifuge (WTP)	4910 tons
benzidine sulfate	2 tons
sludge: chrome oxide	367 tons
sludge: nuchar (CSA)	118 tons

Analytical Data Available for:	Groundwater	Surface Water	Soil	Sediment
Applicable Standards Exceeded in:	Groundwater	Drinking Water	Surface Water	
Geotechnical Information:			Depth to	
Soil/Rock Type: Silt-rich loam.			Groundwater:	Range: 5 to 10 feet.

Legal Action: Type:	Status:
Remedial Action:	Nature of action:

**Assessment of Environmental Problems:**

It has been demonstrated that this site is contributing to the contamination of groundwater, surface water and soil. Exposed fill is evident along the site's south edge along Cayuga Creek as a result of erosion. Numerous indescendent leachate seeps breach the site's south side and flow directly into the creek.

**Assessment of Health Problems:**

Surface water in drainage ditches and leachate seeps contains elevated barium, lead, zinc, aniline and phenols. In 1984, soil quality was found to be no different than background levels in the Buffalo area. The preliminary investigation found exposed fill on the surface of the landfill and at the southern edge of the landfill as a result of Cayuga Creek bank erosion. However, no surface soil sampling was conducted. Although groundwater is impacted, area residents are served by public water so exposures via drinking water are not expected. Elevated concentrations of inorganics (metals) in surface water and semi-volatiles in sediment found directly downstream indicate the site is contributing to the contamination of Cayuga Creek.





APPENDIX B

**New York State Department of Environmental Conservation**

**Division of Environmental Remediation, Region 9**

270 Michigan Avenue, Buffalo, New York, 14203-2999

Phone: (716) 851-7220 • FAX: (716) 851-7226

Website: www.dec.state.ny.us



FOIL

Releasable

Non-Releasable

December 10, 2001

John Gorton, P.E.  
URS Corporation Group Consultants  
282 Delaware Avenue  
Buffalo, New York 14202

Dear Mr. Gorton:

Notice to Proceed - IIWA Project  
Old Land Reclamation Site (Registry #915129)  
Standby Contract: D003825-36

This letter serves as the formal 'Notice to Proceed' relative to the above-referenced project and serves as your authorization to begin work. A written project work plan specifying the work required of URS Corporation Group Consultants (URS) is enclosed and other project relevant information is presented in this letter. Please schedule the requested work to begin during the week of December 17. As you know, this Immediate Investigation Work Assignment (IIWA) project has a maximum pre-approved budget of \$50,000.

Mr. David Szymanski of this office is the Project Manager for the proposed work and will be the primary NYSDEC contact regarding this project. Mr. Szymanski will also be supervising the field investigation elements associated with this project.

At this time, I would like you to make all the necessary arrangements for, and to execute the soil boring and groundwater monitoring well installation program and the limited contaminated soil/ groundwater removal program.

Specifically:

- URS will arrange for all appropriate utility clearances.
- URS will be responsible for procuring and managing all subcontractors deemed necessary to complete the subsurface soil sampling and groundwater monitoring well installation program and the limited contaminated soil/ groundwater removal program.



Mr. John Gorton  
December 10, 2001  
Page 2

- URS will be responsible for supplying the pertinent screening instrumentation for use during the subsurface soil sampling and groundwater monitoring well installation program and the limited contaminated soil/ groundwater removal program, and appropriate monitoring instruments to meet the ~~E&E~~ <sup>URS</sup> Health and Safety requirements.
- URS will be responsible for the generation of all field activity logs and/or notes associated with the subsurface soil sampling and groundwater monitoring well installation program and the limited contaminated soil/ groundwater removal program.
- URS will assist the NYSDEC representative(s) in the collection of any environmental samples associated with the boring and groundwater monitoring well installation program and the limited contaminated soil/ groundwater removal program or as needed. All bottleware and laboratory services will be provided by the NYSDEC except for those required for the limited contaminated soil/ groundwater removal program, as needed, which may be taken for appropriate disposal purposes by URS or their subcontractors.

Deliverables associated with this project will be expected in the form of a simple letter or report and include: any subsurface soil or environmental sample description logs/details generated during the subsurface soil sampling and groundwater monitoring well installation program; all details related to the limited contaminated soil/ groundwater removal program; any recorded measurements made with any of the screening instruments used during the boring and groundwater monitoring well installation program and the limited contaminated soil/ groundwater removal program; and any sketches, photographs or maps generated during the overall project.

Technical questions related to this project or the work plan should be directed to Mr. Szymanski at 716-851-7220. In addition, all project related correspondence (and a copy of any related Contractor's Application for Payment) should be sent to Mr. Szymanski at the above address. Questions relating to the IIWA Program itself are to be directed toward Mr. William Shaw in the NYSDEC Central Office - Albany at 518-402-9553.

Sincerely,



Peter J. Buechi, P.E.  
Regional Environmental Remediation Engineer

cc: Mr. Jaspal Walia  
Mr. David Szymanski  
Mr. William Shaw

---



## APPENDIX C

# LABORATORY NOTEBOOK

Notebook No.: 1 - Old land Reclamation

Assigned to: \_\_\_\_\_

Date: 12/13/01

Use Nalge Cat. No.

6301-1000

to reorder.

Copyright 1973, Nalge Company  
Printed in U.S.A.





1 J. Doerr on Site; WV (cloudy ~ 35° F, 12  
 wind (5-10 mph), drillers have not set time  
 arrival NYS DEC, Dave S due 0900-9:30  
 2 BDC on site, Michael Gersten, Miller  
 informs J. Doerr that this is only 1st load  
 to to mob all the equipment today  
 3 Dave S, NYS DEC on site discuss with  
 him

2 Drillers off site to mob for 2nd load, J. Doerr  
 site to call DC, DUSAI. MASP out of typing  
 Doerr returns to office to get revised MASP  
 J. Doerr on site. SJB mopped to site;  
 fusion from communication J. Doerr/  
 moved @ SJB - SJB thought they had bid  
 Dave S NYS DEC - off site &

M. Fortucci NYS DEC on site, waiting for Dave S  
 Dave S. on site  
 Dave S & M. Fortucci on site walk through  
 BDC arrives with tracked transporter  
 Problems getting the low boy disconnected to unload

3: Photo Roll #, #27; view from SW near Front  
 site (N) showing equipment ATV Rig, Transporter,  
 by DEC - OK to Steam Rd dirt onto ground  
 after casing from truck to rig, to be able to get the  
 Tri axle stuck, push it out with Rig

Drillers off site to get walk  
 Drillers return to site  
 Initial steel equipment  
 Dave S - DEC - off site  
 crew off site

*[Signature]*  
 12/18/01

Continued on Page

Read and Understood By

Signed

Date

Signed

Date

12/19/01

PROJECT Old Land Rec. 36000.C1

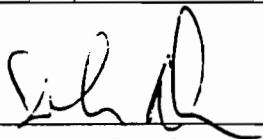
Notebook No. \_\_\_\_\_

Continued From Page \_\_\_\_\_

- 0712 - Drillers & J. Devero on site, WX: ~35°F  
Calm, cloudy, drillers set up for preliminary  
leach. Road dirt, equipment clean except J. Devero  
0756 - Fill water tank on transport from truck  
to water tank on rig, procedure is to fill tank  
on truck from hydrant, then pump into tank  
in ATV transporter
- 0759 Begin Steaming  
0810 Finish Steaming  
0812 Resume Filling tanks
- 0821 Dave S, NUSDEC on site
- 0850 - Move to South end of site; drillers to  
trip off casing at each well head  
0910 at GW-3 Eastern most well pair
- 0937 Set up at GW-3 A,  
0955 instrument back on well - O<sub>2</sub> = 0.0 ppm Turbidity  
O<sub>2</sub> = 20.7% LEL 0% H<sub>2</sub>S 0 ppm
- 1012 Begin GW-3 A
- 1044 - @ 6' strong "Gauging" smell 0.0 ppm - CUM, 20.7  
0% LEL, 0 ppm H<sub>2</sub>S
- 1158 Auger 10' - 12' all wood Dave S OK auger  
until through the wood  
1230 Break through wood at ~14.5', auger grinding on  
something at ~15'
- 1250 - Back into wood @ 16'
- 1415 - Slow augering, still in wood, cuttings are all  
thru wood
- 1426 - Break through sample 22' - 24'
- 1520 - apparent natural material @ 26'
- 1536 - Wet at 28'
- 1607 - Bedrock at 33'
- Begin change over for back drilling  
1620 - Check 8' in rock @ 32.0'
- Total 30' Huger, 12 samples, back up  
1650 off site

Continued on Page \_\_\_\_\_

Read and Understood By \_\_\_\_\_



Signed

12/19/01

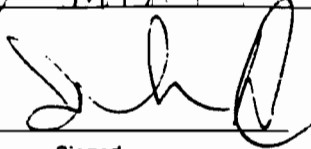
Date

Signed

Date

- 1 All parties on site, wx: ~ 32° F, strong west d (15-25mph), intermittent snow/rain mix.
- 2 at 6:00 3, warm up rig, complete change over press H<sub>2</sub>O @ 28', and rock at 33" Dave's request's saw-
- 3 top of rock from broken Dip's tells drilled 60' in the box rock socket, no casing
- 4 Been Reaming rock sock @ 33'
- 5 Shut Shear on water in Mud tub, add red
- 6 - Close petrel water
- 7 Keened ~ 1' lost 700 gals
- 8 Mike leaves to go fill water tank on
- 9 K, Keith will continue as long as water kept
- 10 due to 4 rent to meet Mike to fill tanks on
- 11 4 TV transport, using ~ 350 gals/Hr
- 12 - Shut down out of water
- 13 - Keith goes to pick up water
- 14 - Drillers return resume reaming
- 15 then build down pad while transferring H<sub>2</sub>O
- 16 Keened 36' Total water loss ~ 1200 gallons -
- 17 tools, Dave's, NYSDEC off site
- 18 3 wire line on breaks out wrench broke will
- 19 breaks drill stem by hand
- 20 tools tripped out, prepare to install casing
- 21 install 40' casing (2 x 20' sections threaded
- 22 in a flush joint)
- 23 casing installed, install Tremie + mix grout
- 24 Tremie 1<sup>st</sup> batch grout ~ 36-38 gallons, 4 bag mix
- 25 Pull auger
- 26 Hydras not coming out, Trim stick up on casing,
- 27 then will use auger head to back out auger
- 28 Casing cut, remove auger & Hydras
- 29 Hydras back up, won't lift, won't rotate
- 30 Auger moving ~ 1/4 turn
- 31 Hydras turning, coming out
- 32 Hydras out
- 33 mix 2nd 4 Bag mix grout - total 8 bags

Continued on Page \_\_\_\_\_  
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 12/20/01

7/20/01  
PROJECT Old Land Rec. 36000-01

Notebook No. \_\_\_\_\_  
Continued From Page \_\_\_\_\_

- 1440. Tremie 2nd batch
- 1442. Mix 3rd batch - 2 bags, = 10 bags
- 1448. Tremie 3rd batch, Clean up and move an set up GW-3B
- 505 Begin GW-3B, no sampling, all right to top of
- 1533 Drive S. NYSDEC, EST SITE
- 556 GW-3B at 33.5' refusal on bedrock.
- 1628 off site

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7/20/01

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Date \_\_\_\_\_



- 5 J. Doorn & drillers on site w/ clean
- 5' Ft SW wind, drillers go for water
- 3 drillers return transfer water -
- 3 Dave S NYS DEC on site
- 3 at 641-13B prep to install well -
- 1 - Clean hole
- 3 - Pull plug rods
- 5 - Plug cut hole open to 33'
- 7 - install 5' schedule 40, 10 5/8" screen and
- 1 - schedule 40 PVC riser
- 8 - Begin sand pack
- 1 - Sand pack installed 32.4' - 25.1', 3-100/16 bar.
- 1 - seal to 22.5' hydrate
- 1 - Mix grout, will grout 3B and top of 3A -
- 1 - Tremie grout 3B
- 1 - Mix 2<sup>nd</sup> batch for 3B, (st. substantial amount
- batch, fractures, or voids)
- 1 - Tremie 2<sup>nd</sup> batch
- 1 - Grout tremied, no change ~ 10' grout in
- 1 - m of hole over seal, will pull auger & add chip
- 1 - hydrate with grout
- 1 - Mix 3<sup>rd</sup> batch
- 1 - Tremie 3<sup>rd</sup> batch
- 1 - M. Fortucci NYS DOT
- 1 - Grout to ~ 5', mix next batch, for
- 1 - 3B
- 1 - Top off 3B 3A
- 1 - mix two more batches to top of hole
- 1 - finish off site clean up
- 1 - load drums for staging to clean area
- 1 - at decom - Stage drums to pallets, prepare
- 1 - bags, via, 8 1/4 bin 4 1/4 HSH, tools etc.
- 1 - M. Fortucci, DOT off site, Dave S DEC off site
- 1 - Drillers to old land steam clean, H<sub>2</sub>O
- 1 - loss from transporter

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Date

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Date

12/2/01

PROJECT Old land Rec 36000.01

Notebook No. \_\_\_\_\_

Continued From Page \_\_\_\_\_

- Drillers will load large 1,000 gal H<sub>2</sub>O tank in place of two small tanks and get load steamed
- 1226- 4V4 HSAs to decom panel
- ~~1230~~ 1230 Begin steaming 4V4's. 8 1/2 hrs etc
- Steam clean transport trailers
- drillers drive stakes, fence off drum steaming area BDC has 3 men weld, T. Bistoff arr
- 257- Done 5 NYSDEC, on site
- 306- Finish decom
- 313- Remove small tanks from transporter
- 1335- lamps switched, fuel rig
- 349- load all equipment and secure s.
- 1451- off site

*Joe*

12/3/01

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onsite, WX ~ 17°F, light snow mod SSW  
d 10-15 mph w/ 1" of snow on ground, burl  
n plows ~ 30"-36" high, will have to use  
9-to pack down snow to gain access to  
being areas to get to site

- 1) BDC on site, start warming up rigs, prep
- 2) Warm up rigs will need to fill H<sub>2</sub>O tanks
- 3) Begin clearing parking area for vehicles
- 4) Warm truck truck, Dave S, NY SDEC on site
- 5) Water truck towed out by ATV, water run
- 6) Dryers back w/ 9th wheel, bring go-trail
- 7) and to fill tanks

- transfer water to tank on ATV  
- water transferred Dave S off site

- Set up to core GUL-3A  
- Dave S NY SDEC on site, tools, iced up  
+ core through to thaw tools, hole opened to 36"

- Begin core run #1 @ 36"  
end run 1 @ 41" continued run 1

End Run 1 @ 41"  
Begin Run 2 @ 41"

End Run 2 @ 46"  
Begin Run 3 @ 46"

Begin Run 3 @ 46"  
Begin Run 4 @ 47.2' lost 1000 gals, start

4- pack up - secure site

*[Signature]*  
12/26/01

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1/02/02

PROJECT Old Land Rec 36000.01

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1700 J. Doern on site WX: 8°F, mostly clear - ca  
 will need to clear snow for access, snow has  
 5' high across entrance and ~ 30" on gro  
 1800 Call BDC - No removal equipment avail  
 ble, all on call for the city removal

1/2/02: 1000 - in office Dave's NYSDEC  
 phones BDC was not on site at 0900 -  
 He will check site at lunch and requested  
 to go to site in PM to verify work how  
 1445 - J. Doern on site, lot excavated, will  
 rock running, ATV transport won't run  
 calls mechanic

1511 Water Truck towed out - L. Schroeder  
 calls office mechanic will out, 1st thing in AM  
 to get ATV transport moving - will fill with water  
 1526 - T. Bischoff off site to call w/ party K. Dancer  
 continues dozing lot - GW-3+4 cleared, K. Dancer  
 will clean GW-5

1550 J. Doern off site  
 Total for day BDC on at 0900, L. Schroeder  
 leaves @ 1500, T. Bischoff @ 1600, K. Dancer @ 1700

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1/3/02

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5 J. Doerr, drillers on site; wx: Partly cloudy  
5-10 mph west wind ~ 25°F T. Bishoff and  
mechanic work on ATV.

6 K. Dancer BDC. on site.

7 0 Jump start dozer for more snow clear-  
el - ATV - started, but fuel lines frozen  
w/ lines

9 - K. Dancer takes dozer to improve access  
roads to well heads

8 wx: intermittent sun, wind increases 15-20 mph

7 Fuel broken, T. Bishoff and mechanic off site  
get new line; K. Dancer works on access roads

ATV repaired and running

0 - Drillers go for water (1 tank only, we  
can't use more than 1 tank for the rest of the  
day) - drillers dig out fire hydrant yesterday

burning

2 Drillers return, transfer water to ATV tank

34 - Transfer complete move GW-3A

6 at GW-3A try to start rig, clear work zone

2 Resumb core run 3 @ 49.5 to 50'

7 End Run 3 @ 50' used ~ 400 gallons water

10 5, NYSDEC on site

pull core 3.5' / 4' 2.33' 28" / 48" - Rec = 95% RQD = 60%

7 Begin Reaming GW-3A

6 Circulation of cuttings returns

@ 4 1/2 BGS, secure site

8 - off site

*[Signature]*  
1/4/02

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11/10/02

PROJECT Eldorado Rec 36000.01

Notebook No. \_\_\_\_\_

Continued From Page \_\_\_\_\_

- 746 on site WX ~ 30°F light NE (10-5) wind, can't enter site ~ 2'-2 1/2' of plow residue across entrance
- 848- Drillers arrive on site - delayed by month safety meeting @ shop. Fill water truck, drillers knock down plow bank
- 958- Water truck back, transfer water to ATV
- 1017- Dave 5 man skid NYSDEC on site
- 1029- Water transferred, hook up trailer load fill supplies
- 1066- Move to GW-3A
- 1134- Arrive GW-3A access road climbed over GC tract, cut several times, wrong rig, then equipment
- 1210- Finally got rig started, begin reaming GW-3A
- 1335- Reamed to 50.5' depth hole
- 1407- Hole cleaned, pull tools
- 1418- Tools out set well, 10'-10 slot PVC screen, 40'-50'+33 PVC riser
- 1427- Screen & riser installed, begin sand pack
- 1442- Sand pack to 37.4' and seal
- 1445- Seal installed to 35.5, prepared to grout, water in hole not dissipating, overflowing
- 1458- Tremie Grout - GW-3A
- 1507- Tremie 2nd batch
- 1513- Hole complete, rig down to move to GW-4
- 1537- Dave 5 off site
- 1607- at GW-4, off load, fuel in corner of ATV
- 1623- Pack up
- 1638- off site

*[Signature]* 11/7/02

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5 J. Doern on site WX ~ 20° F, wind SW  
- 35 mph, cloudy light precipitation

21 T. Bischoff on site

9 L. Schroeder on site

32 - Fix Fuel line on ATV, prep steam cleaner

53 - Fuel line repaired

8 - Begin steaming wiring, reaming tools, milt tools

2 - Finish steaming, sweep, winterize Decon

6 - current GW-3, load up

5 - current GW-4A, set up

- Dave S. NYSDDEC on site

7 - Begin GW-4A

1 - Hit rock at 26.7' driller ran 4 1/4" for sampling,

choice will past use 8 1/4" for reaming

pull 4 1/4" HSA

4 1/4" out, change for 8 1/4"

Begin 8 1/4"

Chain box transfer case broke at 20' during

causing through wooden debris

! Schroeder calling going to find out what to

about broken chain box!

22 - BDC sending a mechanic to site to attempt

repair on the chain box

6 - Mechanic on site

6 - cut casing

7 - BDC has no replacement chain has to

use chain

- Secure site

- off site

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1/9/06

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19/02

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PROJECT Old Land Rec 36000.01

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- 0846- J. Doerr checks drilling locations on Old Farm Rd 1 blade width back ~ 10' the rest 4 blade widths averages ~ 4', Rowley Hollow site ~ 3' from creek
- 0910 J. Doerr calls C. Duseil with sp date
- T. Bishop on site @ 0830, fills water truck, h. Schroeder on site with new chain
- 0946 Water truck on site, fill ATV tank
- 0959- Tank Full
- 1012- At GW-4A - with new chain
- 1023- Chain on, however, problem to tighten, will not attach link pin
- 1037- Top link pins in, install bottom plate, cotter pin
- 1046- Chain drive finished button up assembly
- 1027- Resume Augering (844) GW 4A @ 20'
- 1041- Auger refusal (bedrock) @ 26.5', change over to ream with 7 7/8 (water rotary)
- 1057- Begin reaming @ 26.5'
- 1026- M. Gutmann, C. Duseil (URS) on site
- 1034- Dave S. on site (NYSDEC)
- 1000- Gutmann Duseil, off site
- 1044- Ream to 29.5' flush hole
- 1059- Drillers go for grout
- 1027- Drillers return
- 1030- Trip out tools
- 1053- Tools out, install casing
- 1052- Casing installed, mix grout, pull augers
- 1032- Dave S. (NYSDEC) off site
- 1059- Grout tremied, Augers out - clean up
- 1033- off site

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- 1-J. Doers on site wx 38°F cloudy moderate
- 2-wind 10-15 mph
- 7-T. BISHOFF on site
- 29-J. Schroedy on site
- 1-11 well materials
- 7-6' CW-4, move + set up @ 7(GW)-4/B
- 7-Set up @ (GW)-4/B, replace broken tech on auger
- 8-Begin CW-4/B
- 7-@ Bear rock ~ 26', pull rods, plug
- 3-TD 26.6' BGS, install 5" screen, 25' riser
- 7-install sand pack
- 7-Sand pack 26.6-27.5 install seal
- 4-Seal installed 17.4', mix grout
- 7-tremie grout
- 8-Dave S. NYSDDEC, on site
- 1-Hydrant cut, top off grout
- 5-Mix 2<sup>nd</sup> batch grout
- 9-2<sup>nd</sup> batch tremied, still needs more, will
- run up, go to decon, decon augers, get more cement
- 8-at decon prep
- 6-Dave S. NYSDDEC, off site
- run count 1/10/02
- 1-3; 4 drums at decon-cuttings overburden,
- 1 drum, GW-4A, rock cuttings at well
- 1-4; 2 drums overburden cuttings at well
- 1 begin steaming overburden tools
- 2 finish decon, move equipment to GW-3
- 2 cement
- unload overburden tools GW-5
- 0 mix grout at GW-4B
- 8 pour grout, GW-4B topped off;
- 2 change over to curing tools
- 1-Clean up GW-4 site
- 1-Make water run
- 1-100's feet water
- 2-off cut

Continued on Page

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JR 4/11/02

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Date

- 707, L. Schroeder, J. Deen on site w/ C. Clow
- light rain showers, 36°F, SW wind 10-20
- 152 - T. Bishoff on site
- 155 - Bring UTV + dozer to GW-4
- 1754 - Change over to 10" core barrel, new bit
- 1821 - Begin core run #1 at ~28'
- 1912 - lost circulation @ 38.7'
- 1915 - End run 1 @ 38'
- 1933 - Begin run 2 @ 38'
- 1950-0954 - Core Barrel blocked @ ~40' pull core
- 1004 - Begin run 3 @ 40'
- 1011 - Dave S. NYSDEC, on site
- 1003 - End run 3 @ 48', lost ~900 gal total, cut water, pull tools
- 1023 - Trip in learning tools
- 1029 - Tools in, make water run
- 1038 - Transfer water
- 1045 - Dave S off site
- 1046 - Water transferred
- 1047 - Begin remaining GW-4A at 29'
- 1073 - at 34' used ~450 gallons, add 5' prod ~90 gal/Ft
- 1057 - out of water @ 38' used ~550 gals for 3' = 180 gal/Ft
- 1077 - at water truck - empty, T. Bishoff has truck blocked (kept his keys in his truck - attempt to get into river)
- 10426 - T. Bishoff gets truck open, move truck, for water
- 10429 - Fill water truck
- 10429 - Water truck returns, transfer water to AT
- 10521 - finish up, secure site
- 10537 off site

*[Handwritten signature]*  
1/11/02

13 all parties on site, WX: 23°F cloudy  
E wind 5-15 mph  
2 at GW-4

1- Begin finally to get resume rearing GW-4A  
1- Dave S. NYSDEC on C, G  
1- @ 46 used 1,000 gals today for ~ 8, 2,000 @  
1- Transfer water  
1- Return

17- Resume Reaming  
1- at 50 used 2400 - 2500 gallons rearing  
11 tools

1- Tools out install 10' screen and 45' Riser  
1- Begin sandpack  
1- Seal to 37.8  
2- Seal to 29.5' extra thickness because of  
4 level fractures, do not want to fill with  
mud

31- Tremie Grout  
17- Tremie 2nd Batch  
41- Top off GW-4B, continue topping 4A

2- Clean up and move  
5- @ decom 6 of 7 Broken tracks  
7- Dave S. NYSDEC off site  
5- Begin Steaming  
2- End decom, water run  
8- Water truck back

3- Transfer water move ATV to repair  
situation  
6- Secure site  
2- off site

*John D.* 1/14/04

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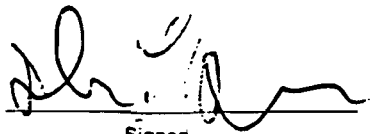
Signed \_\_\_\_\_

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- 711 on site; wx, rain 35° F, 15-25 mph east wind, parking lot a sea of mud, JD stuck
- Begin changing tracks
- 0723 - JD get on stuck
- 1736 - JD checks marks out at Rowley Hollow and Old Farm - cable only
- 1755 - return to site
- 1828 - Dave S. NYDEC on site, JD informs Dave marking, Dave informs JD that he spoke to National Fuel Personnel, no gas at well location
- 1906 - Tractor repaired bad grout
- 1936 - at GW 4A - finish grouting
- 1952 - GW-4A finished secure & Move to GW-5
- 1990 - set up at GW-5A
- 2012 - Begin Augering GW-5A
- 2058 - Bedrock @ 25' 11" pull 4 1/4"
- 1145 DEC collected samples 6-8, 18-20, 24-25'
- 1113 4 1/4s out, replace all 5 teeth on bar 8 1/4"
- 2010 Begin Augering - 8 1/4"
- 1127 Dave S. NYDEC, off site to lab + checks residential sites for mark out
- 1140 Auger Refusal @ 23.5' Trip in 7 1/8"
- 1155 - Begin Reaming GW-5A @ 22.5'
- 1204 - Rig clutch out, continue drilling
- 1221 - lost circulation @ 33.5'
- 1304 - Reamed 2.5 - 3 pull tools
- 1314 - install casing
- 1353 - casing installed, mix grout
- 1353 - tremie 1st batch grout
- 1518 - transmission jammed in gear, front end angle hole, can't lift augers
- 1604 - cut chain drive on Kelly bar so gear box can spin, use head to lift augers out
- 1707 - pull auger, tremie grout
- 1719 - augers out, mix 2nd batch
- 1724 - tremie 2nd batch

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1/15/02

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Date

- 1- granted to sir & co
- 1- drain hoses etc winterize
- 1- Secure site, pack up at parking lot, h. Schroeder calls office for on what BDC can do tomorrow (1/16/02)
- 1- BDC will make a different ATV rig on 1/16/02
- 1- No new tanks at Old Farm, sewer & water
- 1- Lowley Hollow
- 8- P. & C. Duzel, leave message, update on actions, plan for Wed, 1/16/02
- 1- messages about activities on 1/16/02

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1/15/02

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Date

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PROJECT Old Land Rec 36000.01

Notebook No. \_\_\_\_\_

Continued From Page \_\_\_\_\_

- 751 on site w/ X: Partly Cloudy - 1E (0-5 mph) N wind 28°
- transfer H<sub>2</sub>O, replacement rig due at 0900 - L
- broader on radio to check on ETA for truck rig
- 7816 Water transferred - driller walks back to work
- broken rig
- 1040 - Dave S NYSDEC on site
- 106 - rig up to staging area
- 117 - T. Bishop on site
- 1435 - Truck mount arrives
- 1438 - Dave S and J. O take J. Gaudin to view
- pulling locations
- 1451 - Get drilling plan return to staging
- 1456 - Return to staging area; driller to stage gear
- 1458 - Done
- 1504 - M. Gutman on site, drops off utility clearance
- sheet
- 1507 - Gutman departs site
- 1508 - driller's strain rig and equipment for road dirt
- 1520 - water run
- 1523 - J. Graczyk BDL on site Finish down, load
- 1535 - how Boyd and ATY arrives at staging - no room
- 1538 - J. O moves to old Farm site
- 1544 - Dave S at Old Farm
- 1555 - Dave S goes to #51, just moved in, briefing
- it sheet
- 1557 - Rig arrives will have to cut some overhead
- 1548 - SP179 GW 28A
- 1557 - Sampled to 26' driller go over to Stage for rock
- 1528 - driller: 2 to 11 w. 15' of rock
- 1514 - L skinned himself GW-28A and Driller
- 1552 - End at 36, driller's take cuttings to Staging
- 1503 - off site

*[Signature]* 11/16/07

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7 on site; wx: 32° F 14. Sw wind, hot 30MPH  
on snow floovies

1- Dave S, NY 5 DEC, Driller arrive on site

- Auger to 36' and resume ops

3- Hit rock at 36.2', Dave S collects 2 oz Sample

1- Dave S off site

5- Run 2' water to make ROCK Socket

1- Driller make arrangements to secure smaller

Ways truck, off site

Driller and water truck return

Begin reaming GW-8A

Dave S, on site

Rod or bit plugged, no circulation, pull tools

Bit sets plugged, driller cleaning jets

Jets cleared, re-install tools, resume drilling

Finish reaming rock socket GW 8A @ ~38.5'

tools

3- Driller go to Staging to pick water & Grout

casing

- Dave S off site

Driller return

- Tremie grout, will insert casing into grout

- ~100 gallons grout tremied, install casing

3- Augers out, 1000' up for decou pad

- Dave S on site

1- Schroeder on site - finished casing GW-5A

~1000 gallons reamed 3'; driller and dog

run glass over to decou and leave it there

- 5 B, 5 screen 17.5-22.5m sand to 15.4 sed

13.3

2 off site

*DR 1/17/02*

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Date

1/18/02

PROJECT Old Land Rec 36000.01

Notebook No. \_\_\_\_\_

Continued From Page \_\_\_\_\_

- 714 all parties on site w/ 23° F SW wind 75-35 mph, Snow Flurries
- Warm up vehicles, equipment, will need to get water, then decon
- 737 - Check valve on Inhydrant Fixture apparently frozen, propane didn't thaw, pull truck to heat up
- 7810 - Done S N/5DEC on site
- 817 - Valve Thawed Fill water truck
- 835 - Begin steering truck w/ augers
- 921 - Finish decon, load vehicles - other dull crew has been and is still fixing broken tracks
- 955 - leave staging area
- 973 - Arrive Rowley Hollow - set up
- 986 - Begin GW 9A
- 1000 - drillers take cuttings to staging bring back by 1030
- 1006 - drillers return w/ rock augers
- 1015 - apparently on rock @ 31.5 will attempt to continue
- 1016 - on rock, pull plug
- 1044 - Plug out, secure auger head, clay tamper seal to lock GW-8A
- 1503 at decon, secure and download equipment
- Schwedley informs J. De Dore S, that he still has to ream GW-5A and set well. He'll come in on 1/19/02 - Dave S asks J.D. to come to site. J.D. forms Dave due to prior commitments cannot get to site before 1030, Dave S OK's move
- See additional 6000 gallons @ GW-5A
- total 3,500 gallons

del R 1/18/02

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4 ID on site; WX 72°F, SW wind 15-20 mph

5-1 ID with rig, with pump in repair shop  
drilling

off site. Dave S has been on site  
for 4 levels (FT TO FC)

Well	level
2A	21.57 but obstructed
2B	23.08
3A	30.78
3B	30.47
4A	24.94
4B	28.53
5B	17.02
6A	11.96
7A	8.23

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1/19/02

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12/1/07

PROJECT Oldland Rec 36000.01

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Continued From Page \_\_\_\_\_

714, J.D., Joe G. & Rob on site, warm up and prep vehicles, WX 28°F lit SE wind 5-10 mph clouds light snow

Drillers have to load tools & equipment; get water & bring everything to Rowley Hollow site - GW-9A

7800 Rig at GW-9A

804 Done S. NYSDDEC, on site, drillers go for water truck

825 - Water truck on site

830 - Set up

8923 - Begin ream rock socket GW-9A

902 Water truck off site get water, water leaking around auger joint, running on water tub and rig tank

9018 - Shut down out of water

941 - Water truck back, resume reaming GW-9A lost ~300 gallons into rock for 0.8'

937 - Water truck out for more water - rig continue until dry, used ~600 gallon for 1'

949 JD calls Mr. Gutman, Diesel - have messages concerning well development, progress

956 Water truck returns resume reaming, but we are reaming now very hard, ~3" and 300 gal/hr

950 - Water run

934 - GW-5A complete used ~700 gallons total 9 green 50-40, send to 37.7, seal to 31.3, grout to surface

947 - Water truck returns did ~9" last run ~6" per

921 - Reaming complete to ~365', lost ~800 gallons. Jack, drillers go for casing grout after pulling tools

934 - tools, drillers depart

956 - drillers return with grout and casing

945 - casing in and grouted pull auger

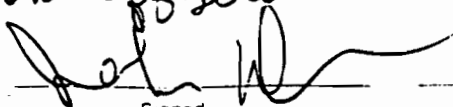
902 - Auger out, pick up clean up mess all to Stager

914 - drill wash sheet at well head

940 - off site

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 1/21/02

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- J.D on site 28°F moderate west wind clear
- Drillers on site, water run, stage equipment on pad.
- 4- Water truck returns - driller tops off at GW-9A
- GW-9A topped off begin steaming
- 7- J.D. departs site to phone C. Dusek, will meet later at GW-8A
- 4- C. Dusek discusses development options, strategies
- 4- Return to GW-8A, rig on site driller back
- Water truck, support truck
- 2- Water truck arrives, set up
- 8- K. Glaser NYSDEC on site
- begin reaming out grout at 16'
- 9- @ 38.5' clear hole
- Change over for coring, K Glaser off site
- 9- Begin core run #1
- 5- No progress, not cutting, brand new bit, driller pull tools to check out reasons
- tools out, new bit trashed, trip 5 7/8 tri core
- attempt to ream
- Start reaming
- leaned 0.5' pull tools change to core
- Attempt to core
- Core bit advancing - core run #1 39'
- add 2' rod - attempt to core 11' run
- End coring @ 41.5' loss = 1200 gallons
- Trip in reaming tools
- 1- Begin reaming GW-8A
- K Glaser over site
- M. Forucci, NYS DOT
- Water truck off to reFill
- M. Forucci off site
- at 50.5' stop clean up, secure site
- off site

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1/23/02

PROJECT Oldland Rec 36000.01

Notebook No. \_\_\_\_\_  
Continued From Page \_\_\_\_\_

- 1713 - ID on site, WX ~ 45°F; windy 15-25 mph low  
drillers load drums etc, well supplies
- 1722 - at GW - 8 A
- 1734 - Check H<sub>2</sub>O level - 14.03' TOC, not losing  
water continual dripping
- 1744 - Hole clean to 50.0, will drill 2' check for  
water loss
- 1753 - Resume drilling
- 1822 - Dave S on site continue cleaning to 60'  
if no water loss stop - call office @ 20930  
to inform of 3 way call
- 1834 - Dave S off site
- 1918 - off site to call C. Dusek
- 1923 - call C. Dusek - no solution yet call back
- 2932 - Return call, C. Dusek, D. Herhardt, state  
as not made decision
- 1006 - Return to site at ~ 566'
- 1127 - Dave S returns to site - NYSDEC requests clean  
well as much as possible, containerize water  
then surge block - driller will go to shop for  
surge block.
- 1156 @ 60', pump drill water to drums
- 1201 - Wash hole
- 1222 - hole cleaned & water containerized
- 1225 - driller off site
- 1225 - driller return with surge block
- 1327 - pull rods
- 1340 - install surge block and rods
- 1346 - Begin surge blocking hole
- 1430 - Stop surging, pull tools
- 1441 - Water 12.02' TOC
- 153 - off site to office, Note Dave S requested, incl.  
all that could be done, let's not  
put any more money in  
this well

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- 3 - 2.D. on site; WX 39° F, Foggy light - 0-5 Miles
- 2 - driller arrive GW-8A - check water el. 11.96 TOL
- 1 - will set well
- 1 - driller cut casing - Note because of relatively close water readings consecutively, station actually be at in overburden indicating contact between aquifers and confined by overlying clay
- 5 - install 20' screen, 40'-60', Top of rock at 36' 40' rises
- 1 - install sand pack
- 3 - Sand to 37.8 twisted seal
- 9 - seal to 34.3, driller go for grout & water being displaced up and out of well casing, indicative of not being absorbed in the formation
- 10 - driller return
- 13 - mix grout
- 17 - tremie grout
- 4 - Grout tremied, clean area, wash street
- 3 - move to GW-9A, rig to GW-9A, Rowley Hollow; driller get in, bring tools etc.
- driller on site set up to core
- begin reaming grout
- on rock, containize grout water, charge over
- 3 - begin core run 1 @ 31.5'
- 1 - at 32' core bit bending - pull tools - ream - begin reaming @ 32'
- bit trashed, quit all bits, will ream 1 to 33'
- 1 - go and set Flush Mount on GW-8A and
- 2 - Water truck off site to get sackrete, road Box wash hole, clean up area
- at GW-8A install Flush Mount
- off site to office

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1/25/02

PROJECT Old Land Rec

Notebook No. \_\_\_\_\_

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- 1708 JD on site; WX 28°F SW wind 10-20 mph
- Note on 1/23 - Dave S decides that any further attempts
- 1709 GW-8A are too expensive, we will ~~be~~ try to increase productivity of well during development, but no further drilling
- 1739 drillers arrive, filled water truck etc
- 1740 drillers have one new bit, last new bit failed on
- 1741 try on GW-8A, if new bit fails then only recourse is drilling with tricone
- 1742 311 begins coring @ 33'
- 1743 5820 Dave S on site
- 1744 8:35, Dave S off site, Dave S would like at
- 1745 more than 20' coring and reaming, regardless see
- 1746 well if no water/loss after 20'
- 1747 End run 1 @ 42', loss of return
- 1748 Begin run 2 @ 42', still have return loss,
- 1749 @ 42' unknown
- 1750 losing some water will core to 45' (3') a
- 1751 no
- 1752 Core Block @ 44' will tools then ream to 4
- 1753 Begin Reaming 31.5 - 45'
- 1754 drilling do not have enough sand on site
- 1755 construct well
- 1756 at 45.5' wash hole
- 1757 Pull rods, ~ 2' of fill in bottom, no place to
- 1758 wash it to
- 1759 Tools out, clean up well head
- 1760 Move vehicles, wash well head area
- 1761 area washed down, move rig to staging area
- 1762 Move the rest to staging area, decom
- 1763 Store and stage tools, skid area
- 1764 K. G. Glass off site
- 1765 K. G. Glass on site
- 1766 off site

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- 0. J.D at office mob for development
- 1- depart office
- 2- on site, wx sunny 48°f 15-25 mph, SW wind
- 6. Drillers and Dave S on site, load well materials
- 1 at GW-9A, prepare to set well
- 3 water at 22, 24' TOC - GW-9A ~ 20.75' BGS
- 1- Check TD ~ 41.5' BGS, soft ~ 3.5' Fill in
- 1- cut casing
- 3- Casing cut install 10' #10 slot, 5" PVC and rise 135'
- 6.1 Screen and riser, installed, begin sand pack
- 1 Sand to 30.9, add seal,
- 5 Seal to 26.5" Mix grout
- 6. Drillers go for water truck & rig to trench
- 2- Drillers back
- 1- Mix ~ 45 gal, - 3 Bag mix
- 8- Trench grout
- 1- Grout Trench
- 1- Wash down street
- 1- at staging, drillers to take care of decompad
- 1- drillers down decon fluids, drillers will pull plastic and bag for trash disposal as per Dave S
- 2- drillers finish pumping and decon pad - 4 drums, valued
- drillers depart to install flush mount GW-9A
- 5- Dave S wait for S. McCabe
- 1 @ GW-3
- at level (6' TOC) 3A - 30.35 3B - 28.18
- Begin bailing both wells
- End at GW-3, bailed ~ 8 gal 3A, bailed & pumped ~ 25 gal 4A
- GW 4 - B = 22.15' TOC, TD = 28.78 = 6.63 gal
- GW 4A - 25.09' TOC, TD = 52.21, bottom Fir 24
- Begin purging, bailer A, pump B
- after 5 hrs bail in 4A water clean
- stop pumping 4B after 30 gals
- 2 GW-5A 21, 29' TOC, TD = 52.82' Fir 24

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1/28/02

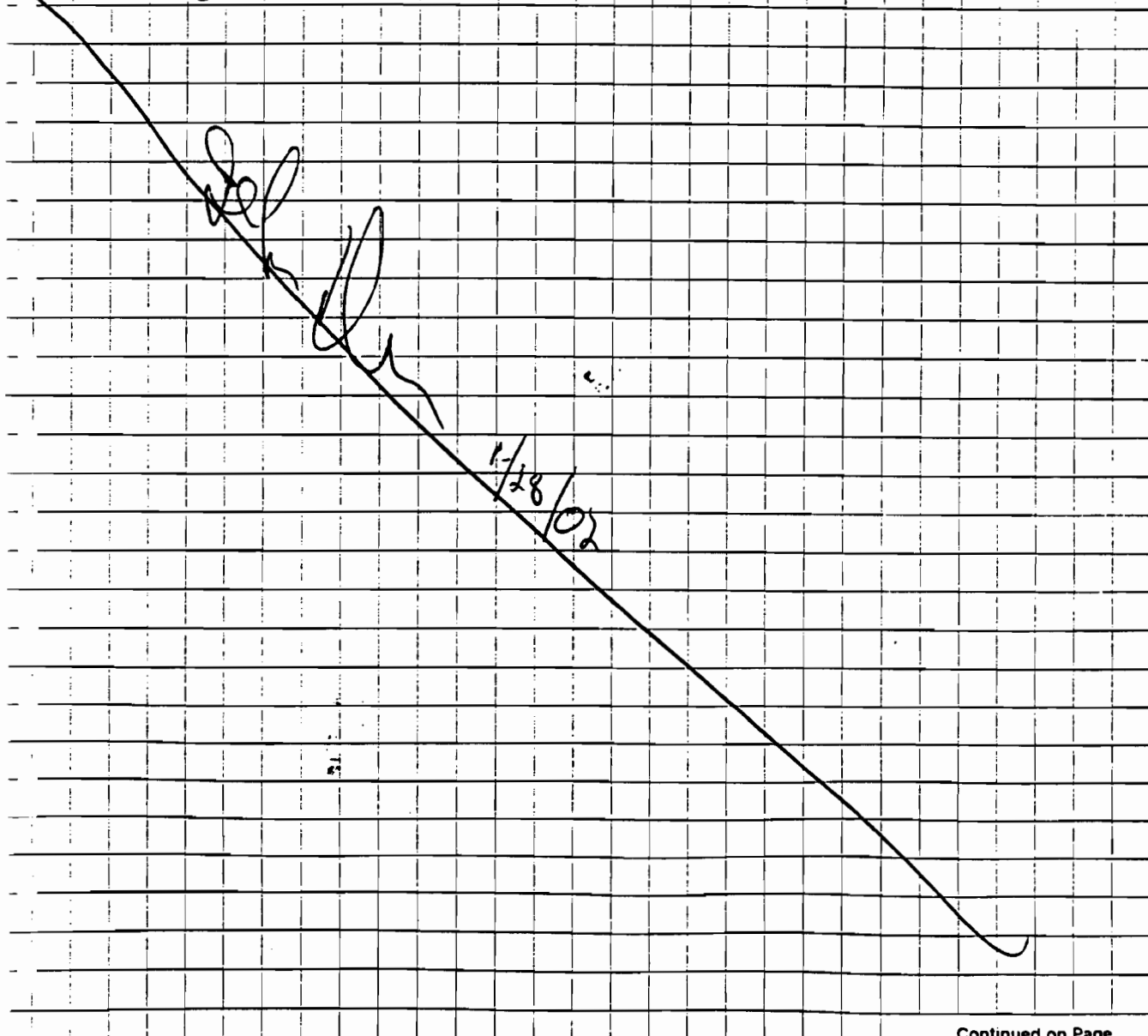
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PROJECT Old Land Rec 36000 01

Notebook No. \_\_\_\_\_

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1.13 GW-5B - 16.65 TOC, TD 24.26 TOC = 7.81  
 1.535; 5B ~ 75 sec to pump 1 well vol then dry wait  
 1.5 min and same, 5 vol so far for 5A slightly  
 cloudy, bailed to clarity in 5 gals  
 1.05 GW-5B has opened up, making sufficient  
 water to pump 3+ vols. will continue in A  
 source site  
 well off site



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- 3 J.D. on site, WX: 90°F, Lt NW wind 5-10mph Cloudy
- 4- Call into C. Dugel leave update
- 8- Drillers on site, local trash
- 26- Drillers off site with trash
- 34- Dave Gov site - load up
- 50 - at GW-5
- 55 - Take water levels, TDS
- 2 - Begin GW-5A
- 4 - Begin GW-5B
- 0 - Water level 5A - 23.25 TOL, started @ 21.26
- 20.53 but rising
- 0 - Shut off pumps to prevent overheat as per the manufacturer's specs will give pumps, 5 min -
- 5 - resume pumping 5A, 5B, pulled 20+ gallons, 1/28/02, 20 gallons this morning, never stopped pumping 40 gallons = ~ 31 well volumes
- 10 - end development GW-5B after discussion with Dave S, Turbidimeter not working Dave S final call on clarity for development -
- end development 5A ~ 11 well vol
- 7 - off GW-5
- 2 at 0 GW-4
- 24 - 4 water levels
- 6 - Begin 4A, 4B
- 4 - Water level 4B = 23.18, 4A = 25.75
- 2 - End development 4B - 55 gals = 50 well vol.
- A Pump 4A
- e water from bedrock wells has black tint, slight odor
- 7 end development 4A ~ 1/2 well vols
- 2 GW 3, water levels
- 3 Begin development
- 8 End development 3B, 3A still turbid
- 7 End development 3A, 100 gallons
- off site to Old Farm Rd GW-8A
- GW A water level 31.78 TOL 59.66 - soft

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Old Land Rec 1/29/02

PROJECT 36000.01

Notebook No. \_\_\_\_\_

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Well 5A level 17.26 TD 52.81 vol 5.1					Well 115B level 16.57 TD 24.70 vol 1.02				
Vol	Temp	Cond	pH	NTU	Vol	Temp	Cond	pH	NTU
9	51.6	2.05	8.4		10	54.3	1.31	6.8	
5	52.9	1.88	7.3		14	55.1	1.29	6.7	
2	54.0	1.85	6.6		17	55.3	1.40	6.4	
15	54.5	1.86	6.4		20	55.4	1.32	6.3	
22	54.7	1.83	6.3						
20	53.3	1.86	6.2						
25	53.5	2.12	6.6						
30	53.6	2.13	6.7						
45	53.8	2.15	6.7						
70	53.7	2.04	6.1						
GW-4A level 14.81 TD 52.21 vol 14.5					GW-4B level 13.205 TD 28.1 vol 1.19				
5	51.6	2.22	7.8		30	54.5	1.84	7.4	
10	54.9	2.33	7.0		33	55.1	1.85	7.2	
15	54.9	2.22	6.6		36	55.1	1.91	7.0	
20	52.5	2.16	6.6		39	54.8	1.80	6.8	
25	53.9	2.15	6.6		45	55.5	1.86	6.8	
30	54.4	2.14	6.6		48	55.3	1.86	6.7	
35	54.6	2.16	6.6		53	55.7	1.89	6.7	
40	54.6	2.16	6.6						
45	54.1	2.18	6.6						
50	54.2	2.19	6.6						
GW-3A level 13.37 TD 52.43 vol 13.6					GW-3B level 12.29 TD 35.13 vol 1.19				
48	55.0	2.32	7.5		25	54.4	1.75	7.7	
16	55.0	2.32	7.5		30	54.9	1.76	6.9	
18	55.2	2.36	6.8		35	54.9	1.83	6.7	
23	55.2	2.40	6.5		40	54.7	1.81	6.5	
28	55.4	2.43	6.5		45	55.2	1.82	6.5	
33	54.5	2.31	6.5		50	55.7	1.84	6.5	
33	54.2	2.29	6.5		55	55.5	1.87	6.5	3A ↓
43	54.2	2.35	6.4		60	54.7	2.35	6.7	
48	54.0	2.35	6.6		68	55.1	2.24	6.7	
53	54.3	2.35	6.8		73	54.9	2.39	6.7	
58	55.1	2.28	6.6		78	55.0	2.34	6.7	
63	54.6	2.31	6.7		83				

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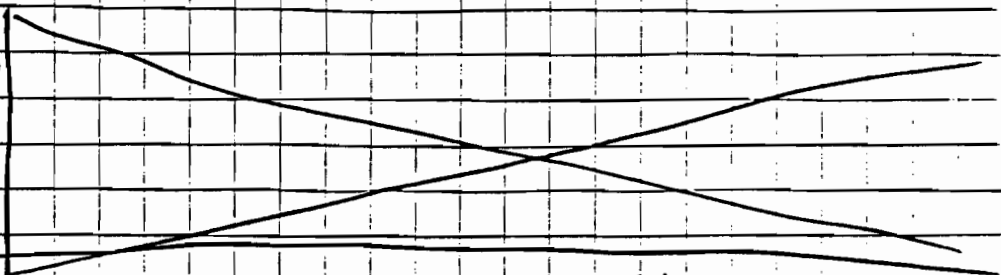
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- 3A

Temp	Cond	pH
55.1	2.37	6.7
55.3	2.38	6.7
54.0	2.38	6.7
55.1	2.37	6.7



8 checks 6W-9A Cowley Hollow  
 water level 77.04 to 77.66  
 8A 1 well vol = 4.5 gal 9A 1 vol = 3.5 gal  
 4 off site

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1/29/02

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1730/02

PROJECT Old Land Rec 360000/01

Notebook No. \_\_\_\_\_

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- 1752 J.D. on site, WX ~ 30°F w/ N. wind 5-10 snow
- 0909 DEC K. Glaser, Dave S on site had
- 0916 @ GW 9A
- 0925 Begin purging
- 0934 pump problem begin purging
- 1110 - well purged dry & gas level = 49.60 h  
rains back (~1.5 gal)
- 0958 call C. Dusek, discuss options for  
slow recovery i.e. J.D. stop to air from off
- 1226 - return to site well was purged by  
DEC - ~ 0.75 gallon
- 0948 - @ GW-9A water level
- 1053 - Begin pumping GW-9A
- 1111 have pumped over 1/2 well vol level 31.50  
and decreasing slowly
- 1118 level increased rapidly from 31.75 to 30.90
- 1231 recalibrate pH 10.47 7.3
- Note slight H<sub>2</sub>S odor
- 1230 check level prior to stop 37.30
- 1232 - end development as per K. Glaser - may  
be staging to pump out drums
- 1253 Transfer contents

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21.74 42.79

11 GW 8A-level 346 TD 576 9.5  
11 GW 9A level 7204 TD 42.66 vol 3.4

Temp	Cond	pH	Temp	Cond	pH	Vol
47.2	3.81	9.7	52.4	4.98	7.3	17
49.1	2.79	9.6	51.0	5.16	<del>10.42.3</del>	20
			51.4	4.95	<del>10.47.3</del>	24
			51.1	4.96	<del>10.67.5</del>	28
			50.7	5.12	<del>7.51.3</del>	32
			51.0	4.91	7.2	36
			51.0	4.86	7.2	40
			51.4	4.90	7.1	44
			50.8	4.88	7.1	48
			51.4	4.81	7.2	52
			50.8	4.79	7.1	56
			50.6	4.86	6.9	60
			51.2	4.85	7.0	64
			51.2	4.82	6.9	68
			51.3	4.80	6.9	72
			51.6	4.92	7.1	76
			51.8	4.95	7.1	80
			51.6	4.87	7.0	84
			51.4	4.91	7.1	88
			52.1	4.89	7.0	92

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FEB 29 2002

# WELL DEVELOPMENT LOG

URS CORPORATION

SITE NAME: Old Land Reclamation WELL NO.: GW-3A  
 PROJECT NO.: 05-00036000.01  
 STAFF: J. Doerr  
 DATE(S): 1/28/2002 & 1/29/2002

		WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>52.4</u>	1" 0.040
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>30.37</u>	2" 0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>22.06</u>	3" 0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4" 0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>3.75</u>	5" 1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	<u>11.25</u>	6" 1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>100</u>	8" 2.60

$V=0.0408 \times (\text{CASING DIAMETER IN INCHES})^2$

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	16	18	23	28	33	38	43	48	53	58
pH	7.5	6.8	6.5	6.5	6.5	6.5	6.4	6.6	6.8	6.8
SPEC. COND. (umhos)	2320	2360	2400	2430	2310	2280	2350	2350	2350	2280
TEMPERATURE °C	55.0	55.2	55.2	55.4	54.5	54.2	54.2	54.0	54.3	55.1
TURBIDITY	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
DISSOLVED OXYGEN (mg/L)										
ORP (mV)										

COMMENTS:  
 Removed 8 gallons of water on 1/28/02 using a weighted Teflon bailer. Water clear after 5 gallons. Resume development on 1/29/02 using a Whale submersible pump.

# DEVELOPMENT LOG

# URS CORPORATION

SITE: Old Land Reclamation WELL NO.: GW-3A  
 NO.: 05-00036000.01  
J. Doerr  
1/28/2002 & 1/29/2002

		WELL ID.	VOL. (GAL/FT)
CASING AND SCREEN LENGTH (FT.)	= <u>52.4</u>	1"	0.040
WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>30.37</u>	2"	0.17
NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>22.06</u>	3"	0.38
VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>3.75</u>	5"	1.04
VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	= <u>11.25</u>	6"	1.50
VOLUME OF WATER ACTUALLY REMOVED (GAL.)	= <u>100</u>	8"	2.60

$$V=0.0408 \times (\text{CASING DIAMETER IN INCHES})^2$$

DEPTH (FEET)	ACCUMULATED VOLUME PURGED (GALLONS)									
	68	73	78	83	88	93	98	100		
6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7		
DEPTH (umhos)	2350	2240	2390	2340	2370	2380	2380	2370		
TEMPERATURE °C	54.7	55.1	54.9	55.0	55.1	55.3	54.0	55.1		
WATER CLARITY	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		
DISSOLVED OXYGEN (mg/L)										

COMMENTS:  
 100 gallons of water on 1/28/02 using a weighted Teflon bailer. Water clear after 5 gallons. Resume development on 1/29/02 using a 2" diameter submersible pump.

# WELL DEVELOPMENT LOG

URS CORPORAT

SITE NAME: Old Land Reclamation WELL NO.: GW-3B  
 PROJECT NO.: 05-00036000.01  
 STAFF: J. Doerr  
 DATE(S): 1/28/2002 & 1/29/2002

			WELL ID.	VOL. (GAL/
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>35.1</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>29.29</u>	2"	0.1
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>5.84</u>	3"	0.3
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.6
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.99</u>	5"	1.0
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	<u>2.98</u>	6"	1.5
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>60</u>	8"	2.6

$$V=0.0408 \times (\text{CASING DIAMETER IN INCHES})^2$$

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)								
	30	35	40	45	50	55	60		
pH	7.7	6.9	6.7	6.5	6.5	6.5	6.5		
SPEC. COND. (umhos)	1750	1760	1830	1810	1820	1840	1870		
TEMPERATURE °C	54.4	54.9	54.9	54.7	55.2	55.7	55.5		
TURBIDITY	Clear	Clear	Clear	Clear	Clear	Clear	Clear		
DISSOLVED OXYGEN (mg/L)									
ORP (mV)									

COMMENTS:  
 Removed 25 gallons of water on 1/28/02 using a weighted Teflon bailer and Whale submersible pump.



# DEVELOPMENT LOG

# URS CORPORATION

SITE: Old Land Reclamation WELL NO.: GW-4A  
 NO.: 05-00036000.01  
J. Doerr  
1/28/2002 & 1/29/2002

		WELL ID.	VOL. (GAL/FT)
CASING AND SCREEN LENGTH (FT.)	= <u>52.2</u>	1"	0.040
WATER LEVEL BELOW TOP OF CASING (FT.)	= <u>24.81</u>	2"	0.17
NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>27.40</u>	3"	0.38
VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>4.66</u>	5"	1.04
VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	= <u>13.97</u>	6"	1.50
VOLUME OF WATER ACTUALLY REMOVED (GAL.)	= <u>50</u>	8"	2.60

$$V=0.0408 \times (\text{CASING DIAMETER IN INCHES})^2$$

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	5	10	15	20	25	30	35	40	45	50	
TEMPERATURE °C	7.8	7.0	6.8	6.6	6.6	6.6	6.6	6.6	6.6	6.6	
RESISTIVITY (umhos)	2220	2330	2220	2160	2150	2140	2160	2160	2180	2190	
TEMPERATURE °C	52.6	54.9	54.9	52.5	53.9	54.4	54.6	54.6	54.1	54.2	
APPEARANCE	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	
DISSOLVED OXYGEN (mg/L)											

NOTES:  
 5 gallons of water on 1/28/02 using a weighted Teflon bailer. Water initially murky and became clear after 5 gallons removed.

# WELL DEVELOPMENT LOG

URS CORPORATION

SITE NAME: Old Land Reclamation WELL NO.: GW-4B  
 PROJECT NO.: 05-00036000.01  
 STAFF: J. Doerr  
 DATE(S): 1/28/2002 & 1/29/2002

			WELL ID.	VOL. (GAL/FT.)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>28.9</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>22.05</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>6.85</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.16</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	<u>3.49</u>	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>55</u>	8"	2.60

$$V = 0.0408 \times (\text{CASING DIAMETER IN INCHES})^2$$

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)								
	33	36	39	45	48	53	55		
pH	7.4	7.2	7.0	6.8	6.8	6.7	6.7		
SPEC. COND. (umhos)	1840	1850	1910	1800	1860	1860	1890		
TEMPERATURE °C	54.5	55.1	55.1	54.8	55.5	55.3	55.7		
TURBIDITY	Clear	Clear	Clear	Clear	Clear	Clear	Clear		
DISSOLVED OXYGEN (mg/L)									
ORP (mV)									

COMMENTS:  
 Pumped 30 gallons of water on 1/28/02. Water clear. Resumed pumping on 1/29/02.

# DEVELOPMENT LOG

# URS CORPORATION

NAME: Old Land Reclamation WELL NO.: GW-5A  
 PROJECT NO.: 05-00036000.01  
 OPERATOR: J. Doerr  
 DATE: 1/28/2002 & 1/29/2002

		WELL ID.	VOL. (GAL/FT)
SCREEN LENGTH (FT.)	= <u>52.8</u>	1"	0.040
SCREEN LEVEL BELOW TOP OF CASING (FT.)	= <u>21.26</u>	2"	0.17
NUMBER OF FEET STANDING WATER (#1 - #2)	= <u>31.54</u>	3"	0.38
VOLUME OF WATER/FOOT OF CASING (GAL.)	= <u>0.17</u>	4"	0.66
VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	= <u>5.36</u>	5"	1.04
VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	= <u>16.09</u>	6"	1.50
VOLUME OF WATER ACTUALLY REMOVED (GAL.)	= <u>50</u>	8"	2.60

$$V=0.0408 \times (\text{CASING DIAMETER IN INCHES})^2$$

DEPTH (FEET)	ACCUMULATED VOLUME PURGED (GALLONS)										
	1	5	10	15	25	30	35	40	45	50	
8.4	8.4	7.3	6.6	6.4	6.3	6.2	6.6	6.7	6.7	6.7	
ND. (umhos)	2050	1880	1850	1860	1830	1860	2120	2130	2150	2040	
TEMPERATURE °C	51.6	52.9	54.0	54.5	54.3	53.3	53.5	53.6	53.8	53.7	
APPEARANCE	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Clear	Clear	Clear	Clear	Clear	
DISSOLVED OXYGEN (mg/L)											

COMMENTS:  
 Sample turned blackish in color in bucket.

# WELL DEVELOPMENT LOG

URS CORPORATI

SITE NAME: Old Land Reclamation WELL NO.: GW-5B  
 PROJECT NO.: 05-00036000.01  
 STAFF: J. Doert  
 DATE(S): 1/28/2002 & 1/29/2002

			WELL ID.	VOL. (GAL/FOOT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>24.7</u>	1"	0.048
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>16.57</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>8.13</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>1.38</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	<u>4.15</u>	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>20</u>	8"	2.60

$$V=0.0408 \times (\text{CASING DIAMETER IN INCHES})^2$$

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	10	14	17	20						
pH	6.8	6.7	6.4	6.3						
SPEC. COND. (umhos)	1310	1290	1400	1320						
TEMPERATURE °C	54.3	55.1	55.3	55.4						
TURBIDITY	Clear	Clear	Clear	Clear						
DISSOLVED OXYGEN (mg/L)										
ORP (mV)										

COMMENTS:  
 Pumped approximately 10 gallons on 1/28/02. Well went dry after 4 gallons. Resume pumping on 1/29/02.

# WELL DEVELOPMENT LOG

# URS CORPORATION

NAME: Old Land Reclamation WELL NO.: GW-8A  
 IDENTIFICATION NO.: 05-00036000.01  
 OPERATOR: J. Doerr  
 DATE: 1/29/2002 & 1/30/2002

		WELL ID.	VOL. (GAL/FT)
TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>59.66</u>	1" 0.040
WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>31.96</u>	2" 0.17
NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>27.70</u>	3" 0.38
TIME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4" 0.66
TIME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>4.71</u>	5" 1.04
TIME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	<u>        </u>	6" 1.50
TIME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>8</u>	8" 2.60

$V=0.0408 \times (\text{CASING DIAMETER IN INCHES})^2$

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	5	8								
TIME	9.7	9.6								
RESISTIVITY (umhos)	3010	2790								
TEMPERATURE °C	47.2	49.1								
WATER TYPE	Cloudy	Cloudy								
DISSOLVED OXYGEN (mg/L)										

COMMENTS:  
 4 gallons on 1/29/02. Well went dry. Removed 4 more gallons on 1/30/02 before well went dry again.

# WELL DEVELOPMENT LOG

URS CORPORATI

SITE NAME: Old Land Reclamation WELL NO.: GW-9A  
 PROJECT NO.: 05-00036000.01  
 STAFF: J. Doerr  
 DATE(S): 1/29/2002 & 1/30/2002

			WELL ID.	VOL. (GAL/
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>42.7</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>22.04</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>20.62</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>3.51</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	<u>10.52</u>	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>92</u>	8"	2.60

$$V=0.0408 \times (\text{CASING DIAMETER IN INCHES})^2$$

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	17	20	24	28	32	36	40	44	48	52
pH	9.3	7.3	7.3	7.5	7.3	7.2	7.2	7.1	7.1	7.2
SPEC. COND. (umhos)	4980	5160	4950	4960	5120	4910	4860	4900	4880	4810
TEMPERATURE °C	52.4	51.0	51.4	51.1	50.7	51.0	51.4	50.8	51.4	50.8
TURBIDITY	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy
DISSOLVED OXYGEN (mg/L)										
ORP (mV)										

**COMMENTS:**

Removed 8 gallons of water on 1/28/02 using a weighted Teflon bailer. Water clear after 5 gallons. Resume development on 1/29/02 and 1/30/02 using a Whale submersible pump.

# WELL DEVELOPMENT LOG

# URS CORPORATION

SITE: Old Land Reclamation WELL NO.: GW-9A  
 NO.: 05-00036000.01  
J. Doerr  
1/29/2002 & 1/30/2002

	=		WELL ID.	VOL. (GAL/FT)
CASING AND SCREEN LENGTH (FT.)	=	<u>42.7</u>	1"	0.040
WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>22.04</u>	2"	0.17
NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>20.62</u>	3"	0.38
FEET OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
FEET OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>3.51</u>	5"	1.04
FEET OF WATER TO REMOVE (GAL.)(#5 x 3)	=	<u>10.52</u>	6"	1.50
FEET OF WATER ACTUALLY REMOVED (GAL.)	=	<u>92</u>	8"	2.60

$$V=0.0408 \times (\text{CASING DIAMETER IN INCHES})^2$$

DEPTH (FEET)	ACCUMULATED VOLUME PURGED (GALLONS)										
	60	64	68	72	76	80	84	88	92		
DEPTH (FEET)	6.9	7.0	6.9	6.9	7.1	7.1	7.0	7.1	7.0		
TEMPERATURE (umhos)	4860	4850	4820	4800	4920	4950	4870	4910	4890		
TEMPERATURE °C	51.6	51.2	51.2	51.3	51.6	51.8	51.6	51.4	52.1		
WATER CLARITY	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		
DISSOLVED OXYGEN (mg/L)											

TESTS:  
 3 gallons of water on 1/28/02 using a weighted Teflon bailer. Water clear after 5 gallons. Resume development on 1/29/02 using a Whale submersible pump.

**URS CORPORATION**

282 Delaware Avenue  
Buffalo, New York 14202 (716)-856-5636 FAX: (716) 856-2545

Letter of Transmittal

To: David S. Szymanski  
NYSDEC - Region 9  
270 Michigan Avenue  
Buffalo, NY 14203-2999

Date: 3/25/02 Job No.: 05-36000.01  
Re: Old Land Reclamation Site  
WA #D003825-36

PLEASE REFER TO THE TRANSMITTAL NUMBER  
ALL FUTURE CORRESPONDENCE

We are sending you  Attached  Under Separate Cover the following items:

- Shop Drawings
- Prints
- Plans
- Specifications
- Copy of letter
- Change Order
- 

**RECEIVED**

MAR 26 2002

NYSDEC - REG. 9  
FOIL  
 REL  UNREL

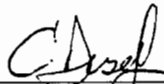
COPIES	DRAWING NO.	DATE	DESCRIPTION
2 each			Revised Test Boring Logs
2 each			Revised Well Construction Details

THESE ARE TRANSMITTED as checked below:

- For approval
- For your use
- As requested
- For review and comment
- FOR BIDS DUE \_\_\_\_\_ 19 \_\_\_\_
- No Exceptions Taken
- Revise as Noted
- Amend and Resubmit
- Rejected - See Remarks
- Resubmit \_\_\_ copies for approval
- Submit \_\_\_ copies for distribution
- Return \_\_\_ corrected prints
- \_\_\_\_\_
- PRINTS RETURNED AFTER LOAN TO US

Remarks:

Copies to: File: 36000.01 (C-1)

  
Charles E. Dusel, Jr.  
Project Manager



**URS Corporation**

**TEST BORING LOG**

PROJECT: Old Land Reclamation

BORING NO: GW-3A

CLIENT: NYSDEC

SHEET: 1 of 2

BORING CONTRACTOR: Buffalo Drilling Company

JOB NO.: 05-00036000.01

GROUNDWATER:

BORING LOCATION:

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
						Split spoon	NX	
				DIA.		2"	2"	
				WT.		140#	-	
				FALL		30"	5'	
					* POCKET PENETROMETER READING			

DATE STARTED: 12/19/01

DATE FINISHED: 12/21/01

DRILLER: M. Gersten

GEOLOGIST: J. Doerr

REVIEWED BY: D. Lenhardt

DEPTH FEET	STRATA	SAMPLE				DESCRIPTION				REMARKS	
		NO.	N NO.	BLOWS PER 6"	RECOVERY RQD	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	PID	MOISTURE
	[Cross-hatched pattern]	1	11	2 5 6 7	0%	Brown to Dark Brown Dark Gray to Black	Medium Dense Loose Medium Dense	No Recovery, cobble in shoe	GW	0.0	Very Moist Moist Wet
		2	6	WoR 3 3 50/3	10%			2.0-26.0: FILL, Wood, some silt, clay, metal, ceramic, plastic, brick, paper and cardboard		0.0	
5		3	8	1 4 4 3	40%					0.0	
		4	26	5 21 5 6	30%					0.0	
		5	15	3 5 10 21	50%					0.0	
10		6	24	7 11 13 7	25%					0.0	
		7	-		-			No Sample, augered through wood			
15		8	-		-						
		9	17	5 8 9 16	10%					0.0	
20		10	-		-			No Sample, augered through wood			
		11	-		-						
25		12	22	5 7 15 7	15%					0.0	
26		13	34	2 18 16 18	10%					0.0	
	14	20	2 9 11 21	25%	Dark Gray	26.0-29.0 Fine to coarse SAND and fine to coarse angular to subangular GRAVEL	GW	0.0			
29	15	12	2 4 8 18	10%		29.0-32.0: Silty CLAY, some fine to coarse angular gravel; auger chatter at 32' on rock, able to auger 1' to 33'	CL	0.0			
30	16	25	16 18 7 6	10%				0.0			
32					Dark Gray to Gray	Hard	32.0-50.0: Onodaga Formation, Moorehouse Limestone member Very finely to coarsely crystalline, some to trace chert	Br to Bl			

Comments: Note reamed with 7 7/8 inch bit; 33' to 36'.

PROJECT NO. 05-00036000.01

BORING NO. GW-3A

URS Corporation							TEST BORING LOG					
PROJECT: Old Land Reclamation							BORING NO: GW-3A					
CLIENT: NYSDEC							SHEET: 2 of 2					
							JOB NO.: 05-00036000.01					
DEPTH FEET	SAMPLE					DESCRIPTION					REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"	RECOVERY RQD	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	PID	MOISTURE	
40	[Brick pattern]	1	Core	4.9 5.0	84%	Dark Gray to Light Gray	Hard	32.0-50.0: Onondaga Formation, Moorehouse Limestone member Very finely to coarsely crystalline, some to trace chert	BR to BI	0.0	Wet	
45		2	Core	4.7 5.0	92%				BI	0.0		
50		3	Core	3.6 4.0	86%					0.0		
55								End boring at 50' BGS				
60												
65												
70												
75												
Comments: Boring advanced utilizing an ATV mounted CME 550 drill rig with 8 1/4 inch HSA, and 2" split spoon samplers. Bedrock portion cored with 2" NX barrel and reamed to 6". No samples were submitted for analysis.							PROJECT NO. 05-00036000.01					
							BORING NO. GW-3A					

**URS Corporation**

**TEST BORING LOG**

PROJECT: Old Land Reclamation					BORING NO: GW-3B					
CLIENT: NYSDEC					SHEET: 1 of 1					
DRILLING CONTRACTOR: Buffalo Drilling Company					JOB NO.: 05-00036000.01					
GROUNDWATER:					BORING LOCATION:					
DATE					CAS.	SAMPLER	CORE	TUBE	GROUND ELEVATION:	
LEVEL						-			DATE STARTED: 12/20/01	
TYPE						-			DATE FINISHED: 12/21/01	
TYPE						-			DRILLER: M. Gersten	
DIA.						-			GEOLOGIST: J. Doerr	
WT.						-			REVIEWED BY: D. Lenhardt	
FALL						-				
* POCKET PENETROMETER READING										

DEPTH FEET	SAMPLE				DESCRIPTION							REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"	RECOVERY RQD	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	PID	SIGNATURE		
5								Augered to 32.4' BGS, see log for GW-3A					
10													
15													
20													
25													
30													
35								Boring ended at bedrock at 32.4' BGS					

Comments: Boring advanced utilizing an ATV mounted CME 550 drill rig and 4 1/4 inch					PROJECT NO. 05-00036000.01				
3A. No samples collected. See log for GW-3A					BORING NO. GW-3B				

URS Corporation										TEST BORING LOG				
PROJECT: Old Land Reclamation										BORING NO: GW-4A				
CLIENT: NYSDEC										SHEET: 1 of 2				
BORING CONTRACTOR: Buffalo Drilling Company										JOB NO.: 05-00036000.01				
GROUNDWATER:										BORING LOCATION:				
CAS. SAMPLER CORE TUBE										GROUND ELEVATION:				
DATE	TIME	LEVEL	TYPE	TYPE		Split spoon	NX			DATE STARTED: 01/08/02				
				DIA.		2"	2"			DATE FINISHED: 01/14/02				
				WT.		140#	-			DRILLER: L. Schroeder				
				FALL		30"	10'			GEOLOGIST: J. Doerr				
* POCKET PENETROMETER READING										REVIEWED BY: D. Lenhardt				
DEPTH FEET	SAMPLE						DESCRIPTION						REMARKS	
	STRATA	NO.	N NO.	BLOWS PER 6"	RECOVERY RQD	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	PID	MOISTURE			
	[Cross-hatched pattern]	1	16	2 10 6 3	10%	Brown/Black	Medium Dense	0.0-2.0: FILL: Silty Clay, some wood, trace fine gravel		0.0		Very Moist		
		2	15	7 5 10 7	20%	Black Dark	↓ Very Dense	2.0-24.0: FILL: Wood, some silt, clay, metal, ceramic, plastic, brick, paper and cardboard		0.0		Moist		
5		3	>56	5 6 50/4	0%	Brown Dark Gray to Black	↓ Dense			0.0				
		4	0					No Sample, augered through wood					↓ Wet	
10		5	20	4 5 15 50/2	20%		Medium Dense			0.0				
		6	22	14 14 8 7	20%					0.0		Very Moist		
		7	24	35 14 10 6	10%					0.0				
15		8	0					No Sample, augered through wood						
		9	21	14 12 9 7	40%					0.0				
20		10	10	6 4 6 5	5%		Loose			0.0				
		11	15	5 7 8 8	10%		Medium Dense			0.0				
24		12	0					No Sample, augered through wood						
25	[Circular pattern]	13	14	4 6 8 8	20%			24.0-26.6: Fine to coarse angular Gravel, some silt and sand	GW	0.0		Wet		
26.6		14	>50	14 50/4	20%	Dark Gray to Light Gray		Auger refusal on top of rock at 26.6'		0.0				
30	[Brick pattern]							26.6-50.0: Onondaga Formation, Moorehouse Limestone member						
					7.6 8	30%		Very finely to coarsely crystalline, some to trace chert	V. Br to Br	0.0				
35		1	Core											

Comments: Reamed from 26.6' to 29.5 with 7 7/8 inch bit.

PROJECT NO. 05-00036000.01

BORING NO. GW-4A

URS Corporation

TEST BORING LOG

PROJECT:	Old Land Reclamation	BORING NO.:	GW-4A
CLIENT:	NYSDEC	SHEET:	2 of 2
		JOB NO.:	05-00036000.01

DEPTH FEET	SAMPLE					DESCRIPTION				REMARKS		
	STRATA	NO.	TYPE	BLOWS		RECOVERY RQD	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	REMARKS	
				PER 6"							PID	MOISTURE
	[Brick pattern]	1	Core				Dark Gray	26.6-50.0: Onondaga Formation, Moorehouse Limestone member Very finely to coarsely crystalline, some to trace chert	Br to V. Br		Wet	
		2	Core	1.8	2	40%	to Light Gray			0.0		
40												
45		3	Core	5.3	10.5	0%				0.0		
50												
								End boring at 50' BGS				
55												
60												
65												
70												
75												

Comments: Boring advanced utilizing an ATV mounted CME 550 drill rig with 8 1/4 inch	PROJECT NO.	05-00036000.01
A, and 2" split spoon samplers. Bedrock portion cored with 2" NX barrel and	BORING NO.	GW-4A
amed to 6". No samples were submitted for analysis.		

URS Corporation										TEST BORING LOG			
PROJECT: Old Land Reclamation										BORING NO: GW-4B			
CLIENT: NYSDEC										SHEET: 1 of 1			
BORING CONTRACTOR: Buffalo Drilling Company										JOB NO.: 05-00036000.01			
GROUNDWATER:										GROUND ELEVATION:			
DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE		DATE STARTED: 01/10/02			
				DIA.		-				DATE FINISHED: 01/10/02			
				WT.		-				DRILLER: L. Schroeder			
				FALL		-				GEOLOGIST: J. Doerr			
* POCKET PENETROMETER READING										REVIEWED BY: D. Lenhardt			
DEPTH FEET	SAMPLE					DESCRIPTION					REMARKS		
	STRATA	NO.	TYPE	BLOWS PER 6"	RECOVERY RQD	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION		USCS	PID	MOISTURE	
5								Augered to 26.6' BGS, see log for GW-4A					
10													
15													
20													
25													
30								Boring ended at bedrock at 26.6' BGS					
35													
Comments: Boring advanced utilizing an ATV mounted CME 550 drill rig and 4 1/4 inch HSA. No samples collected. See log for GW-3A										PROJECT NO. 05-00036000.01			
										BORING NO. GW-4B			

**URS Corporation**

**TEST BORING LOG**

PROJECT: Old Land Reclamation

BORING NO: GW-5A

CLIENT: NYSDEC

SHEET: 1 of 2

BORING CONTRACTOR: Buffalo Drilling Company

JOB NO.: 05-00036000.01

GROUNDWATER:

BORING LOCATION:

DATE TIME LEVEL TYPE TYPE

DATE STARTED: 01/15/02

DIA.

2"

2"

DATE FINISHED: 01/21/02

WT.

140#

-

DRILLER: L. Schroeder

FALL

30"

5'

GEOLOGIST: J. Doerr

\* POCKET PENETROMETER READING

REVIEWED BY: D. Lenhardt

DEPTH FEET	SAMPLE					DESCRIPTION				REMARKS	
	STRATA	NO.	N NO.	BLOWS PER 6"	RECOVERY RQD	CAS. COLOR	SAMPLER HARDNESS	CORE MATERIAL DESCRIPTION	TUBE USCS	PID	MOISTURE
	[Cross-hatched pattern]	1	10	1 5 5 2	0%	Brown to Dark Brown to Black	Loose	No Recovery, cobble in shoe		0.0	Very Moist
		2	7	5 5 2 1	0%			2.0-24.0: FILL, Wood, some silt, clay, metal, ceramic, plastic, brick, paper and cardboard		0.0	
5		3	7	4 5 2 1	5%					0.0	
		4	13	1 3 10 10	10%		Medium Dense	6' to 8'; Metal cuttings, sheen.		0.0	
10		5	12	15 7 5 5	5%					0.0	Very Moist
		6	13	7 5 8 5	10%					0.0	to Wet
		7	12	8 6 6 3	0%					0.0	
15		8	7	5 4 3 1	5%		Loose			0.0	
		9	32	8 10 22 21	10%		Dense to Medium Dense			0.0	
20		10	27	17 22 5 5	0%					0.0	
22		11	18	12 10 8 9	0%					0.0	
23.1		12	8 27 50/1	20%		Hard	22.0-23.1: Fine to coarse gravel, some sand Auger refusal at top of rock at 23.1	GW	0.0	Wet	
25					Dark Gray to Light Gray		23.1-50.0: Onondaga Formation, Moorehouse Limestone member Very finely to coarsely crystalline, some to trace chert				
30		1	Core	9.3 10	87%				0.0		
35											

Comments:

PROJECT NO. 05-00036000.01

BORING NO. GW-5A

URS Corporation										TEST BORING LOG		
PROJECT: Old Land Reclamation										BORING NO: GW-5A		
CLIENT: NYSDEC										SHEET: 2 of 2		
										JOB NO.: 05-00036000.01		
DEPTH FEET	SAMPLE						DESCRIPTION				REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"		RECOVERY RQD	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	PID	MOISTURE
40	[Brick pattern]	2	Core	4.8	10	26%	Dark Gray to Light Gray	Hard	23.1-50.0: Onondaga Formation, Moorehouse Limestone member Very finely to coarsely crystalline, some to trace chert	V. Br to Br	0.0	Wet
45		3	Core	4.7	5	90%	↓	↓	↓	BI	0.0	↓
50	↓									↓	↓	↓
									End boring at 50' BGS			
55												
60												
65												
70												
75												
Comments: Boring advanced utilizing an ATV mounted CME 550 drill rig with 8 1/4 inch HSA, and 2" split spoon samplers. Bedrock portion cored with 2" NX barrel and reamed to 6". Samples collected from 6' to 8', 18-20, and 22-23' by NYSDEC.										PROJECT NO. 05-00036000.01		
										BORING NO. GW-5A		



**URS Corporation**

**TEST BORING LOG**

<b>PROJECT:</b> Old Land Reclamation				<b>BORING NO.:</b> GW-5B						
<b>CLIENT:</b> NYSDEC				<b>SHEET:</b> 1 of 1						
<b>BORING CONTRACTOR:</b> Buffalo Drilling Company				<b>JOB NO.:</b> 05-00036000.01						
<b>GROUNDWATER:</b>				<b>BORING LOCATION:</b>						
				<b>GROUND ELEVATION:</b>						
<b>DATE</b>	<b>TIME</b>	<b>LEVEL</b>	<b>TYPE</b>	<b>TYPE</b>	<b>CAS.</b>	<b>SAMPLER</b>	<b>CORE</b>	<b>TUBE</b>	<b>DATE STARTED:</b>	01/17/02
				DIA.		-			<b>DATE FINISHED:</b>	01/17/02
				WT.		-			<b>DRILLER:</b>	L. Schroeder
				FALL		-			<b>GEOLOGIST:</b>	J. Doerr
								<b>* POCKET PENETROMETER READING</b>	<b>REVIEWED BY:</b>	D. Lenhardt

DEPTH FEET	SAMPLE						DESCRIPTION				REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"	RECOVERY RQD	COLOR	CONSISTENCY HARDNESS	MATERIAL		USCS	PID	MOISTURE
								DESCRIPTION				
5								Augered to 22.0' BGS, see log for GW-5A				
10												
15												
20												
25								Boring ended at bedrock at 33' BGS				
30												
35												

<b>Comments:</b> Boring advanced utilizing an ATV mounted CME 550 drill rig and 4 1/4 inch				<b>PROJECT NO.</b> 05-00036000.01	
A. No samples collected. See log for GW-3A				<b>BORING NO.</b> GW-5B	

URS Corporation										TEST BORING LOG			
PROJECT: Old Land Reclamation										BORING NO: GW-8A			
CLIENT: NYSDEC										SHEET: 1 of 2			
BORING CONTRACTOR: Buffalo Drilling Company										JOB NO.: 05-00036000.01			
GROUNDWATER:										BORING LOCATION:			
CAS. SAMPLER CORE TUBE										GROUND ELEVATION:			
DATE	TIME	LEVEL	TYPE	TYPE		Split spoon	NX			DATE STARTED: 01/16/02			
				DIA.		2"	2"			DATE FINISHED: 01/24/02			
				WT.		140#	-			DRILLER: L. Schroeder			
				FALL		30"	5'			GEOLOGIST: J. Doerr			
* POCKET PENETROMETER READING										REVIEWED BY: D. Lenhardt			
DEPTH FEET	SAMPLE					DESCRIPTION					REMARKS		
	STRATA	NO.	N NO.	BLOWS PER 6"	RECOVERY RQD	COLOR	HARDNESS	MATERIAL DESCRIPTION	USCS	PID	MOISTURE		
	SSSSSS	1	4	1 2	50%	Black	Soft	0.0-0.3: Silty loam, some clay	CL	0.0	Very Moist		
	SSSSSS			2 3		Brown		0.3-3.0: SILT, some clay, trace fine sand					
3	SSSSSS	2	14	7 8	60%					0.0			
4.2				6 4			M. Dense	3.0-4.2: Fine to medium SAND, some silt	SW		Wet		
5		3	10	1 5	60%		Stiff	4.2-6.0: Silty CLAY, trace fine sand	CL	0.0	Dry		
				5 6									
		4	13	2 6	70%	Gray		6.0-15.0: CLAY, some silt, trace fine sand		0.0			
				7 8									
		5	11	2 3	80%					0.0			
10				8 8									
		6	10	2 3	60%					0.0			
				7 7									
		7	14	4 6	70%					0.0			
				8 6									
15		8	3	1 1	100%		Soft to Very Soft	15.0-32.7: CLAY, trace silt		0.0	Moist		
				2 3		Red-Gray							
		9	2	1 1	100%					0.0	Very Moist		
				1 2									
20		10	<1	WoR 1	100%	Gray				0.0			
				WoH 2									
		11	<1	WoR 1	100%	Gray to Red-Gray				0.0			
				WoH 1									
		12	2	1 2	100%	Red-Gray				0.0	Wet		
				1 2									
25		13	4	1 1	100%	Red-Gray				0.0			
				3 3									
		14	0		75%			Rods slipped		0.0			
		15	5	1 2	90%					0.0			
30				3 4									
		16	6	1 2	90%					0.0			
				4 4									
32.7		17	24	1 11	90%					0.0			
				23 11									
35		18	14	3 7	90%		Dense to Medium Dense	32.7-36.3: Fine to medium SAND, some coarse sand and silt, trace fine angular gravel.	SW	0.0			
				7 6						0.0			
Comments: Reamed from 36.3' to 39' with 7 7/8 inch bit.										PROJECT NO. 05-00036000.01			
										BORING NO. GW-8A			

URS Corporation

TEST BORING LOG

PROJECT:	Old Land Reclamation	BORING NO.:	GW-8A
CLIENT:	NYSDEC	SHEET:	2 of 2
		JOB NO.:	05-00036000.01

DEPTH FEET	SAMPLE					DESCRIPTION			REMARKS						
	STRATA	NO.	TYPE	BLOWS PER 6"	RECOVERY RQD	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	PID	MOISTURE				
	[Brick pattern]	1	Core	10.2	11	68%	Dark Gray to Light Gray	Hard	Auger refusal at top of rock at 36.3	Br to Bl		Wet			
40												36.3-50.0: Onondaga Formation, Moorehouse Limestone member Very finely to coarsely crystalline, some to trace chert	Bl		
45															0.0
50								Ream to 5 7/8" 50' to 60'							
55										0.0					
60								End boring at 60' BGS							
65															
70															
75															

Comments: Boring advanced utilizing an ATV mounted CME 550 drill rig with 8 1/4 inch SA, and 2" split spoon samplers. Bedrock portion cored with 2" NX barrel and cased to 6". No samples were submitted for analysis.

PROJECT NO.	05-00036000.01
BORING NO.	GW-8A

URS Corporation										TEST BORING LOG				
PROJECT: Old Land Reclamation										BORING NO: GW-9A				
CLIENT: NYSDEC										SHEET: 1 of 2				
BORING CONTRACTOR: Buffalo Drilling Company										JOB NO.: 05-00036000.01				
GROUNDWATER:										BORING LOCATION:				
CAS. SAMPLER CORE TUBE										GROUND ELEVATION:				
DATE	TIME	LEVEL	TYPE	TYPE		Split spoon	NX			DATE STARTED: 01/24/01				
				DIA.		2"	2"			DATE FINISHED: 01/28/01				
				WT.		140#	-			DRILLER: J. Gardner				
				FALL		30"	5'			GEOLOGIST: J. Doerr				
* POCKET PENETROMETER READING										REVIEWED BY: D. Lenhardt				
DEPTH FEET	SAMPLE						DESCRIPTION						REMARKS	
	STRATA	NO.	N NO.	BLOWS PER 6"	RECOVERY RQD	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	PID	MOISTURE			
2	XXXXXX	1	8	2 4 4 4	60%	Dark Brown	Stiff	0.0-2.0: FILL: Topsoil, silty loam		0.0		Moist		
	XXXXXX	2	12	3 5 7 9	90%	Yellow Brown	Very Stiff	2.0-6.3: Silty CLAY		0.0		↓		
5	XXXXXX	3	29	7 14 15 15	90%					0.0				
6.3	SSSSSS	4	15	6 8 7 6	60%	Gray	Stiff	6.3-7.2: SILT		0.0		↓		
7.2	XXXXXX	5	3	1 2 2 4	100%	Gray, with some Red-Brown banding	Soft	7.2-23.5: Clay, some silt, grading into plastic clay		0.0				Very Moist
10	XXXXXX	6	2	1 1 1 1	100%		↓			0.0		↓		
	XXXXXX	7	2	1 1 1 2	100%			Very Soft			0.0			
15	XXXXXX	8	1	1/12 1/12	100%		↓			0.0		↓		
	XXXXXX	9	1	WoR WoR 1 1	100%			Soft			0.0			
20	XXXXXX	10	3	WoR 1 2 2	100%		↓			0.0		↓		
	XXXXXX	11	3	1 1 2 3	90%			Hard			0.0			
23.5	XXXXXX	12	3	1 1 2 2	100%		↓			0.0		↓		
25	XXXXXX	13	>50	21 50/3	40%	Gray		Hard	23.5-29.5: CLAY with fine to coarse SAND and fine to coarse angular GRAVEL	SW/ GW	0.0			
	XXXXXX	14	>50	49 50/3	40%		↓			0.0		↓		
29.5	XXXXXX	15	>50	42 50/4	30%			Hard	Auger refusal at on top of rock at 29.5		0.0			
30	XXXXXX					Dark Gray to Light Gray	↓			0.0		↓		
	XXXXXX							Hard	29.5-45.0: Onondaga Formation, Moorehouse Limestone member Very finely to coarsely crystalline, some to trace chert	Very Br to Br	0.0			
35	XXXXXX	1	Core											

Comments: Hole reamed from 29.5 to 31.5' with 7 7/8 inch bit. Cored from 31.5' to 32.0' and bit broke. Reamed with 5 7/8 to 33.0 and coring resumed.

PROJECT NO. 05-00036000.01  
BORING NO. GW-9A

URS Corporation

TEST BORING LOG

PROJECT: Old Land Reclamation

BORING NO: GW-9A

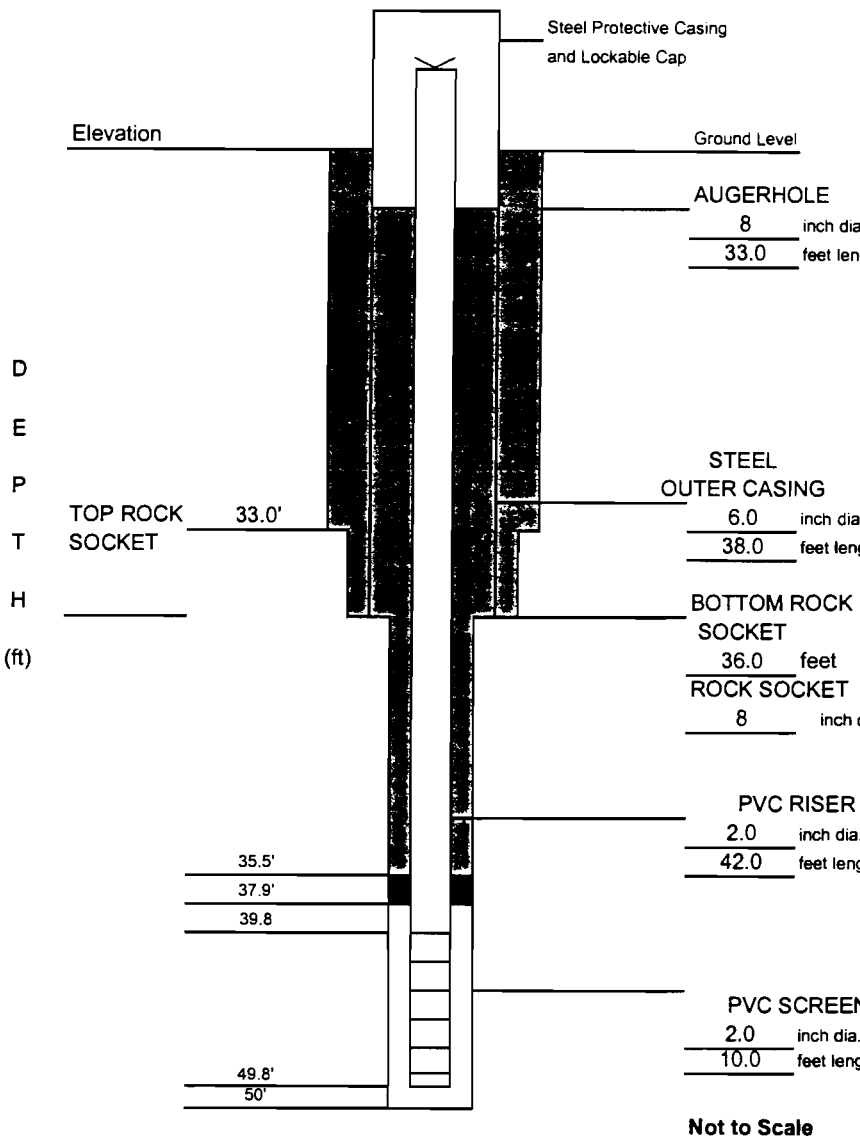
CLIENT: NYSDEC

SHEET: 2 of 2

JOB NO.: 05-00036000.01

DEPTH FEET	SAMPLE						DESCRIPTION					REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"	RECOVERY RQD	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	PID	MOISTURE		
40	[Brick Pattern]	1	Core	8.6	10	48%	Dark Gray to Light Gray	Hard ↓	29.5-45.0: Onondaga Formation, Moorehouse Limestone member Very finely to coarsely crystalline, some to trace chert	Br	0.0	Wet ↓	
45		2	Core	1.4	2	18%			Very Br	0.0			
50													
55													
60													
65													
70													
75													
Comments: Boring advanced utilizing an ATV mounted CME 550 drill rig with 8 1/4 inch A, and 2" split spoon samplers. Bedrock portion cored with 2" NX barrel and mmed to 6". Samples collected, by NYSDEC, 6' to 8' and 22' to 23.5'								PROJECT NO.	05-00036000.01				
								BORING NO.	GW-9A				

DRILLING SUMMARY	
Geologist: J. Doerr	
Drilling Company: Buffalo Drilling Company	
Driller: M. Gersten	
Rig Make/Model: CME 550	
Date: 01/07/02	
GEOLOGIC LOG	
Depth(ft.)	Description
0-26	FILL: Wood, some silt, clay, metal, plastic, and paper
26-29	Fine to coarse Sand and fine to coarse angular to subangular GRAVEL
29-32.0	Silty CLAY, some fine to coarse angular gravel
32.0-50	Onandaga Limestone



**WELL DESIGN**

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel Well: Steel Monitor: 2" Schedule 40 PVC	Type: 2" Schedule 40 PVC Slot Size: # 10; 0.010"	Type: #2 Sand Setting: 37.9'-50'
COMMENTS: Length of casing and monitor shows additional 2 feet for well stick up.	ROCK CORING Cored Interval: 36' - 50' Core Diameter: 2" Reamed Diameter: 6"	SEAL MATERIAL
		Type: Bentonite Setting: 35.5'-37.9'
		LEGEND
		Cement/Bentonite Grout
		Bentonite Seal
		Silica Sandpack

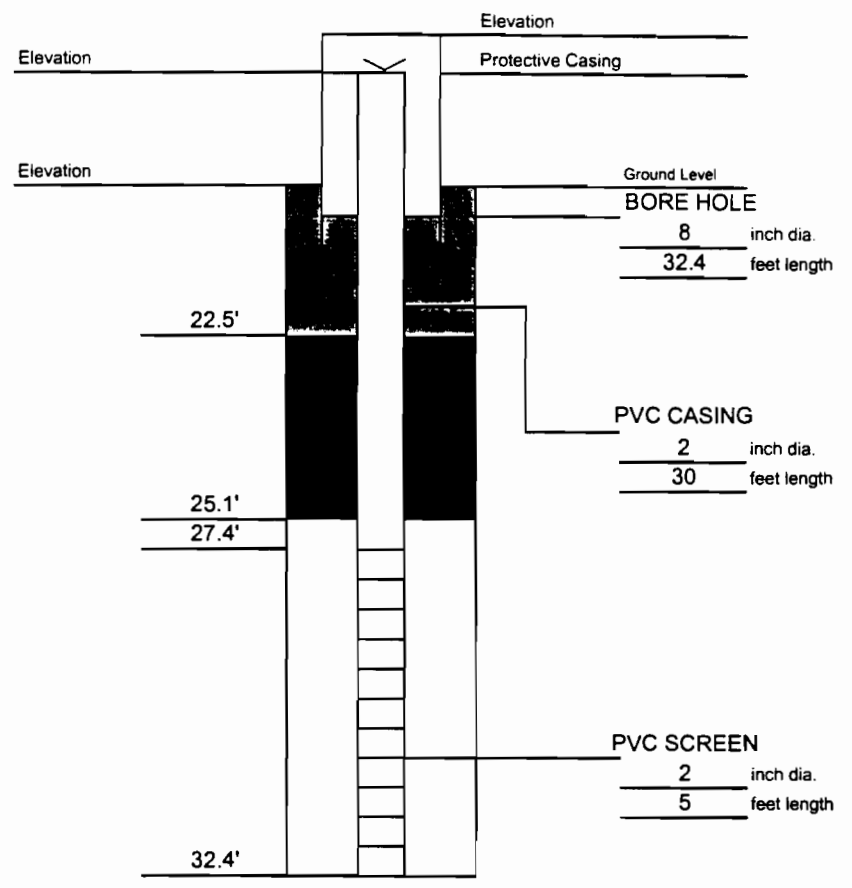
Client: NYSDEC	Location: Old Land Reclamation	Project No.: 05-00036000.01
<b>URS Corporation</b>	<b>OVERBURDEN MONITORING WELL CONSTRUCTION DETAILS</b>	Well Number: GW-3A

Not to Scale

<b>DRILLING SUMMARY</b>
Geologist: J. Doerr
Drilling Company: Buffalo Drilling Company
Driller: M. Gersten
Rig Make/Model: CME 550
Date: 12/21/01

<b>GEOLOGIC LOG</b>	
Depth(ft.)	Description
	See GW-3A

D  
E  
P  
T  
H



**WELL DESIGN**

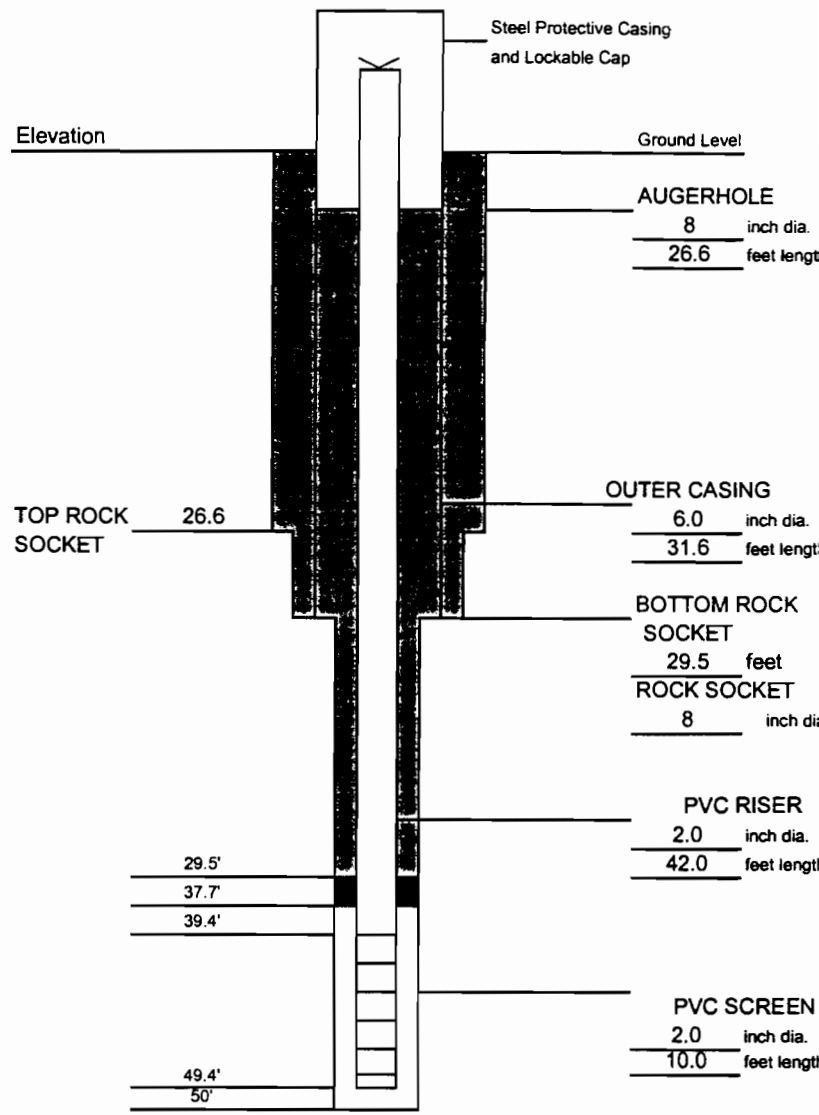
CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel Protective Casing	Type: 2" Schedule 40 PVC	Type: #2 sand Setting: 25.1'-32.4'
Monitor: 2" Schedule 40 PVC	Slot Size: # 10; 0.010"	<b>SEAL MATERIAL</b> Type: Bentonite Setting: 22.5'-25.1'
<b>COMMENTS:</b>	Rock Coring None  Cored Interval: NA  Core Diameter: NA  Reamed Diameter: NA	<b>LEGEND</b>  [Black Box] Cement/Bentonite Grout [Dark Grey Box] Bentonite Seal [White Box] Silica Sandpack
Client: NYSDEC	Location: Old Land Reclamation	Project No.: 05-00036000.01
URS Corporation	<b>MONITORING WELL CONSTRUCTION DETAILS</b>	Well Number: GW-3B

<b>DRILLING SUMMARY</b>	
Geologist:	J. Doerr
Drilling Company:	Buffalo Drilling Company
Driller:	L. Schroeder
Rig Make/Model:	CME 550
Date:	01/14 /02

<b>GEOLOGIC LOG</b>	
Depth(ft.)	Description
0-24	FILL: Wood, some silt, clay, metal, plastic, and paper
24-26.6	Fine to coarse Sand and fine to coarse angular GRAVEL
26.6-50.0	Onandaga Limestone

**WELL DESIGN**

D  
E  
P  
T  
H  
(ft)



Not to Scale

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel Well: Steel Monitor: 2" Schedule 40 PVC	Type: 2" Schedule 40 PVC  Slot Size: # 10; 0.010"	Type: #2 Sand Setting: 37.7'-50.0'  <b>SEAL MATERIAL</b> Type: Bentonite Setting: 29.5'-37.7'
<b>COMMENTS:</b> Length of casing and monitor shows additional 2 feet for well stick up.	<b>ROCK CORING</b> Cored Interval: 29.6' - 50' Core Diameter: 2" Reamed Diameter: 6"	<b>LEGEND</b> 

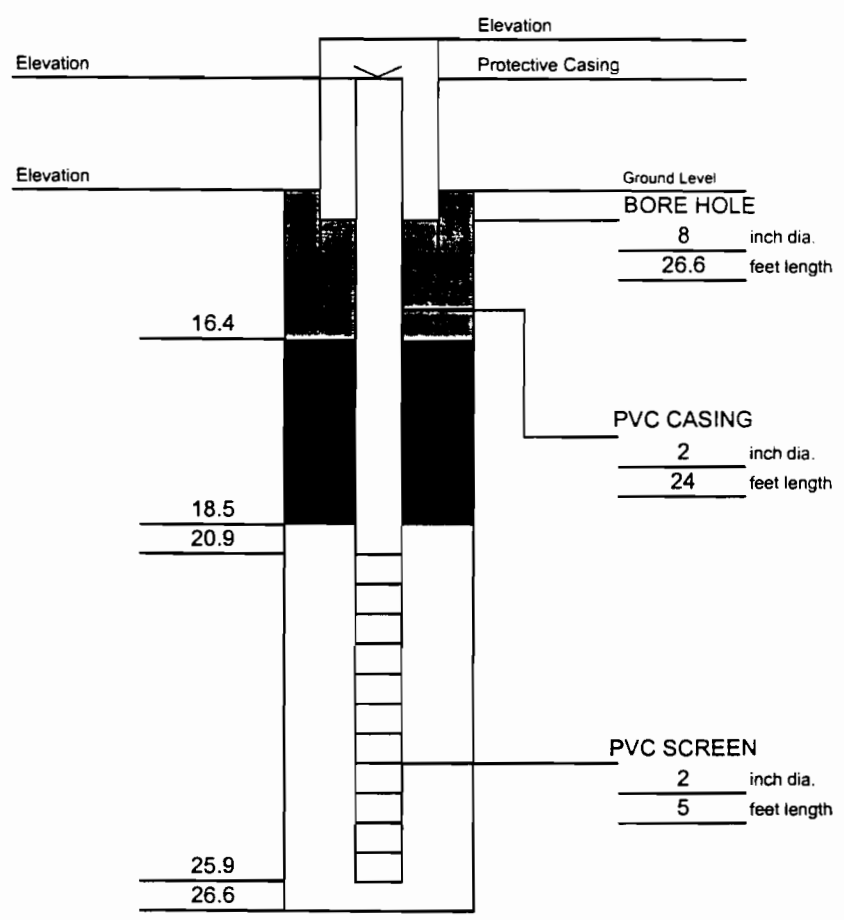
Client: NYSDEC	Location: Old Land Reclamation	Project No.: 05-00036000.01
URS Corporation	BEDROCK MONITORING WELL CONSTRUCTION DETAILS	Well Number: GW-4A



<b>DRILLING SUMMARY</b>	
Geologist:	J. Doerr
Drilling Company:	Buffalo Drilling Company
Driller:	L. Schroeder
Rig Make/Model:	CME 550
Date:	1/10/02

<b>GEOLOGIC LOG</b>	
Depth(ft.)	Description
	See GW-4A

DEPTH



**WELL DESIGN**

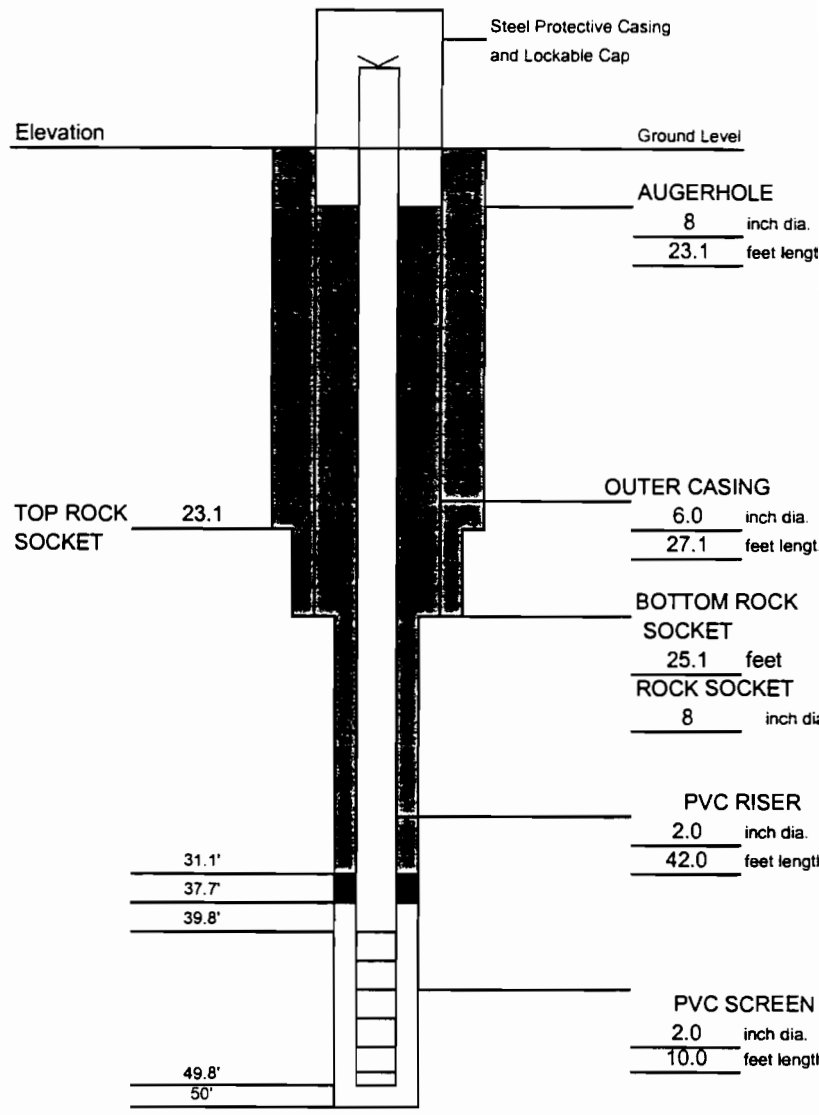
CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel Protective Casing	Type: 2" Schedule 40 PVC	Type: #2 sand Setting: 18.5'-26.6'
Monitor: 2" Schedule 40 PVC	Slot Size: # 10; 0.010"	<b>SEAL MATERIAL</b> Type: Bentonite Setting: 16.4'-18.5'
<b>COMMENTS:</b>	Rock Coring None  Cored Interval: NA  Core Diameter: NA  Reamed Diameter: NA	<b>LEGEND</b>  [Pattern] Cement/Bentonite Grout  [Pattern] Bentonite Seal  [Pattern] Silica Sandpack
Client: NYSDEC	Location: Old Land Reclamation	Project No.: 05-00036000.01
JRS Corporation	<b>MONITORING WELL CONSTRUCTION DETAILS</b>	Well Number: GW-4B

<b>DRILLING SUMMARY</b>
Geologist: J. Doerr
Drilling Company: Buffalo Drilling Company
Driller: L. Schroeder
Rig Make/Model: CME 550
Date: 01/21/02

<b>GEOLOGIC LOG</b>	
Depth(ft.)	Description
0-22	FILL: Wood, some silt, clay, metal, plastic, and paper
22-23.1	Fine to coarse Sand and fine to coarse angular to subangular GRAVEL
23.1-50	Onandaga Limestone

**WELL DESIGN**

DEPTH (ft)



Not to Scale

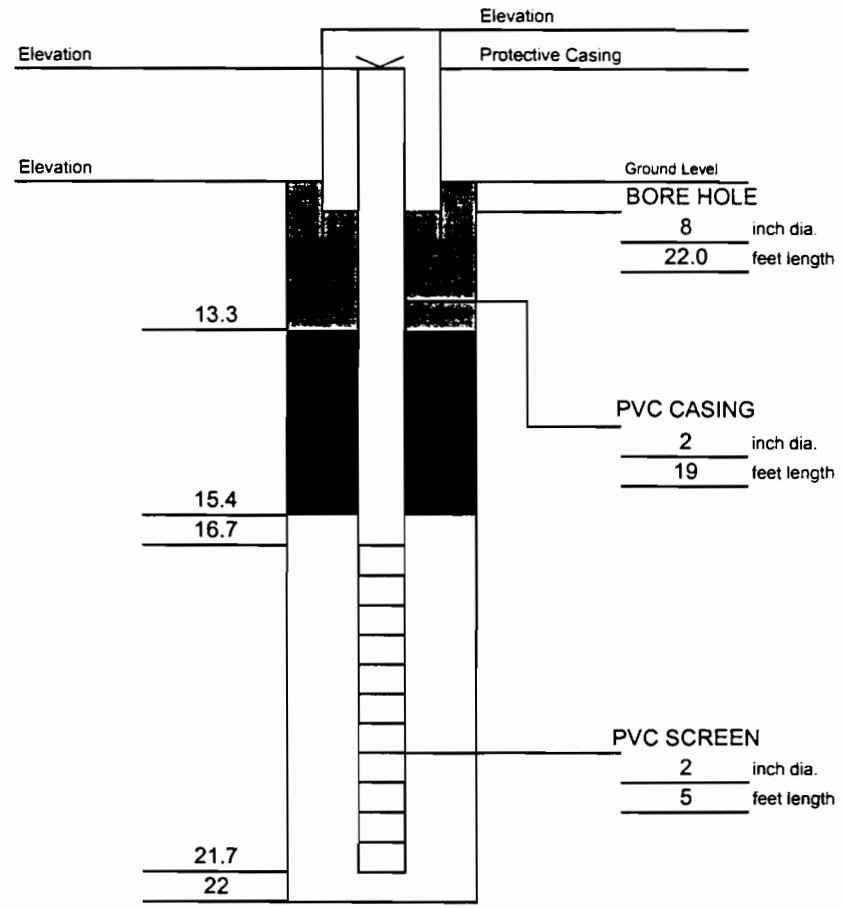
CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel Well: Steel Monitor: 2" Schedule 40 PVC	Type: 2" Schedule 40 PVC Slot Size: # 10; 0.010"	Type: #2 Sand Setting: 37.7'-50.0'
COMMENTS: Length of casing and monitor shows additional 2 feet for well stick up.	ROCK CORING Cored Interval: 25.1' - 50' Core Diameter: 2" Reamed Diameter: 6"	SEAL MATERIAL
		Type: Bentonite Setting: 31.1'-37.7'
		LEGEND
		Cement/Bentonite Grout
		Bentonite Seal
		Silica Sandpack

Client: NYSDEC	Location: Old Land Reclamation	Project No.: 05-00036000.01
<b>URS Corporation</b>	<b>BEDROCK MONITORING WELL CONSTRUCTION DETAILS</b>	Well Number: GW-5A

<b>DRILLING SUMMARY</b>	
Geologist:	J. Doerr
Drilling Company:	Buffalo Drilling Company
Driller:	L. Schroeder
Rig Make/Model:	CME 550
Date:	1/17/02

<b>GEOLOGIC LOG</b>	
Depth(ft.)	Description
	See GW-5A

DEPTH



**WELL DESIGN**

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel Protective Casing	Type: 2" Schedule 40 PVC	Type: #2 sand Setting: 22'-15.4'
Monitor: 2" Schedule 40 PVC	Slot Size: # 10; 0.010"	<b>SEAL MATERIAL</b> Type: Bentonite Setting: 13.3'-15.4'
<b>COMMENTS:</b>	Rock Coring None Cored Interval: NA Core Diameter: NA Reamed Diameter: NA	<b>LEGEND</b> 

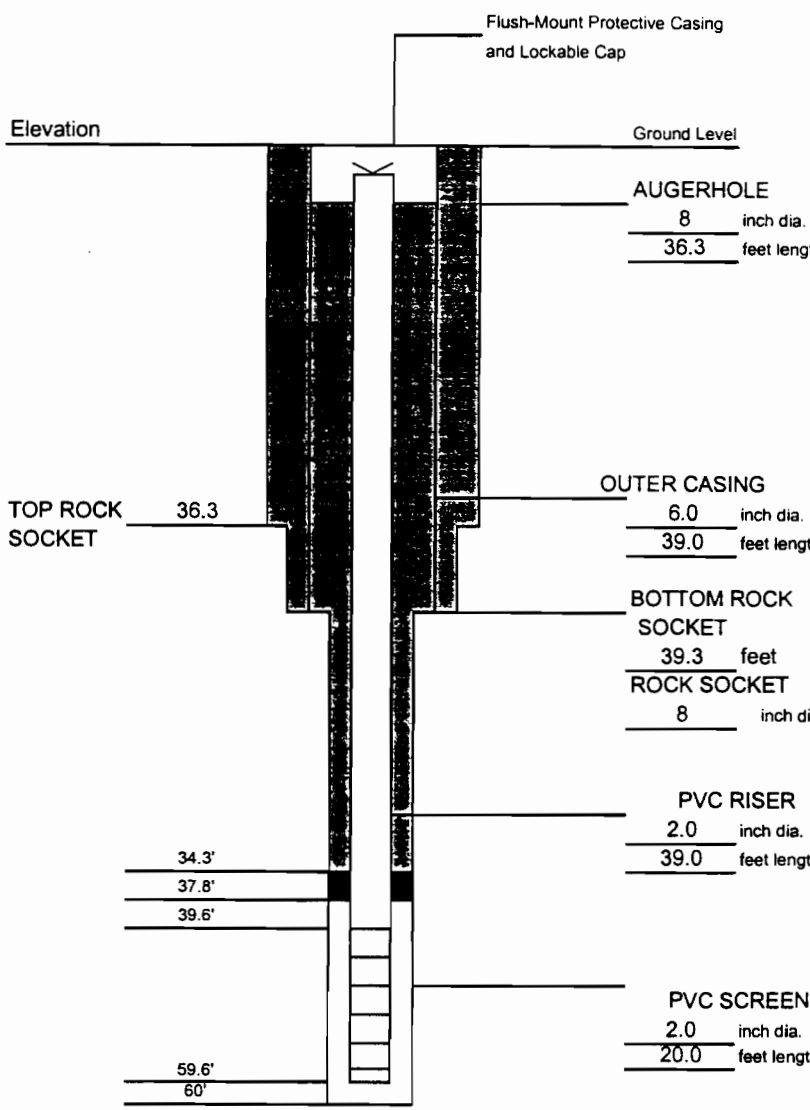
Client: NYSDEC	Location: Old Land Reclamation	Project No.: 05-00036000.01
URS Corporation	<b>MONITORING WELL CONSTRUCTION DETAILS</b>	Well Number: GW-5B

<b>DRILLING SUMMARY</b>
Geologist: J. Doerr
Drilling Company: Buffalo Drilling Co.
Driller: J. Gardner
Rig Make/Model: Mobil B-61
Date: 1/24/02



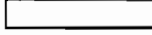
<b>GEOLOGIC LOG</b>	
Depth(ft.)	Description
0.0-32.7	Silt, silty clay and clay
32.7-36.3	Sand and gravel
36.3-60.0	Onodaga Limestone

**WELL DESIGN**

D  
E  
P  
T  
H  
(ft)



Not to Scale

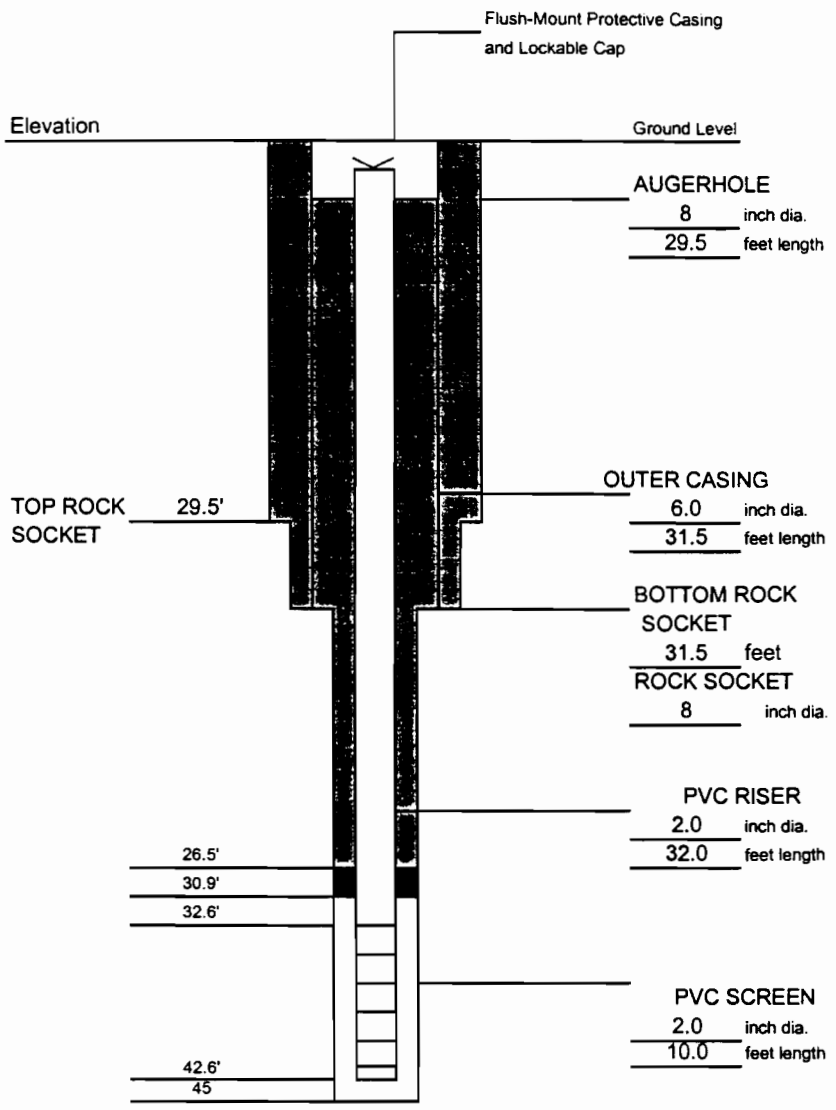
CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel Well: Steel Monitor: 2" Schedule 40 PVC	Type: Schedule 40 PVC Slot Size: # 10; 0.010"	Type: #2 Sand Setting: 37.8'-60.0'
<b>COMMENTS:</b> Note: In order to maximize the poor recharge 20' of screen installed.	<b>ROCK CORING</b> Cored Interval: 39.3' - 50' Core Diameter: 2" Reamed Diameter: 6"	<b>SEAL MATERIAL</b> Type: Bentonite Setting: 34.3'-37.8'
		<b>LEGEND</b>  Cement/Bentonite Grout  Bentonite Seal  Silica Sandpack

<b>Client:</b> NYSDEC	<b>Location:</b> Old Land Reclamation	<b>Project No.:</b> 05-00036000.01
<b>URS Corporation</b>	<b>BEDROCK MONITORING WELL CONSTRUCTION DETAILS</b>	<b>Well Number:</b> GW-8A




<b>DRILLING SUMMARY</b>
Geologist: J. Doerr
Drilling Company: Buffalo Drilling Company
Driller: J. Gardner
Rig Make/Model: Mobil B-61
Date: 1/28/02

<b>GEOLOGIC LOG</b>	
Depth(ft.)	Description
0.0-23.5	Clay
23.5-29.5	Till
29.5-45.0	Onondaga Limestone

D  
E  
P  
T  
H  
(ft)



**WELL DESIGN**

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel	Type: 2" Schedule 40 PVC	Type: #2 Sand Setting: 30.9'-45.0'
Well: Steel	Slot Size: # 10; 0.010"	<b>SEAL MATERIAL</b> Type: Bentonite Setting: 26.5'-30.9'
Monitor: 2" Schedule 40 PVC		
<b>COMMENTS:</b>	<b>ROCK CORING</b> Cored Interval: 31.5 - 45' Core Diameter: 2" Reamed Diameter: 6"	<b>LEGEND</b>  Cement/Bentonite Grout  Bentonite Seal  Silica Sandpack

Client: NYSDEC	Location: Old Land Reclamation	Project No.: 05-00036000.01
<b>URS Corporation</b>	<b>BEDROCK MONITORING WELL CONSTRUCTION DETAILS</b>	Well Number: GW-9A

APPENDIX D

$$\begin{array}{r}
 32.97 \\
 - 19.86 \\
 \hline
 13.11 \\
 \times 1.49 \\
 \hline
 6.55 \text{ gal/s}
 \end{array}$$

Site ID: 915129 - OLD LAND RECLAMATION  
 Weather Conditions \_\_\_\_\_ Date: 3/15/2002  
 Temp. (°F): N 45° F Sampler(s): 2, Szymanski / U. Oksa  
 Wind: SW 15-20 mph Laboratory: STC  
 Precip.: Ø Analyses: Full TCL / GAL

---

Well ID: GW-2B Volume per Purge: N 2.2 gals  
 Depth to Bottom: 32.97 3 Volumes =: N 6.55 gals  
 Depth to Water: 19.86 Purge Start: 1717 hrs Finish: \_\_\_\_\_  
 Well Diameter: \_\_\_\_\_ Sample Time: 1415 3/15/02

Parameters:	Volume Purged (in Gallons)							
	Static	2.5	DRY					
pH	6.88	6.58						
Conductivity	171.4	186.2						
Turbidity	<150	<100						
Temperature (°F)	11.7°C	9.9						
DO								

Comments: \* Turbidity out: Clarity determined by visual judgement  
 down N a lot of suspended solids to start  
 Cleared up after N 1.0 gal. — Dry out N 2.6 gallons.

711 34  
 52.44  
 - 29.95  
 -----  
 22.49  
 x 3.49  
 -----  
 78.48

Site ID: 915129 - OLD LAND RECLAMATION  
 Weather Conditions \_\_\_\_\_ Date: 31 10/2002  
 Temp. (°F): 55 Sampler(s): D. Synnisk / K. G. Ben  
 Wind: S 10-15 Laboratory: STL  
 Precip.: 0 Analyses: Full TCL/TAL

Well ID: GW-3A Volume per Purge: 3.75 gals  
 Depth to Bottom: 52.44 3 Volumes =: 11.25 gals  
 Depth to Water: 29.95' Purge Start: 11:53 Hours Finish: 12:02  
 Well Diameter: 2" PVC Sample Time: 1220 Hours 3/25/02

Parameters:	Volume Purged (in Gallons)							
	Static	3.75	8.0	13.0				
pH	7.07	6.82	6.59	6.13				
Conductivity	135	182.5	186.3	186.5				
Turbidity	NISD	N100	N3	<50				
Temperature (°F)	12.1	12.5	12.5	11.9				
DO								

Comments:  
 \* Turbidity not judged by visual clarity  
 water is black in color to start. 1st volume clear but blackish.  
 no H2S initial < 0.005 ppm on Terene. 2nd volume clearer yet.



$$\begin{array}{r} 35.83 \\ - 29.08 \\ \hline 6.75 \\ \times 0.16799128 \\ \hline 1.13 \\ \times 0.49 \\ \hline 0.5535 \end{array}$$

Site ID: 915129 - OLD LAND RECLAMATION  
 Weather Conditions Date: 3/19/2002  
 Temp. (°F): 50°F Sampler(s): D. Symanski / R. Glaser  
 Wind: S 10-15 mph Laboratory: STL  
 Precip.: 0 Analyses: Full TCL/TAH

---

Well ID: GW-3B Volume per Purge: 1 gal  
 Depth to Bottom: 35.13 3 Volumes =: 3 gal  
 Depth to Water: 29.08' Purge Start: 11:15 Finish: 11:35  
 Well Diameter: 2" PVC Sample Time: 1210 hrs 3/15/02

Parameters:	Volume Purged (in Gallons)								
	Static	1.0	2.0	5.0	7.0	10.0	12.0	15.0	17.0
pH	/	6.12	6.53	6.57	6.55	6.60	6.60	6.64	6.65
Conductivity	/	105.5	113.8	144.3	168	177	183	172	172
Turbidity *	/	200	200	2200	2150	2150	1100	175	150
Temperature (°F)	/	18.5	16.3	14.4	13.4	12.9	13.0	12.5	12.9
DO	/	-	-	-	-	-	-	-	-

Comments:  
 - Water very turbid 0-15 → 10.0 clearing up and slightly  
11:25 ODR - Terumo H2S meter read 0.005 ppm at 15 gal bucket  
- Pumping water to start (first 7 gals.)  
 \* Turbidity over. Clarity judged by visual appearance

$$\begin{array}{r}
 52.21 \\
 - 23.55 \\
 \hline
 28.66 \\
 + 1.49 \\
 \hline
 30.15
 \end{array}$$
 14.30 gal spray

Site ID: 915129 - OLD LAND RECLAMATION  
 Weather Conditions \_\_\_\_\_ Date: 3/15/2002  
 Temp. (°F): N 50°F Sampler(s): J. Seymour / K. Glase  
 Wind: SW 10-15 mph Laboratory: STC  
 Precip.: 0 Analyses: Full TCL/TA

Well ID: G-W-4A Volume per Purge: 4.77 gals  
 Depth to Bottom: 52.21 3 Volumes =: ~14.30 gals  
 Depth to Water: 23.55 Purge Start: 1220 Finish: 1235  
 Well Diameter: 2" PVC Sample Time: 1255 3/15/02

Parameters:	Volume Purged (in Gallons)							
	Static	5.0	10.0	15.0				
pH	7.09	7.14	7.12	7.14				
Conductivity	191.3	145	214	203				
Turbidity	<50	<50	<50	<50				
Temperature (°F)	10.9°C	11.2°C	11.5°C	11.8°C				
DO								

Comments:  
 \* turbidimeter cal: clarity judged visually.  
 water clear w/ slight H2S smell initially.

7.54  
x.49  

---

3.77 3.00

Site ID: 915129 - OLD LAND RECLAMATION  
 Weather Conditions \_\_\_\_\_ Date: 3/14/02  
 Temp. (°F): 50°F Sampler(s): D. Szymanski / K. Glasser  
 Wind: SW 10-15 mph Laboratory: STC  
 Precip.: ☉ Analyses: Full / TCL / TC

Well ID: GW-4B Volume per Purge: 1.26 gals  
 Depth to Bottom: 28.92 3 Volumes =: 3.77 gals  
 Depth to Water: 31.44 Purge Start: 1240 Finish: 1250  
 Well Diameter: 2" PVC Sample Time: 1245 3/15/02

Parameters:	Volume Purged (in Gallons)						
	Static	4.0	6.0	8.0	10.0	14.0	
pH	6.67	6.68	6.69	6.68	6.68	6.72	
Conductivity	357	375	344	338	483	307	
Turbidity	>200	7150	7100	7100	<75	<50	
Temperature (°F)	12.0°	10.0	11.5	11.8	12.4	12.1	
DO							

Comments:  
 \* Turbidity not: clarity judged visually  
 water turbid to start clearing every 2 volumes or so  
 water appears consistent visually, pH, temp and in clarity to  
 last 6 gallons conductivity is changeable;

52.82'  
 -20.70  
 -----  
 32.12

x 0.49  
 -----  
 ~ 16,000 gals 3 purges

Site ID: 915129 - OLD LAND RECLAMATION  
 Weather Conditions \_\_\_\_\_ Date: 3<sup>1st</sup> 2002  
 Temp. (°F): ~ 55° Sampler(s): D. Payne - sk/w. Close  
 Wind: SSW 10-15 mph Laboratory: SCL  
 Precip.: ☐ Analyses: Full TCL

Well ID: GW-5A Volume per Purge: ~ 5.35 gals  
 Depth to Bottom: 52.82 3 Volumes =: ~ 16,000 gals  
 Depth to Water: 20.70' Purge Start: 1305 Finish: 1324  
 Well Diameter: 2" PVC Sample Time: 1325 hours 3/15/02

Parameters:	Volume Purged (in Gallons)							
	Static	5.5	10.5	16.5				
pH	6.88	6.89	6.85	6.86				
Conductivity	720	400	402	480				
Turbidity NTU	<150	<100	<50	<50				
Temperature (°C)	13.3	11.6c	13.4c	12.8c				
DO	✓							

Comments:  
 \* Turbidimeter: One: Visual judgement of clarity  
 Water ~ Clear but Blackish in color. H2S odor after 1st volume  
 noted slight sheen at 5 gallons of water. No sheen observed thereafter  
 water appeared consistent (outside of fluctuating conductivity - chemistry.)

$$\begin{array}{r} 24.66 \\ - 16.13 \\ \hline 8.53 \\ \times 0.49 \\ \hline \approx 4.27 \text{ gals / trip} \end{array}$$

Site ID: 915129 - OLD LAND RECLAMATION  
 Weather Conditions \_\_\_\_\_ Date: 3/14/02  
 Temp. (°F): SSW 10-15 mph Sampler(s): P. S. Sanchez / K. Glaser  
 Wind: N 55 Laboratory: STC  
 Precip.: Ø Analyses: Full TCL + Total ppt. Hy. Carbon

Well ID: GW-5B Volume per Purge: 1.43 gals  
 Depth to Bottom: 24.66 3 Volumes =: 4.27  
 Depth to Water: 16.13 Purge Start: 1325 Finish: 1350  
 Well Diameter: 2" PVC Sample Time: 1325 3/15/02

Parameters:	Volume Purged (in Gallons)							
	1.0 Static	5.0	9.0	14.0	19.0			
pH	6.72	6.71	6.69	6.71	6.72			
Conductivity	448	446	396	426	385			
Turbidity NTU	7200	7200	7150	7100	<75			
Temperature (°C)	12.4c	13.0c	12.7c	13.0c	11.9c			
DO								

**Comments:**  
 \* Turbid. water out: Visual judgment of clarity  
 Water very turbid to start, N5 gallons water depressed in well  
 and/or of whole pump increasing; didn't run dry though. Water flowing  
 well from 9.0 gals. on. water got clearer but still appears to have  
 some silt problems. Clarity < 50 NTU may not be achievable with pump.  
 Note: slight sanding on water surface throughout purge

22.65

-1480  
7.85

+ 367  
~ 2.86 gal. purge

Site ID: 915129 - OLD LAND RECLAMATION  
 Weather Conditions \_\_\_\_\_ Date: 3/17/02  
 Temp. (°F): ~ 45° Sampler(s): D. Samuels / K. Glaser  
 Wind: SW 15-20 mph Laboratory: 57c  
 Precip.: None Analyses: Full TCL / Total Pet. HC

Well ID: GW-6A Volume per Purge: ~ 2.8 gal  
 Depth to Bottom: 22.66 3 Volumes =: ~ 8.4 gal  
 Depth to Water: 14.8 Purge Start: 1021 hr Finish: 1034  
 Well Diameter: 3" PVC to open rock Sample Time: 134.5 3/15/02

Parameters:	Volume Purged (in Gallons)							
	Static	2.0	5.0	7.5	10.0			
pH	6.51	7.12	7.30	7.31	7.33			
Conductivity	107.9	166.5	198.0	142.0	141.9			
Turbidity *	0	0	0	0	0			
Temperature (°F)	79.0	79.0	87.9	9.30	9.10			
DO								

Comments: \* Turbidimeter  
 and water went into  
 cell house - possible chemical  
 results. When appeared very clear upon pouring.

Site ID: 915129 - OLD LAND RECLAMATION  
 Weather Conditions: \_\_\_\_\_ Date: 3/15/2002  
 Temp. (°F): N55 Sampler(s): D. Szymanski / K. Case  
 Wind: Ø Laboratory: STC  
 Precip.: Ø Analyses: Fall TC

Well ID: GW-8A Volume per Purge: \_\_\_\_\_  
 Depth to Bottom: 59.57' 3 Volumes = : \_\_\_\_\_  
 Depth to Water: \_\_\_\_\_ Purge Start: \_\_\_\_\_ Finish: \_\_\_\_\_  
 Well Diameter: 2" PVC Sample Time: 1035 hours 3/15/02

Parameters:	Volume Purged (in Gallons)							
	Static							
pH	/							
Conductivity	/							
Turbidity	/							
Temperature (°F)	/							
DO	/							

Comments: Well was not purged today. Extremely slow recovery (~4' per week) would not provide enough quantity for full sample if purged today

H2S meter readings 3: (Seawave 631-X)  
 outside of casing w/ lid on = 0.004 ppm  
 inside of casing w/ plug sealed = 0.028 ppm  
 inside of casing w/ plug removed = 15 ppm  
 breathing zone ~ 6' away from open well = 0.12 ppm  
 inside of casing w/ plug removed + well vented for 10 minutes = 0.005 ppm

Although H2S present H2S best reading was brief and quickly dissipated.

$$\begin{array}{r}
 48.16 \\
 - 20.15 \\
 \hline
 21.99 \\
 \times 49 \\
 \hline
 \sim 11 \text{ Gal} / 3 \text{ vols}
 \end{array}$$

Site ID: 915129 - OLD LAND RECLAMATION  
 Weather Conditions \_\_\_\_\_ Date: 3/14/02  
 Temp. (°F): \_\_\_\_\_ Sampler(s): 2, Synchro / K.C. (K) ✓  
 Wind: \_\_\_\_\_ Laboratory: YTL  
 Precip.: \_\_\_\_\_ Analyses: Full TCL

Well ID: G-W-9A Volume per Purge: ~ 3.66 Gal/Purge  
 Depth to Bottom: 42.77 3 Volumes =: ~ 11 Gal  
 Depth to Water: 20.78' Purge Start: 0939 Finish: 1002  
 Well Diameter: 2" PVC Sample Time: 110 hours 3/15/02

Parameters:	Volume Purged (in Gallons)						
	Static	4.0	8.0	12.0	16.0	20.0	
pH	6.41	6.84	6.97	7.02	7.04	7.05	
Conductivity	145.7	139.1	169.8	159.5	155.5	160.1	
Turbidity	7200	7200	7200	7200	7200	7200	
Temperature °C	8.6°C	10.5°C	10.2°C	10.7°C	11.0	11.1	
DO	—						

Comments: Turbidity meter is functional & calibrated  
 - Water milky in appearance, slight H<sub>2</sub>S odor - Terone 631-X H<sub>2</sub>S meter reads 0.022 ppm for H<sub>2</sub>S over open bucket w/ 8-12 gallon purge. Water clearing up 12-16 gallon purge but still 7200 cty  
 - Sample included (MS/MSD)



3.07  
 - 7.70  
 -----  
 15.37'  
 x .367  
 -----  
 100 GALS program  
 N 18 gals total

Site ID: 915129 - OLD LAND RECLAMATION  
 Weather Conditions \_\_\_\_\_ Date: 3/14/02  
 Temp. (°F): ~40°F Sampler(s): 2x 1/2" / 1/4" / 1/8"  
 Wind: None < 5 mph. Laboratory: DTL  
 Precip.: None Analyses: Full TCL/TAL

Well ID: GW-7A Volume per Purge: N/A  
 Depth to Bottom: 23.07 3 Volumes =: N/A  
 Depth to Water: 7.70 Purge Start: 07:35 Finish: 09:52  
 Well Diameter: 3" PVC to Open Rock Sample Time: 12.00 hours 3/15/02

Parameters:	Volume Purged (in Gallons)							
	Static	6.0	12.0	18.0				
pH	6.23	6.61	6.70	6.75				
Conductivity	107.6	119.9	115.8	110.5				
Turbidity	35	2.2	0.23	0.44				
Temperature (°F)	8.2	8.8	9.5	9.5				
DO								

Comments:

Site ID: 915129 - OLD LAND RECLAMATION  
 Weather Conditions \_\_\_\_\_ Date: 1 / 12 2002  
 Temp. (°F): \_\_\_\_\_ Sampler(s): \_\_\_\_\_  
 Wind: \_\_\_\_\_ Laboratory: \_\_\_\_\_  
 Precip.: \_\_\_\_\_ Analyses: \_\_\_\_\_

Well ID: GW-2A Volume per Purge: \_\_\_\_\_  
 Depth to Bottom: \_\_\_\_\_ 3 Volumes = : \_\_\_\_\_  
 Depth to Water: \_\_\_\_\_ Purge Start: \_\_\_\_\_ Finish: \_\_\_\_\_  
 Well Diameter: 3" PVC to open hole Sample Time: \_\_\_\_\_

Parameters:	Volume Purged (in Gallons)						
	Static						
pH							
Conductivity							
Turbidity							
Temperature (°F)							
DO							

NOT SAMPLED  
 DUE TO WELL  
 COLLAPSE

Comments:

---

APPENDIX E

**SEVERN  
TRENT  
SERVICES**

January 4, 2002

Mr. John Ryan  
NYSDEC  
625 Broadway  
Albany, NY 12233-3502

**STL Buffalo**  
10 Hazelwood Drive  
Suite 106  
Amherst, NY 14228

Tel: 716 691 2600  
Fax: 716 691 7991  
www.stl-inc.com

RE: Analytical Results A01-B360

Dear Mr. Ryan:

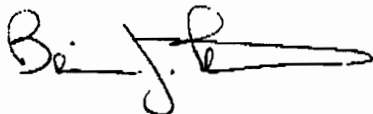
Please find enclosed analytical results concerning the sample recently submitted by your agency. The pertinent information regarding these analyses is listed below:

Case #: SH901  
SDG#: 1113  
Matrix: Soil  
Sample Received: 11/14/01  
Sample Date: 11/13/01

If you have any questions concerning these data, please contact the Program Manager, at (716) 691-2600 and refer to the I.D. number listed below. It has been our pleasure to provide the New York State Department of Environmental Conservation with environmental testing services. We look forward to serving you in the future.

Sincerely,

STL Buffalo



Brian J. Fischer  
Program Manager



Susan L. Mazur  
Laboratory Director

BJF/SLM/jdk  
Enclosure  
cc: David Szymanski

I.D. #A01-B360  
#NY1A8770.9

This report contains 1437 pages which are individually numbered.

000001

SAMPLE DATA SUMMARY PACKAGE

SDG NARRATIVE

Laboratory Name: STL Buffalo

Laboratory Code: STL Buffalo

SDG Number: 1113

Sample Identifications: A462S1

METHODOLOGY

The specific methodology employed in obtaining the enclosed analytical results is enclosed on the specific data tables. The method number presented refers to the following U.S. Environmental Protection Agency reference:

- Analyses performed in accordance to the 2000 New York State Department of Environmental Conservation analytical Services Protocol.

COMMENTS

The enclosed data has been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

The cooler was received at a temperature of 3°C.

Deviations from protocol were encountered for the following:

VOLATILE DATA

The Method Blanks, VBLK02 and VBLK03, exhibited results below the reporting limit for Methylene chloride. All affected samples will be indicated with a "B" qualifier.

The Method Blank, VBLK60, exhibited results below the reporting limit for 2-Butanone. All affected samples will be indicated with a "B" qualifier.

Sample A462S1 was reanalyzed one day outside of the 10 day holding time due to the continuing calibration verification (CCV) indicating above normal recovery results for cis-1,3-Dichloropropene. Sample A462S1 RE had a significantly different matrix than sample A462S1 and contained one or more target compounds in amounts exceeding the instrument calibration range ("E" qualifiers). Sample A462S1 RE also exhibited surrogate recovery results above quality control limits for p-Bromofluorobenzene. As a result, the sample required further reanalysis four days outside of analytical holding time at a dilution factor of 4 and exhibited compliant surrogate recoveries. All sets of data are reported.



000003

VOLATILE DATA CONT.

The initial calibration standard curve A110001074-1 exhibited the response factor of Trichloroethene as below the minimum quality control limit in standard VSTD010. Also, the %RSD for two compounds is above quality control limits, however, as per protocol, two non-compliant points are allowed. The associated continuing calibration standard was compliant and these two compounds were not detected in the associated samples, therefore, no corrective action was required.

SEMIVOLATILE DATA

Sample A462S1 was analyzed at a dilution factor of 5 due to high levels of target compounds. As a result of the severe matrix of this sample, the sample exhibited poor recoveries for all surrogates. However, the Method Blank (SBLK) and Matrix Spike Blank (MSB) exhibited compliant surrogate recoveries. The severe matrix of this sample also caused extraction and gel permeation cleanup (GPC) problems. Due to the severe matrix of this sample and the fact that any attempt at re-extraction of the sample would have been outside extraction holding time, this sample was not re-extracted.

PESTICIDES DATA

Sample A462S1 exhibited surrogate recovery results below quality control limits for Tetrachloro-*m*-xylene due to sample matrix. However, the sample was compliant for Decachlorobiphenyl.

METALS DATA

The results of soil samples have been corrected for percent solids and are reported on a dry weight basis.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and electronic deliverable has been authorized by the Laboratory Director or her designee, as verified by the following signature."



Susan L. Mazur  
Laboratory Director

1/7/02  
Date



## GC/MS SEMIVOLATILES TENTATIVELY IDENTIFIED ALKANES 000005

JOB A01-B360SDG/CASE 1113/SH901FILE Z49964LAB ID A1B36001DATE 12/12/01CLIENT ID A462S1

RT	COMPOUND	CAS NUMBER	ESTIMATED CONC. ( $\mu\text{g/L}$ )
9.23	TYPE 2		3800
11.38	TYPE 1		4500
12.83	TYPE 1		3900
19.43	TYPE 1		5200
19.63	TYPE 1		6000
19.88	TYPE 1		7000
21.57	TYPE 1		3600
22.67	TYPE 1		4100
23.88	TYPE 1		8800

•ALKANE TYPES: TYPE 1= UNKNOWN STRAIGHT CHAIN ALKANE  
TYPE 2= UNKNOWN BRANCHED ALKANE  
TYPE 3= UNKNOWN CYCLIC ALKANE  
TYPE 4= UNKNOWN ALKANE

000006

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE 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	WATER QUALITY
A462S1	A1B36001	ASP00	ASP00	-	ASP00	ASP00	ASP00

NYSDEC-1

000007

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY  
VOLATILE ANALYSIS

NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
ES1	SOIL	11/13/2001	11/14/2001	-	11/24/2001

NYSDEC-2

000008

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY  
BIN-A ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
A462S1	SOIL	11/13/2001	11/14/2001	11/23/2001	12/17/2001

NYSDEC-3

000009

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY  
PESTICIDE/PCB ANALYSIS

NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
01	SOIL	11/13/2001	11/14/2001	11/23/2001	12/14/2001

NYSDEC-4

000010

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
A462S1	SOIL	17 HAZ	11/14/2001	11/26,30/2001 12/13,23/2001	11/27,30/2001 12/19,27/2001

NYSDEC-5

000011

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY  
ORGANIC ANALYSIS

NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILIARY CLEAN UP	DIL/CONC FACTOR
2S1	SOIL	ASPO0	SONC	AS REQUIRED	AS REQUIRED

NYSDEC-6

00001

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
A46251	SOIL	ASP00	ASP00	AS REQUIRED	AS REQUIRED

NYSDEC-7



## DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

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.

This flag applies to pesticide results where the identification has been confirmed by GC/MS.

This flag is used when the analyte is found in the associated blank, as well as in the sample.

This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

This flag identifies all compounds identified in an analysis at the secondary dilution factor.

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.

This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".

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.

I or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.

I Indicates spike sample recovery is not within the quality control limits.

C Indicates the post digestion spike recovery is not within the quality control limits.

S Indicates value determined by the Method of Standard Addition.

A Indicates duplicate injection results exceeded quality control limits.

V Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.

E Indicates a value estimated or not reported due to the presence of interferences.

t Indicates analytical holding time exceedance. The value obtained should be considered an estimate.

Indicates analysis is not within the quality control limits.

Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000 - VOLATILES  
 ANALYSIS DATA SHEET

00001

Client

A462S1

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECNY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 1113

Matrix: (soil/water) SOIL

Lab Sample ID: A1B36001

Sample wt/vol: 5.03 (g/mL) G

Lab File ID: N6773.RR

Level: (low/med) LOW

Date Samp/Recv: 11/13/2001 11/14/

% Moisture: not dec. 13.6 Heated Purge: Y

Date Analyzed: 11/24/2001

GC Column: DB-624 ID: 0.25 (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
74-87-3	Chloromethane		12	U
74-83-9	Bromomethane		12	U
75-01-4	Vinyl chloride		12	U
75-00-3	Chloroethane		12	U
75-09-2	Methylene chloride		5	BJ
67-64-1	Acetone		12	U
75-15-0	Carbon disulfide		12	U
75-35-4	1,1-Dichloroethene		12	U
75-34-3	1,1-Dichloroethane		12	U
67-66-3	Chloroform		12	U
107-06-2	1,2-Dichloroethane		12	U
78-93-3	2-Butanone		3	J
71-55-6	1,1,1-Trichloroethane		12	U
56-23-5	Carbon tetrachloride		12	U
75-27-4	Bromodichloromethane		12	U
78-87-5	1,2-Dichloropropane		12	U
10061-01-5	cis-1,3-Dichloropropene		12	U
79-01-6	Trichloroethene		12	U
124-48-1	Dibromochloromethane		12	U
79-00-5	1,1,2-Trichloroethane		12	U
71-43-2	Benzene		12	U
10061-02-6	trans-1,3-Dichloropropene		12	U
75-25-2	Bromoform		12	U
108-10-1	4-Methyl-2-pentanone		12	U
591-78-6	2-Hexanone		12	U
127-18-4	Tetrachloroethene		12	U
108-88-3	Toluene		2	J
79-34-5	1,1,2,2-Tetrachloroethane		12	U
108-90-7	Chlorobenzene		12	U
100-41-4	Ethylbenzene		12	U
100-42-5	Styrene		12	U
1330-20-7	Xylene, Total		12	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane		12	U
156-59-2	cis-1,2-Dichloroethene		12	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000 - VOLATILES  
 ANALYSIS DATA SHEET

000015

Client No.

A462S1

Site: STL Buffalo

Contract: C004154

Code: REOVY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 1113

Matrix: (soil/water) SOIL

Lab Sample ID: A1B36001

Concentration: 5.03 (g/mL) G

Lab File ID: N6773.RR

Level: (low/med) LOW

Date Samp/Recv: 11/13/2001 11/14/2001

Temperature: not dec. 13.6 Heated Purge: Y

Date Analyzed: 11/24/2001

Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
156-60-5	trans-1,2-Dichloroethene		12	U
75-71-8	Dichlorodifluoromethane		12	U
75-69-4	Trichlorofluoromethane		12	U
79-20-9	Methyl Acetate		12	U
1634-04-4	Methyl tert-butyl ether		12	U
110-82-7	Cyclohexane		12	U
108-87-2	Methylcyclohexane		4	U
106-93-4	1,2-Dibromoethane (Ethylene dibromide)		12	U
98-82-8	Isopropylbenzene		12	U
541-73-1	1,3-Dichlorobenzene		12	U
106-46-7	1,4-Dichlorobenzene		12	U
95-50-1	1,2-Dichlorobenzene		12	U
96-12-8	1,2-Dibromo-3-chloropropane		12	U
120-82-1	1,2,4-Trichlorobenzene		12	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000 - VOLATILES  
 TENTATIVELY IDENTIFIED COMPOUNDS

00001

Client

A462S1

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECNY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 1113

Matrix: (soil/water) SOIL

Lab Sample ID: A1B36001

Sample wt/vol: 5.03 (g/mL) G

Lab File ID: N6773.RR

Level: (low/med) LOW

Date Samp/Recv: 11/13/2001 11/14

% Moisture: not dec. 13.6

Date Analyzed: 11/24/2001

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 10

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	5.80	8	J
2.	UNKNOWN	7.91	7	J
3.	UNKNOWN	9.09	8	J
4.	UNKNOWN	10.36	50	J
5.	UNKNOWN	11.85	30	J
6.	UNKNOWN	12.03	45	J
7.	UNKNOWN	12.44	6	J
8.	UNKNOWN	13.01	12	J
9.	UNKNOWN	18.11	13	J
10.	UNKNOWN	21.20	6	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000 - VOLATILES  
 ANALYSIS DATA SHEET

000017

Client No.

A462S1 RE

Name: SIL Buffalo Contract: C004154  
 Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 1113  
 Matrix: (soil/water) SOIL Lab Sample ID: A1E36001RI  
 Concentration: wt/vol: 5.00 (g/mL) G Lab File ID: N6786.FR  
 Detection: (low/med) LOW Date Samp/Recv: 11/13/2001 11/14/2001  
 Moisture: not dec. 13.6 Heated Purge: Y Date Analyzed: 11/25/2001  
 Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00  
 Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	12		U
74-83-9	Bromomethane	12		U
75-01-4	Vinyl chloride	12		U
75-00-3	Chloroethane	12		U
75-09-2	Methylene chloride	12		U
67-64-1	Acetone	12		U
75-15-0	Carbon disulfide	2		J
75-35-4	1,1-Dichloroethene	12		U
75-34-3	1,1-Dichloroethane	12		U
67-66-3	Chloroform	12		U
107-06-2	1,2-Dichloroethane	12		U
78-93-3	2-Butanone	12		U
71-55-6	1,1,1-Trichloroethane	12		U
56-23-5	Carbon tetrachloride	12		U
75-27-4	Bromodichloromethane	12		U
78-87-5	1,2-Dichloropropane	12		U
10061-01-5	cis-1,3-Dichloropropene	12		U
79-01-6	Trichloroethene	12		U
124-48-1	Dibromochloromethane	12		U
79-00-5	1,1,2-Trichloroethane	12		U
71-43-2	Benzene	600		E
10061-02-6	trans-1,3-Dichloropropene	12		U
75-25-2	Bromoform	12		U
108-10-1	4-Methyl-2-pentanone	12		U
591-78-6	2-Hexanone	12		U
127-18-4	Tetrachloroethene	12		U
108-88-3	Toluene	2100		E
79-34-5	1,1,2,2-Tetrachloroethane	12		U
108-90-7	Chlorobenzene	12		U
100-41-4	Ethylbenzene	2900		E
100-42-5	Styrene	12		U
1330-20-7	Xylene, Total	8500		E
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	12		U
156-59-2	cis-1,2-Dichloroethene	12		U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000 - VOLATILES  
 ANALYSIS DATA SHEET

00001

Client

A462S1 RE

Lab Name: SIL Buffalo Contract: C004154  
 Lab Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 1113  
 Matrix: (soil/water) SOIL Lab Sample ID: A1B36001RI  
 Sample wt/vol: 5.00 (g/mL) G Lab File ID: N6786.RR  
 Level: (low/med) LOW Date Samp/Recv: 11/13/2001 11/14/  
 % Moisture: not dec. 13.6 Heated Purge: X Date Analyzed: 11/25/2001  
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
156-60-5	trans-1,2-Dichloroethene		12	U
75-71-8	Dichlorodifluoromethane		12	U
75-69-4	Trichlorofluoromethane		12	U
79-20-9	Methyl Acetate		12	U
1634-04-4	Methyl tert-butyl ether		12	U
110-82-7	Cyclohexane		12	U
108-87-2	Methylcyclohexane		1200	E
106-93-4	1,2-Dibromoethane (Ethylene dibromide)		12	U
98-82-8	Isopropylbenzene		490	E
541-73-1	1,3-Dichlorobenzene		12	U
106-46-7	1,4-Dichlorobenzene		12	U
95-50-1	1,2-Dichlorobenzene		12	U
96-12-8	1,2-Dibromo-3-chloropropane		12	U
120-82-1	1,2,4-Trichlorobenzene		12	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000 - VOLATILES  
 TENTATIVELY IDENTIFIED COMPOUNDS

000019

Client No.

A462S1 RE

Name: STL Buffalo Contract: C004154

Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 1113

Matrix: (soil/water) SOIL Lab Sample ID: A1E36001RI

Sample wt/vol: 5.00 (g/mL) G Lab File ID: N6786.RR

Level: (low/med) LOW Date Samp/Recv: 11/13/2001 11/14/2001

Moisture: not dec. 13.6 Date Analyzed: 11/25/2001

Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

Number of TICs found: 10

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	7.56	360	J
2.	UNKNOWN	12.04	580	J
3.	UNKNOWN BENZENE DERIVATIVE	16.81	930	J
4.	UNKNOWN BENZENE DERIVATIVE	16.92	590	J
5.	UNKNOWN BENZENE DERIVATIVE	17.25	610	J
6.	UNKNOWN BENZENE DERIVATIVE	17.52	1000	J
7.	UNKNOWN BENZENE DERIVATIVE	18.15	710	J
8.	UNKNOWN BENZENE DERIVATIVE	18.42	430	J
9.	UNKNOWN BENZENE DERIVATIVE	18.50	720	J
10.	UNKNOWN BENZENE DERIVATIVE	19.10	420	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000 - VOLATILES  
 ANALYSIS DATA SHEET

000020

Client

M462S1 REEL

Lab Name: STL Buffalo Contract: C004154

Lab Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 1113

Matrix: (soil/water) SOIL Lab Sample ID: A1E36001DL

Sample wt/vol: 4.15 (g/mL) G Lab File ID: F7309.RR

Level: (low/med) MEQ Date Samp/Recv: 11/13/2001 11/14/2001

% Moisture: not dec. 13.6 Heated Purge: N Date Analyzed: 11/28/2001

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.00

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100.00 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		5400	U
74-83-9	Bromomethane		5400	U
75-01-4	Vinyl chloride		5400	U
75-00-3	Chloroethane		5400	U
75-09-2	Methylene chloride		5400	U
67-64-1	Acetone		5400	U
75-15-0	Carbon disulfide		5400	U
75-35-4	1,1-Dichloroethene		5400	U
75-34-3	1,1-Dichloroethane		5400	U
67-66-3	Chloroform		5400	U
107-06-2	1,2-Dichloroethane		5400	U
78-93-3	2-Butanone		1300	EDJ
71-55-6	1,1,1-Trichloroethane		5400	U
56-23-5	Carbon tetrachloride		5400	U
75-27-4	Bromodichloromethane		5400	U
78-87-5	1,2-Dichloropropane		5400	U
10061-01-5	cis-1,3-Dichloropropene		5400	U
79-01-6	Trichloroethene		5400	U
124-48-1	Dibromochloromethane		5400	U
79-00-5	1,1,2-Trichloroethane		5400	U
71-43-2	Benzene		2200	DJ
10061-02-6	trans-1,3-Dichloropropene		5400	U
75-25-2	Bromoform		5400	U
108-10-1	4-Methyl-2-pentanone		5400	U
591-78-6	2-Hexanone		5400	U
127-18-4	Tetrachloroethene		5400	U
108-88-3	Toluene		48000	D
79-34-5	1,1,2,2-Tetrachloroethane		5400	U
108-90-7	Chlorobenzene		5400	U
100-41-4	Ethylbenzene		29000	D
100-42-5	Styrene		5400	U
1330-20-7	Xylene, Total		210000	D
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane		5400	U
156-59-2	cis-1,2-Dichloroethene		5400	U



NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000 - VOLATILES  
 ANALYSIS DATA SHEET

000021

Client No.

A462S1 REDL

Name: SIL Buffalo

Contract: C004154

Code: REOVY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 1113

Matrix: (soil/water) SOIL

Lab Sample ID: A1E36001DL

Concentration: wt/vol: 4.15 (g/mL) G

Lab File ID: F7309.RR

Depth: (low/med) MED

Date Samp/Recv: 11/13/2001 11/14/2001

Temperature: not dec. 13.6 Heated Purge: N

Date Analyzed: 11/28/2001

Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 4.00

Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100.00 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
156-60-5	trans-1,2-Dichloroethene	5400		U
75-71-8	Dichlorodifluoromethane	5400		U
75-69-4	Trichlorofluoromethane	5400		U
79-20-9	Methyl Acetate	5400		U
1634-04-4	Methyl tert-butyl ether	5400		U
110-82-7	Cyclohexane	5400		U
108-87-2	Methylcyclohexane	5400		U
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	5400		U
98-82-8	Isopropylbenzene	80000		D
541-73-1	1,3-Dichlorobenzene	5400		U
106-46-7	1,4-Dichlorobenzene	5400		U
95-50-1	1,2-Dichlorobenzene	5400		U
96-12-8	1,2-Dibromo-3-chloropropane	5400		U
120-82-1	1,2,4-Trichlorobenzene	5400		U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000 - VOLATILES  
 TENTATIVELY IDENTIFIED COMPOUNDS

000022

Cler

A462S1 REDL

Lab Name: STL Buffalo

Contract: C004154

Lab Code: REQNY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 1113

Matrix: (soil/water) SOIL

Lab Sample ID: A1E36001DL

Sample wt/vol: 4.15 (g/mL) G

Lab File ID: F7309.RR

Level: (low/med) MED

Date Samp/Recv: 11/13/2001 11/1

% Moisture: not dec. 13.6

Date Analyzed: 11/28/2001

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 4.00

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100.00 (uL)

Number TICs found: 10

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN BENZENE DERIVATIVE	17.26	72000	J
2.	UNKNOWN BENZENE DERIVATIVE	17.60	52000	J
3.	UNKNOWN BENZENE DERIVATIVE	17.85	210000	J
4.	UNKNOWN BENZENE DERIVATIVE	18.51	66000	J
5.	UNKNOWN BENZENE DERIVATIVE	18.78	54000	J
6.	UNKNOWN BENZENE DERIVATIVE	18.86	120000	J
7.	UNKNOWN BENZENE DERIVATIVE	19.45	74000	J
8.	UNKNOWN BENZENE DERIVATIVE	20.07	49000	J
9.	UNKNOWN BENZENE DERIVATIVE	20.16	72000	J
10.	UNKNOWN BENZENE DERIVATIVE	20.89	68000	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 ANALYSIS DATA SHEET

000023

Client No.

M462S1

Name: STL Buffalo

Contract: C004154

Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 1113

Matrix: (soil/water) SOIL

Lab Sample ID: A1B36001

Concentration: 30.26 (g/mL) G

Lab File ID: Z49964.FR

Level: (low/med) LOW

Date Samp/Recv: 11/13/2001 11/14/2001

Temperature: 25.5 decanted: (Y/N) N

Date Extracted: 11/23/2001

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 12/17/2001

Injection Volume: 2.00 (uL)

Dilution Factor: 5.00

Cleanup: (Y/N) Y pH: 8.4

CONCENTRATION UNITS:

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

100-52-7	Benzaldehyde	2200	U
108-95-2	Phenol	2200	U
111-44-4	bis(2-Chloroethyl) ether	2200	U
95-57-8	2-Chlorophenol	2200	U
95-48-7	2-Methylphenol	2200	U
108-60-1	bis(2-Chloroisopropyl) ether	2200	U
98-86-2	Acetophenone	2200	U
106-44-5	4-Methylphenol	2200	U
621-64-7	N-Nitroso-di-N-propylamine	2200	U
67-72-1	Hexachloroethane	2200	U
98-95-3	Nitrobenzene	2200	U
78-59-1	Isophorone	2200	U
88-75-5	2-Nitrophenol	2200	U
105-67-9	2,4-Dimethylphenol	2200	U
111-91-1	bis(2-Chloroethoxy)methane	2200	U
120-83-2	2,4-Dichlorophenol	2200	U
91-20-3	Naphthalene	8600	
106-47-8	4-Chloroaniline	2200	U
87-68-3	Hexachlorbutadiene	2200	U
105-60-2	Caprolactam	2200	U
59-50-7	4-Chloro-3-methylphenol	2200	U
91-57-6	2-Methylnaphthalene	12000	
77-47-4	Hexachlorocyclopentadiene	2200	U
88-06-2	2,4,6-Trichlorophenol	2200	U
95-95-4	2,4,5-Trichlorophenol	5300	U
92-52-4	Biphenyl	160	J
91-58-7	2-Chloronaphthalene	2200	U
88-74-4	2-Nitroaniline	5300	U
131-11-3	Dimethylphthalate	2200	U
606-20-2	2,6-Dinitrotoluene	2200	U
208-96-8	Acenaphthylene	2200	U
99-09-2	3-Nitroaniline	5300	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 ANALYSIS DATA SHEET

000024  
 Client

A462S1

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 1113

Matrix: (soil/water) SOIL Lab Sample ID: A1E36001

Sample wt/vol: 30.26 (g/mL) G Lab File ID: Z49964.RR

Level: (low/med) LOW Date Samp/Recv: 11/13/2001 11/14/2001

% Moisture: 25.5 decanted: (Y/N) N Date Extracted: 11/23/2001

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/17/2001

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 8.4

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
83-32-9	Acenaphthene		360	J
51-28-5	2,4-Dinitrophenol		5300	U
100-02-7	4-Nitrophenol		5300	U
132-64-9	Dibenzofuran		180	J
121-14-2	2,4-Dinitrotoluene		2200	U
84-66-2	Diethylphthalate		2200	U
86-73-7	Fluorene		580	J
7005-72-3	4-Chlorophenylphenylether		2200	U
100-01-6	4-Nitroaniline		5300	U
534-52-1	2-Methyl-4,6-dinitrophenol		5300	U
86-30-6	N-Nitrosodiphenylamine		2200	U
101-55-3	4-Bromophenylphenylether		2200	U
118-74-1	Hexachlorobenzene		2200	U
1912-24-9	Atrazine		2200	U
87-86-5	Pentachlorophenol		5300	U
85-01-8	Phenanthrene		3800	
120-12-7	Anthracene		600	J
86-74-8	Carbazole		330	J
84-74-2	di-n-Butylphthalate		190	J
206-44-0	Fluoranthene		5400	
129-00-0	Pyrene		5600	
85-68-7	Butylbenzylphthalate		520	J
91-94-1	3,3'-Dichlorobenzidine		2200	U
56-55-3	Benzo (a) anthracene		2100	J
218-01-9	Chrysene		2500	
117-81-7	bis(2-Ethylhexyl) phthalate		6800	
117-84-0	di-n-Octylphthalate		600	J
205-99-2	Benzo (b) fluoranthene		3000	
207-08-9	Benzo (k) fluoranthene		1500	J
50-32-8	Benzo (a) pyrene		2000	J
193-39-5	Indeno (1,2,3-c,d) pyrene		1600	J
53-70-3	Dibenzo (a,h) anthracene		640	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 ANALYSIS DATA SHEET

000025

Client No.

A46251

Name: STL Buffalo Contract: C004154  
 Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 1113  
 Matrix: (soil/water) SOIL Lab Sample ID: A1B36001  
 Concentration: 30.26 (g/mL) G Lab File ID: Z49964.RR  
 Risk: (low/med) LOW Date Samp/Recv: 11/13/2001 11/14/2001  
 Moisture: 25.5 decanted: (Y/N) N Date Extracted: 11/23/2001  
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/17/2001  
 Injection Volume: 2.00 (uL) Dilution Factor: 5.00  
 Cleanup: (Y/N) Y pH: 8.4

CONCENTRATION UNITS:

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG Q
191-24-2-----	Benzo(g,h,i)perylene	1900	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 TENTATIVELY IDENTIFIED COMPOUNDS

000021

Client

A462S1

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 1113

Matrix: (soil/water) SOIL Lab Sample ID: A1E36001

Sample wt/vol: 30.26 (g/mL) G Lab File ID: Z49964.RR

Level: (low/med) LOW Date Samp/Recv: 11/13/2001 11/14

% Moisture: 25.5 decanted: (Y/N) N Date Extracted: 11/23/2001

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/17/2001

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 8.4

Number TICs found: 21

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

CAS NO.	Compound Name	RT	Est. Conc.	Q
1. 100-41-4	ETHYLBENZENE	5.46	4100	JN
2.	DIMETHYLBENZENE ISOMER	5.60	20000	BJ
3.	DIMETHYLBENZENE ISOMER	6.10	8700	J
4. 103-65-1	PROPYLBENZENE	7.30	3600	JN
5.	ETHYLMETHYLBENZENE ISOMER	7.43	27000	J
6.	TRIMETHYLBENZENE ISOMER	7.56	12000	J
7.	ETHYLMETHYLBENZENE ISOMER	7.78	6400	J
8.	TRIMETHYLBENZENE ISOMER	8.56	11000	J
9. 496-11-7	INDANE	8.81	4100	JN
10.	METHYLPROPYLBENZENE ISOMER	9.06	14000	J
11.	DIETHYLBENZENE ISOMER	9.13	6900	J
12.	ETHYLDIMETHYLBENZENE ISOMER	9.18	11000	J
13.	METHYLPROPYLBENZENE ISOMER	9.33	3900	J
14.	TETRAMETHYLBENZENE ISOMER	10.15	4000	J
15.	TETRAMETHYLBENZENE ISOMER	10.23	5900	J
16.	METHYLPROPENYLBENZENE ISOMER	10.55	3700	J
17.	UNKNOWN	10.81	4200	J
18. 90-12-0	1-METHYLNAPHTHALENE	13.16	3900	JN
19.	UNKNOWN PAH DER	24.51	12000	J
20.	UNKNOWN PAH DER	25.81	12000	J
21.	UNKNOWN PAH DER	26.38	7300	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDED - SOIL - ASP 2000 - PESTICIDES/AROCLORS  
 ANALYSIS DATA SHEET

000027

Client No.

A462S1

Name: STL Buffalo Contract: C004154  
 Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 1113  
 Matrix: (soil/water) SOIL Lab Sample ID: A1B36001  
 Concentration: 30.20 (g/mL) G Lab File ID: \_\_\_\_\_  
 Moisture: 25.0 decanted: (Y/N) N Date Samp/Recv: 11/13/2001 11/14/2001  
 Extraction: (SepF/Cont/Scoc/Scodh): SONC Date Extracted: 11/23/2001  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/14/2001  
 Dilution Volume: 1.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) Y pH: 8.40 Sulfur Cleanup: (Y/N) N

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

AS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
19-84-6	alpha-BHC	2.3	U
19-85-7	beta-BHC	2.3	U
19-86-8	delta-BHC	2.3	U
18-89-9	gamma-BHC (Lindane)	2.3	U
16-44-8	Heptachlor	2.3	U
109-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
1059-98-8	Endosulfan I (Alpha)	2.3	U
100-57-1	Dieldrin	4.4	U
102-55-9	4,4'-DDE	4.4	U
102-20-8	Endrin	4.4	U
103213-65-9	Endosulfan II (Beta)	4.4	U
102-54-8	4,4'-DDD	4.4	U
10031-07-8	Endosulfan sulfate	4.4	U
100-29-3	4,4'-DDT	4.4	U
102-43-5	Methoxychlor	23	U
103494-70-5	Endrin ketone	4.4	U
10421-93-4	Endrin aldehyde	4.4	U
10103-71-9	Chlordane (alpha & gamma)	2.3	U
10103-74-2	Chlordane (alpha & gamma)	2.3	U
10001-35-2	Toxaphene	230	U
102674-11-2	PCB-1016	44	U
101104-28-2	PCB-1221	89	U
101141-16-5	PCB-1232	44	U
103469-21-9	PCB-1242	40	J
102672-29-6	PCB-1248	44	U
101097-69-1	PCB-1254	130	
101096-82-5	PCB-1260	44	U

NYS DEC

-1-

## INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

A462S1

Contract: NY00-096Lab Code: STL BFLOCase No.: BH901

SAS No.:

SDG NO.: 1113Matrix (soil/water): SOILLab Sample ID: AD124607Level (low/med): LOWDate Received: 11/14/01% Solids: 75Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	5.3	B		P
7440-38-2	Arsenic	5.6			P
7440-39-3	Barium	120			P
7440-41-7	Beryllium	0.38	B		P
7440-43-9	Cadmium	0.87			P
7440-47-3	Chromium	15.0		E	P
7440-48-4	Cobalt	2.4	B		P
7440-50-8	Copper	67.6			P
7439-92-1	Lead	80.3		E	P
7440-02-0	Nickel	13.6		E	P
7782-49-2	Selenium	0.80			P
7440-22-4	Silver	0.69	B		P
7439-97-6	Mercury	0.374			CV
7440-28-0	Thallium	0.68	U		P
7440-62-2	Vanadium	4.5	B		P
7440-66-6	Zinc	205		E	P
	Tin	32.2			P

Color Before: BLACK

Clarity Before: \_\_\_\_\_

Texture: CLAYColor After: YELLOWClarity After: CLOUDY

Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**SEVERN  
TRENT  
SERVICES**

February 13, 2002

Mr. John Ryan  
NYSDEC  
625 Broadway  
Albany, NY 12233-3502

**STL Buffalo**  
10 Hazelwood Drive  
Suite 106  
Amherst, NY 14228

Tel: 716 691 2600  
Fax: 716 691 7991  
www.stl-inc.com

RE: Analytical Results A02-0391, A02-0510

Dear Mr. Ryan:

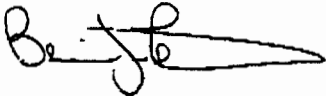
Please find enclosed analytical results concerning the sample recently submitted by your agency. The pertinent information regarding these analyses is listed below:

Case #: SH901  
SDG#: 0115  
Matrix: Soil  
Sample Received: 01/15/02  
Sample Date: 01/15/02

If you have any questions concerning these data, please contact the Program Manager, at (716) 691-2600 and refer to the I.D. number listed below. It has been our pleasure to provide the New York State Department of Environmental Conservation with environmental testing services. We look forward to serving you in the future.

Sincerely,

STL Buffalo



Brian J. Fischer  
Program Manager



Susan L. Mazur  
Laboratory Director

BJF/SLM/kk  
Enclosure  
cc: David Szymanski

I.D. #A02-0391, A02-0510  
#NY1A8770.9

This report contains 754 pages which are individually numbered.

000001

SAMPLE DATA SUMMARY PACKAGE

000002

SDG NARRATIVE

Laboratory Name: STL Buffalo

Laboratory Code: STL Buffalo

SDG Number: 0115

Sample Identification: A46241  
A46282

METHODOLOGY

The specific methodologies employed in obtaining the enclosed analytical results are enclosed on the specific data tables. The method numbers presented refer to the following U.S. Environmental Protection Agency references:

- Analyses performed in accordance to the 2000 New York State Department of Environmental Conservation analytical Services Protocol.

COMMENTS

The enclosed data has been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Sample dilutions were performed for Semivolatile and Metals Data as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Due to instrument problems and therefore potential holding time issues, volatile data was analyzed by STL Connecticut. The data is included in this report as Appendix A.

The cooler was received at an ambient temperature, no ice.

No deviations from protocol were encountered for Wet Chemistry Data.

Deviations from protocol were encountered for the following:

VOLATILE DATA

Some compounds of interest were not calibrated for in the initial or the continuing calibration. These compounds were searched for as TICs.

SEMIVOLATILE DATA

Due to instrument problem, Gel Permeation Cleanup was performed by STL Connecticut.

SEMIVOLATILE DATA CONT

MSBD16 exhibited spike recovery results above quality control limits for 2,4-Dinitrotoluene. The relative percent difference (RPD) for spike recovery between MSB16 and MSBD16 was above quality control limits for Phenol and Acenaphthene. However, all MSB16 recoveries were compliant.

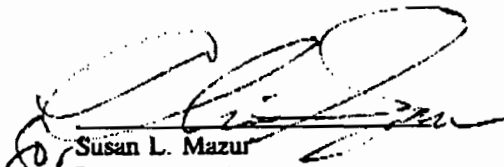
METALS DATA

The results of soil samples have been corrected for percent solids and are reported on a dry weight basis.

Sample A46241 MS exhibited spike recovery results above quality control limits for Barium and below for Cadmium, Chromium, and Mercury. However, the Laboratory Fortified Blank was compliant.

The relative percent difference (RPD) for spike recovery between samples A46241 and A46241 MD was outside quality control limits for Antimony, Arsenic, Barium, Cadmium, Chromium, Copper, Lead, Silver, Zinc, and Tin. However, the individual recovery results were compliant.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and electronic deliverable has been authorized by the Laboratory Director or her designee, as verified by the following signature."

  
Susan L. Mazur  
Laboratory Director

2/14/02  
Date

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 CONSERVATION

000004

SAMPLE IDENTIFICATION  
AND  
ANALYTICAL REQUEST SUMMARY

NAME: SEVERN TRENT LABORATORIES, INC.

CUSTOMER SAMPLE ID	LABORATORY SAMPLE ID	ANALYTICAL REQUIREMENTS					
		VOA GC/MS	BNA GC/MS	VOA GC	PEST PCB	METALS	WATER QUALITY
A46241	A2039101	-	ASPO0	-	-	ASPO0	ASPO0
A46282	A2051001	ASPO0	-	-	-	-	ASPO0

NYSDEC-1

00000

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY  
VOLATILE ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIFS, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
A46282	SOIL	01/17/2002	01/17/2002	01/25/2002	01/25/2002

NYSDFC-2

000006

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY  
B/N-A ANALYSIS

NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
41	SOIL	01/15/2002	01/15/2002	01/18/2002	02/08/2002

NYSDEC-3

00000

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
A46241	SOIL	17 HAZ	01/15/2002	01/16/2002-02/04/2002	01/19-23/2002-02/04/2002

NYSDEC-5



000008

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY  
ORGANIC ANALYSIS

NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILIARY CLEAN UP	DIL/CONC FACTOR
41	SOIL	ASP00	SONC	AS REQUIRED	AS REQUIRED
82	SOIL	ASP00	-	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
A46241	SOIL	ASP00	ASP00	AS REQUIRED	AS REQUIRED
A46282	SOIL	ASP00	ASP00	AS REQUIRED	AS REQUIRED

NYSDEC-7

000010

## GC/MS SEMIVOLATILES TENTATIVELY IDENTIFIED ALKANES

JOB A02-0391SDG/CASE 0115/SH901FILE 450639LAB ID A2039101DATE 02/08/02CLIENT ID A46241

RT	COMPOUND	CAS NUMBER	ESTIMATED CONC.( $\mu$ g/L)
17.28	TYPE 1		2290
17.22	TYPE 2		3610
20.13	TYPE 2		2880
21.22	TYPE 1		3610
21.78	TYPE 1		6090
23.00	TYPE 1		11200
23.65	TYPE 1		12900
24.33	TYPE 1		18700
25.02	TYPE 1		18900
25.72	TYPE 1		13700
26.42	TYPE 1		11700
27.15	TYPE 1		9130
27.97	TYPE 1		5230
28.43	TYPE 1		4240

•ALKANE TYPES: TYPE 1- UNKNOWN STRAIGHT CHAIN ALKANE  
TYPE 2= UNKNOWN BRANCHED ALKANE  
TYPE 3= UNKNOWN CYCLIC ALKANE  
TYPE 4= UNKNOWN ALKANE

Date: 02/13/2002  
Time: 14:53:19

Dilution Log w/Code Information  
For Project NY1A8770.9, Task 1, SDG 0115

Page  
Rept

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
A46241	A2039101	EPA SVOA	10.00	008
A46241	A2039101	Zinc - Total	10.00	
A46241	A2039101ND	Zinc - Total	10.00	
A46241	A2039101MS	Zinc - Total	10.00	

0000

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - non-target compounds (TICS) exceeded 5X the total response of one of the Internal Standards
- 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 COMMENT PAGE

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 a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. 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.

K Indicates the post digestion spike recovery is not within the quality control limits.

S Indicates value determined by the Method of Standard Addition.

M Indicates duplicate injection results exceeded quality control limits.

W Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.

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 analysis is not within the quality control limits.

+ Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 ANALYSIS DATA SHEET

0000

Client

A46241

Lab Name: STL Buffalo Contract: C004154

Lab Code: REOVY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0115

Matrix: (soil/water) SOIL Lab Sample ID: A2039101

Sample wt/vol: 30.30 (g/mL) G Lab File ID: Y50639.RR

Level: (low/med) LOW Date Samp/Recv: 01/15/2002 01/15/

% Moisture: 57.7 decanted: (Y/N) N Date Extracted: 01/18/2002

Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/08/2002

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 6.7

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
100-52-7	Benzaldehyde		7700	U
108-95-2	Phenol		7700	U
111-44-4	bis(2-Chloroethyl) ether		7700	U
95-57-8	2-Chlorophenol		7700	U
95-48-7	2-Methylphenol		7700	U
108-60-1	bis(2-Chloroisopropyl) ether		7700	U
98-86-2	Acetophenone		7700	U
106-44-5	4-Methylphenol		400	J
621-64-7	N-Nitroso-di-N-propylamine		7700	U
67-72-1	Hexachloroethane		7700	U
98-95-3	Nitrobenzene		7700	U
78-59-1	Isophorone		7700	U
88-75-5	2-Nitrophenol		7700	U
105-67-9	2,4-Dimethylphenol		7700	U
111-91-1	bis(2-Chloroethoxy) methane		7700	U
120-83-2	2,4-Dichlorophenol		7700	U
91-20-3	Naphthalene		520	J
106-47-8	4-Chloroaniline		7700	U
87-68-3	Hexachlorobutadiene		7700	U
105-60-2	Caprolactam		7700	U
59-50-7	4-Chloro-3-methylphenol		7700	U
91-57-6	2-Methylnaphthalene		7700	U
77-47-4	Hexachlorocyclopentadiene		7700	U
88-06-2	2,4,6-Trichlorophenol		7700	U
95-95-4	2,4,5-Trichlorophenol		19000	U
92-52-4	Biphenyl		7700	U
91-58-7	2-Chloronaphthalene		7700	U
88-74-4	2-Nitroaniline		19000	U
131-11-3	Dimethylphthalate		7700	U
606-20-2	2,6-Dinitrotoluene		7700	U
208-96-8	Acenaphthylene		260	J
99-09-2	3-Nitroaniline		19000	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 ANALYSIS DATA SHEET

000014

Client No.

A46241

Name: STL Buffalo Contract: C004154  
 Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0115  
 Matrix: (soil/water) SOIL Lab Sample ID: A2039101  
 Concentration: 30.30 (g/mL) G Lab File ID: Y50639.RR  
 Method: (low/med) LOW Date Samp/Recv: 01/15/2002 01/15/2002  
 Temperature: 57.7 decanted: (Y/N) N Date Extracted: 01/18/2002  
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/08/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 10.00  
 Cleanup: (Y/N) Y pH: 6.7

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9	Acenaphthene	650		J
51-28-5	2,4-Dinitrophenol	19000		U
100-02-7	4-Nitrophenol	19000		U
132-64-9	Dibenzofuran	370		J
121-14-2	2,4-Dinitrotoluene	7700		U
84-66-2	Diethylphthalate	7700		U
86-73-7	Fluorene	750		J
7005-72-3	4-Chlorophenylphenylether	7700		U
100-01-6	4-Nitroaniline	19000		U
534-52-1	2-Methyl-4,6-dinitrophenol	19000		U
86-30-6	N-Nitrosodiphenylamine	7700		U
101-55-3	4-Bromophenylphenylether	7700		U
118-74-1	Hexachlorobenzene	7700		U
1912-24-9	Atrazine	7700		U
87-86-5	Pentachlorophenol	19000		U
85-01-8	Phenanthrene	3600		J
120-12-7	Anthracene	840		J
86-74-8	Carbazole	370		J
84-74-2	di-n-Butylphthalate	7200		J
206-44-0	Fluoranthene	5300		J
129-00-0	Pyrene	4200		J
85-68-7	Butylbenzylphthalate	10000		
91-94-1	3,3'-Dichlorobenzidine	7700		U
56-55-3	Benzo (a) anthracene	2400		J
218-01-9	Chrysene	2400		J
117-81-7	bis (2-Ethylhexyl) phthalate	6800		J
117-84-0	di-n-Octylphthalate	230		J
205-99-2	Benzo (b) fluoranthene	2600		J
207-08-9	Benzo (k) fluoranthene	1800		J
50-32-8	Benzo (a) pyrene	2200		J
193-39-5	Indeno (1,2,3-c,d) pyrene	730		J
53-70-3	Dibenzo (a, h) anthracene	280		J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 ANALYSIS DATA SHEET

0000

Client

A46241

Lab Name: SIL Buffalo

Contract: C004154

Lab Code: RECONY

Case No.: SF901

SAS No.: \_\_\_\_\_

SDG No.: 0115

Matrix: (soil/water) SOIL

Lab Sample ID: A2039101

Sample wt/vol: 30.30 (g/mL) G

Lab File ID: Y50639.RR

Level: (low/med) LOW

Date Samp/Recv: 01/15/2002 01/15/02

% Moisture: 57.7 decanted: (Y/N) N

Date Extracted: 01/18/2002

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 02/08/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 6.7

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
191-24-2-----	Benzo(g,h,i)perylene	520	J



NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 TENTATIVELY IDENTIFIED COMPOUNDS

000016

Client No.

A46241

re: STL Buffalo Contract: C004154  
 de: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0115  
 : (soil/water) SOIL Lab Sample ID: A2039101  
 wt/vol: 30.30 (g/mL) G Lab File ID: Y50639.RR  
 (low/med) LOW Date Samp/Recv: 01/15/2002 01/15/2002  
 ture: 57.7 decanted: (Y/N) N Date Extracted: 01/18/2002  
 trated Extract Volume: 500 (uL) Date Analyzed: 02/08/2002  
 ion Volume: 2.00 (uL) Dilution Factor: 10.00  
 earup: (Y/N) Y pH: 6.7

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

TICs found: 16

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	SUSPECTED ALDOL COND. PRODUCT	5.88	7200	ABJ
2.	UNKNOWN	18.00	5000	J
3. 544-63-8	TETRADECANOIC ACID	18.08	4800	JN
4. 57-10-3	HEXADECANOIC ACID	19.40	64000	JN
5.	UNKNOWN	19.65	2700	J
6.	UNKNOWN	19.81	2900	J
7.	UNKNOWN	19.98	3200	J
8.	UNKNOWN	20.41	15000	J
9. 57-11-4	OCTADECANOIC ACID	20.48	17000	JN
10.	UNKNOWN PAH DER.	21.13	6600	J
11.	UNKNOWN	22.40	24000	J
12.	UNKNOWN	23.08	5500	J
13.	UNKNOWN	23.15	7900	J
14.	UNKNOWN	23.21	2800	J
15.	UNKNOWN	23.25	2800	J
16.	UNKNOWN	27.06	3000	J

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

A46241

Contract: NY00-096

Lab Code: STL BFLO

Case No.: SH901

SAS No.:

SDG NO.: 0115

Matrix (soil/water): SOIL

Lab Sample ID: AD200808

Level (low/med): LOW

Date Received: 1/15/02

% Solids: 42

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	46.7		*	P
7440-38-2	Arsenic	11.3		*	P
7440-39-3	Barium	268		N*	P
7440-41-7	Beryllium	0.80	B		P
7440-43-9	Cadmium	28.0		N*	P
7440-47-3	Chromium	103		NE*	P
7440-48-4	Cobalt	11.0	B		P
7440-50-8	Copper	203		*	P
7439-92-1	Lead	2200		E*	P
7440-02-0	Nickel	39.9			P
7782-49-2	Selenium	4.5			P
7440-22-4	Silver	4.1		*	P
7439-97-6	Mercury	0.750		N	CV
7440-28-0	Thallium	1.6	B		P
7440-62-2	Vanadium	32.1			P
7440-66-6	Zinc	7400		*	P
	Tin	83.7		*	P

Color Before: BROWN

Clarity Before:

Texture: SILT

Color After: BROWN

Clarity After: CLOUDY

Artifacts:

Comments:

NYS DEC  
 NYS DEC ASP Contract #C004154 - Region 9  
 Wet Chemistry Analysis

000018

Client Sample No.

A46241

Site: STL Buffalo

Contract: C004154

County: RECNY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0115

(soil/water): SOIL

Lab Sample ID: A2039101

Depth: 0.0

Date Samp/Recv: 01/15/2002 01/15/2002

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
able pH	S.U.	6.70				9045	01/17/2002

Notes:

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

# ANALYTICAL REPORT

JOB NUMBER: 200463

Prepared For:

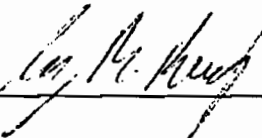
SEVERN TRENT LABORATORIES-BUFFALO  
10 Hazelwood Drive  
Amherst, NY 14228

Project: NYSDEC

Attention: Michelle Buchwald

Date: 01/31/2002

Signature



Name: Greg M. Kudej

Title: Project Manager

E-Mail: gkudej@stl-inc.com

Date

1/31/02

STL Connecticut  
128 Long Hill Cross Road  
Shelton, CT 06484

This Report Contains ( 101 ) Pages

000633

STL Report : 200463  
STL-BUFFALO

Case Narrative

**Sample Receipt** – All samples were received in good condition and at the proper temperature.

**Volatile Organics** – Volatile organics were determined by purge and trap GC/MS using guidance provided in Method 5035A/8260B. The instrumentation used was a Tekmar Model 2000/2016 Concentrator/Archon 51 autosampler interfaced with a Hewlett Packard Model 5971A GC/MS/DS.

The spike compound percent recoveries were within the laboratory generated guidelines in the independent source quality control sample (020PPB\_QCS) except for chloromethane, vinyl chloride, bromomethane, chloroethane, 1,1-dichloroethene, methylene chloride and 1,1-dichloroethane.

Sample SH901-0115-A46282 was analyzed twice with results exhibiting suppression of internal standard areas. One analysis for this sample was reported since matrix interference was proven.

**Sample Calculation:**

Sample ID- SH901-0115-A46282  
Compound-Acetone

$$\frac{(14793)(125)}{(215724)(.130)(5)(.907)} = 14.5 = 15 \text{ UG/KG.}$$

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative.

000634

SAMPLE INFORMATION	
Job Number.: 200463	Project Number.....: 20000334
Customer....: SEVERN TRENT LABORATORIES-BUFFALO	Customer Project ID....: NYSDEC
Attn.....: Michelle Buchwald	Project Description....: NYSDEC

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
200463-1	SH901-0115-A46282	Soil	01/17/2002	08:20	01/25/2002	10:03

Job Number: 200463      Date: 01/31/2002      LABORATORY TEST RESULTS

CUSTOMER: SEVERN TRENT LABORATORIES-BUFFALO      PROJECT: MTSOEC      ANALYST: Michelle Buchwald

Customer Sample ID: 3N901-0115-A46282      Laboratory Sample ID: 200463-1  
 Date Sampled: 01/17/2002      Date Received: 01/25/2002  
 Time Sampled: 08:20      Time Received: 10:05  
 Sample Matrix: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE REPORT	Q FLAG	MDL	ML	DILUTION	UNIT	RETCN	DATE/TIME	TECH
Solids	% Solids, Solid	90.7		0.10	0.10	1	%	2718	01/29/02 0000	ksw
	% Moisture, Solid	9.3		0.10	0.10	1	%	2718	01/29/02 0000	ksw
82608	Volatile Organics	ND			6	1.00000	ug/Kg	2779	01/25/02 1505	pan
	Chloroethane, Solid*	ND		0.9	6	1.00000	ug/Kg	2779	01/25/02 1505	pan
	Vinyl chloride, Solid*	ND		0.4	6	1.00000	ug/Kg	2779	01/25/02 1505	pan
	Bromoethane, Solid*	ND		3	6	1.00000	ug/Kg	2779	01/25/02 1505	pan
	Chloroethane, Solid*	ND		0.8	6	1.00000	ug/Kg	2779	01/25/02 1505	pan
	1,1-Dichloroethane, Solid*	ND		0.6	6	1.00000	ug/Kg	2779	01/25/02 1505	pan
	Carbon disulfide, Solid*	ND		0.2	6	1.00000	ug/Kg	2779	01/25/02 1505	pan
	Acetone, Solid*	15		6	11	1.00000	ug/Kg	2779	01/25/02 1505	pan
	Methylene chloride, Solid*	4		1	6	1.00000	ug/Kg	2779	01/25/02 1505	pan
	1,1-Dichloroethane, Solid*	ND		0.6	6	1.00000	ug/Kg	2779	01/25/02 1505	pan
	2-Butanone (MEK), Solid*	ND		3	11	1.00000	ug/Kg	2779	01/25/02 1505	pan
	Chloroform, Solid*	ND		0.7	6	1.00000	ug/Kg	2779	01/25/02 1505	pan
	1,1,1-Trichloroethane, Solid*	ND		0.6	6	1.00000	ug/Kg	2779	01/25/02 1505	pan
	Carbon tetrachloride, Solid*	ND		0.4	6	1.00000	ug/Kg	2779	01/25/02 1505	pan
	1,2-Dichloroethane (total), Solid*	ND		0.6	6	1.00000	ug/Kg	2779	01/25/02 1505	pan
	Benzene, Solid*	ND		0.6	6	1.00000	ug/Kg	2779	01/25/02 1505	pan
	1,2-Dichloroethane, Solid*	ND		0.4	6	1.00000	ug/Kg	2779	01/25/02 1505	pan
	Trichloroethane, Solid*	ND		0.6	6	1.00000	ug/Kg	2779	01/25/02 1505	pan
	1,2-Dichloropropane, Solid*	ND		0.4	6	1.00000	ug/Kg	2779	01/25/02 1505	pan
	Bromodichloromethane, Solid*	ND		0.6	6	1.00000	ug/Kg	2779	01/25/02 1505	pan
cis-1,3-Dichloropropene, Solid*	ND		0.4	6	1.00000	ug/Kg	2779	01/25/02 1505	pan	
4-Methyl-2-pentene (MIBK), Solid*	ND		3	11	1.00000	ug/Kg	2779	01/25/02 1505	pan	
Toluene, Solid*	ND		0.4	6	1.00000	ug/Kg	2779	01/25/02 1505	pan	
trans-1,3-Dichloropropene, Solid*	ND		0.4	6	1.00000	ug/Kg	2779	01/25/02 1505	pan	
1,1,2-Trichloroethane, Solid*	ND		0.6	6	1.00000	ug/Kg	2779	01/25/02 1505	pan	

\* In Description = Dry Wgt.

LABORATORY TEST RESULTS		Date: 01/31/2002							
CUSTOMER: SEVERN TIENT LABORATORIES-BUFFALO		PROJECT: NYSDEC							
Customer Sample ID: SW901-0115-A46282		Laboratory Sample ID: 200463-1							
Date Sampled: 01/17/2002		Date Received: 01/25/2002							
Time Sampled: 08:20		Time Received: 10:05							
Sample Matrix: Soil		ANALYST: Michelle Buchwald							
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	UNITS	CONC	ML	DILUTION	UNITS	DATE/TIME	TEST
	Tetrachloroethene, Solid*	ND		0.4	6	1.00000	ug/Kg	01/25/02 1505	perm
	2-Hexanone, Solid*	ND		4	11	1.00000	ug/Kg	01/25/02 1505	perm
	Dibromochloromethane, Solid*	ND		0.4	6	1.00000	ug/Kg	01/25/02 1505	perm
	Chlorobenzene, Solid*	ND		0.6	6	1.00000	ug/Kg	01/25/02 1505	perm
	Ethylbenzene, Solid*	ND		0.4	6	1.00000	ug/Kg	01/25/02 1505	perm
	Styrene, Solid*	ND		0.6	6	1.00000	ug/Kg	01/25/02 1505	perm
	Bromoform, Solid*	ND		0.7	6	1.00000	ug/Kg	01/25/02 1505	perm
	1,1,2-Tetrachloroethane, Solid*	ND	4	1	6	1.00000	ug/Kg	01/25/02 1505	perm
	Xylenes (total), Solid*	ND		1	6	1.00000	ug/Kg	01/25/02 1505	perm

\* In Description = Dry Wgt.



000637

TENTATIVELY IDENTIFIED COMPOUNDS

Job Number: 200463

Date: 01/31/2002

OWNER: SEVERN TRENT LABORATORIES-BUFFALO

PROJECT: NYSDEC

ANALYST: Nichelle Buchwald

Customer Sample ID: SH901-0115-A46282  
 Date Sampled.....: 01/17/2002  
 Time Sampled.....: 08:20  
 Sample Matrix.....: Soil

Laboratory Sample ID: 200463-1  
 Date Received.....: 01/25/2002  
 Time Received.....: 10:05  
 Sample Type.....:

TEST METHOD	PARAMETER/TEST DESCRIPTION	CAS NUMBER	R.T.	REF. CONC.	UNITS	DATE
TIC	Volatile TIC					
	Butane, Solid*	106-97-8	6.476	28	ug/Kg	01/25/02
	Butane, 2-methyl-, Solid*	78-78-4	7.346	23	ug/Kg	01/25/02
	Pentane, Solid*	109-66-0	7.712	20	ug/Kg	01/25/02
	Unknown, Solid*		7.869	16	ug/Kg	01/25/02
	Pentane, 2-methyl-, Solid*	107-83-5	8.965	13	ug/Kg	01/25/02
	Unknown, Solid*		11.541	4.9	ug/Kg	01/25/02
	Unknown, Solid*		20.227	5.4	ug/Kg	01/25/02
	Unknown, Solid*		20.731	3.0	ug/Kg	01/25/02
	Unknown, Solid*		21.915	15	ug/Kg	01/25/02
Unknown, Solid*		29.278	3.0	ug/Kg	01/25/02	

Description = Dry Wgt.

00000000

**SEVERN  
TRENT  
SERVICES**

**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#: A02-2442

STL Project#: NY1A8770.9

SDG#: 0315

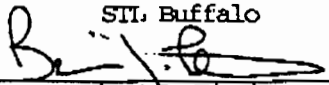
Site Name: NYS DEC ASP Contract #C004154 - Region 9

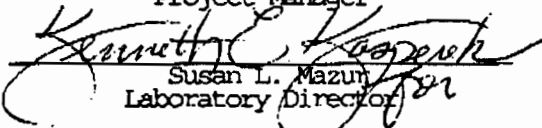
Task: CASE SH902

Mr. John Ryan  
NYSDEC  
625 Broadway - 4th Floor  
Albany, NY 12233

CC: Mr. Dave Szymanski

STL Buffalo

  
\_\_\_\_\_  
Brian J. Fischer  
Project Manager

  
\_\_\_\_\_  
Susan L. Mazur  
Laboratory Director

04/16/2002

This report contains 40 pages which are individually numbered.

000004

NON-CONFORMANCE SUMMARY

Job#: A02-2442

STL Project#: NYLA8770.9

SDG#: 0315

Site Name: NYS DEC ASP Contract #C004154 - Region 9

General 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 and Dissolved Oxygen 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

A02-2442

Sample Cooler(s) were received at the following temperature(s) 5°C.

GC/MS Volatile Data

MSB57 exhibited spike recovery results above quality control limits for 1,1-Dichloroethene. However, the compound was not detected in the associated sample.

Sample A4629AMS exhibited spike recovery results above quality control limits for 1,1-Dichloroethene, Benzene, and Toluene. The RPD between samples A4629AMS and A4629ASD was above quality control limits for 1,1-Dichloroethene, Benzene and Toluene. However, sample A4629ASD exhibited compliant individual recovery results.

Sample A4629AMS also exhibited surrogate recovery results above quality control limits for 1,2-Dichloroethane-D4. However, all other surrogates were compliant.

All samples were preserved to a PH less than 2.

The analyte 2-Hexanone was detected in Method Blank VELK57 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.

The analytes Acetone, 2-Butanone, 4-Methyl-2-pentanone and 2-Hexanone were detected in Method Blank VELK61 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.

GC/MS Semivolatile Data

Spiking compound 4-nitrophenol was above control limits in the matrix spike blank matrix spike and the matrix spike duplicate due to low upper control limits and responses at or above the calibrations linear range.

The internal standards in sample A4628A exceeded quality control limits. The sample was reanalyzed with similar results, thus indicating a potential matrix interference.

GC Extractable Data

Sample A4626A had an initial pH of >2.0 prior to extraction and was reprepared with new sample volume that had a pH of 8.0.

Sample A4628A exhibited surrogate recovery results above quality control limits for Tetrachloro-m-xylene on column RTXCLP1. However, all other surrogate recoveries were compliant.

Metals Data

The CLP spiking solution does not contain the elements Calcium, Potassium, Magnesium or Sodium. Therefore those tests have been cancelled from the matrix spike and matrix spike duplicate samples.

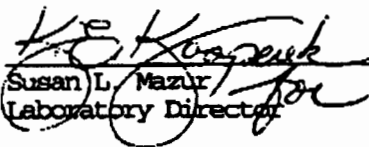
Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

\*\*\*\*\*

The results presented in this report relate only to the analytical testing under the 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.

"I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and electronic deliverable has been authorized by the Laboratory Director or her designee as verified by the following signature."

  
Susan L. Mazur  
Laboratory Director

4/16/2002  
Date

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

000006

SAMPLE IDENTIFICATION  
AND  
ANALYTICAL REQUEST SUMMARY

NAME: SEVERN TRENT LABORATORIES, INC.

CUSTOMER SAMPLE ID	LABORATORY SAMPLE ID	ANALYTICAL REQUIREMENTS					
		VOA GC/MS	BNA GC/MS	VOA GC	PEST PCB	METALS	WATER QUALITY
A4622B	A2244201	ASP00	ASP00	-	ASP00	ASP00	ASP00
A4623A	A2244202	ASP00	ASP00	-	ASP00	ASP00	ASP00
A4623B	A2244203	ASP00	ASP00	-	ASP00	ASP00	ASP00
A4624A	A2244204	ASP00	ASP00	-	ASP00	ASP00	ASP00
A4624B	A2244205	ASP00	ASP00	-	ASP00	ASP00	ASP00
A4625A	A2244206	ASP00	ASP00	-	ASP00	ASP00	ASP00
A4625B	A2244207	ASP00	ASP00	-	ASP00	ASP00	ASP00
A4626A	A2244208	ASP00	ASP00	-	ASP00	ASP00	ASP00
A4627A	A2244209	ASP00	ASP00	-	ASP00	ASP00	ASP00
A4628A	A2244210	ASP00	ASP00	-	ASP00	ASP00	ASP00
A4629A	A2244211	ASP00	ASP00	-	ASP00	ASP00	ASP00

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
A4622B	WATER	03/15/2002	03/15/2002	-	03/21/2002
A4623A	WATER	03/15/2002	03/15/2002	-	03/20/2002
A4623B	WATER	03/15/2002	03/15/2002	-	03/20/2002
A4624A	WATER	03/15/2002	03/15/2002	-	03/20/2002
A4624B	WATER	03/15/2002	03/15/2002	-	03/20/2002
A4625A	WATER	03/15/2002	03/15/2002	-	03/20/2002
A4625B	WATER	03/15/2002	03/15/2002	-	03/21/2002
A4626A	WATER	03/15/2002	03/15/2002	-	03/20/2002
A4627A	WATER	03/15/2002	03/15/2002	-	03/20/2002
A4628A	WATER	03/15/2002	03/15/2002	-	03/21/2002
A4629A	WATER	03/15/2002	03/15/2002	-	03/20/2002

NYSDEC-2

000008

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY  
BIN-A ANALYSIS

NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
4622B	WATER	03/15/2002	03/15/2002	03/19/2002	03/22/2002
4623A	WATER	03/15/2002	03/15/2002	03/19/2002	03/22/2002
4623B	WATER	03/15/2002	03/15/2002	03/19/2002	03/22/2002
4624A	WATER	03/15/2002	03/15/2002	03/19/2002	04/01/2002
4624B	WATER	03/15/2002	03/15/2002	03/19/2002	03/22/2002
4625A	WATER	03/15/2002	03/15/2002	03/19/2002	03/22/2002
4625B	WATER	03/15/2002	03/15/2002	03/19/2002	03/22/2002
4626A	WATER	03/15/2002	03/15/2002	03/19/2002	03/22/2002
4627A	WATER	03/15/2002	03/15/2002	03/19/2002	03/22/2002
4628A	WATER	03/15/2002	03/15/2002	03/19/2002	03/27/2002
4629A	WATER	03/15/2002	03/15/2002	03/19/2002	03/28/2002

NYSDEC-3

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATIONSAMPLE PREPARATION AND ANALYSIS SUMMARY  
PESTICIDE/PCB ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
A4622B	WATER	03/15/2002	03/15/2002	03/19/2002	03/20/2002
A4623A	WATER	03/15/2002	03/15/2002	03/19/2002	03/20/2002
A4623B	WATER	03/15/2002	03/15/2002	03/19/2002	03/20/2002
A4624A	WATER	03/15/2002	03/15/2002	03/19/2002	03/20/2002
A4624B	WATER	03/15/2002	03/15/2002	03/19/2002	03/20/2002
A4625A	WATER	03/15/2002	03/15/2002	03/19/2002	03/20/2002
A4625B	WATER	03/15/2002	03/15/2002	03/19/2002	03/20/2002
A4626A	WATER	03/15/2002	03/15/2002	03/19/2002	03/21/2002
A4627A	WATER	03/15/2002	03/15/2002	03/19/2002	03/20/2002
A4628A	WATER	03/15/2002	03/15/2002	03/19/2002	03/21/2002
A4629A	WATER	03/15/2002	03/15/2002	03/19/2002	03/21/2002

NYSDEC-4



000010

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY  
ORGANIC ANALYSIS

NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILIARY CLEAN UP	DIL/CONC FACTOR
4622B	WATER	ASPOO	CLLE/SEPF	AS REQUIRED	AS REQUIRED
4623A	WATER	ASPOO	CLLE/SEPF	AS REQUIRED	AS REQUIRED
4623B	WATER	ASPOO	CLLE/SEPF	AS REQUIRED	AS REQUIRED
4624A	WATER	ASPOO	CLLE/SEPF	AS REQUIRED	AS REQUIRED
4624B	WATER	ASPOO	CLLE/SEPF	AS REQUIRED	AS REQUIRED
4625A	WATER	ASPOO	CLLE/SEPF	AS REQUIRED	AS REQUIRED
4625B	WATER	ASPOO	CLLE/SEPF	AS REQUIRED	AS REQUIRED
4626A	WATER	ASPOO	CLLE/SEPF	AS REQUIRED	AS REQUIRED
4627A	WATER	ASPOO	CLLE/SEPF	AS REQUIRED	AS REQUIRED
4628A	WATER	ASPOO	CLLE/SEPF	AS REQUIRED	AS REQUIRED
4629A	WATER	ASPOO	CLLE/SEPF	AS REQUIRED	AS REQUIRED

NYSDEC-6

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATIONSAMPLE 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
A4622B	WATER	T ME	03/15/2002	03/21-04/01/2002	03/27-04/11/2002
A4623A	WATER	T ME	03/15/2002	03/21-04/01/2002	03/27-04/11/2002
A4623B	WATER	T ME	03/15/2002	03/21-04/01/2002	03/27-04/11/2002
A4624A	WATER	T ME	03/15/2002	03/21-04/01/2002	03/27-04/11/2002
A4624B	WATER	T ME	03/15/2002	03/21-04/01/2002	03/27-04/11/2002
A4625A	WATER	T ME	03/15/2002	03/21-04/01/2002	03/27-04/11/2002
A4625B	WATER	T ME	03/15/2002	03/21-04/01/2002	03/27-04/03/2002
A4626A	WATER	T ME	03/15/2002	03/21-04/01/2002	03/27-04/11/2002
A4627A	WATER	T ME	03/15/2002	03/21-04/01/2002	03/27-04/03/2002
A4628A	WATER	T ME	03/15/2002	03/21-04/01/2002	03/27-04/11/2002
A4629A	WATER	T ME	03/15/2002	03/21-04/01/2002	03/27-04/03/2002

NYSDEC-5

000012

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY  
INORGANIC ANALYSIS

NAME: SEVERN TRENT LABORATORIES, INC.

LABORATORY SAMPLE CODE	MATRIX	ANALYTICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
522B	WATER	ASPO0	ASPO0	AS REQUIRED	AS REQUIRED
523A	WATER	ASPO0	ASPO0	AS REQUIRED	AS REQUIRED
523B	WATER	ASPO0	ASPO0	AS REQUIRED	AS REQUIRED
524A	WATER	ASPO0	ASPO0	AS REQUIRED	AS REQUIRED
524B	WATER	ASPO0	ASPO0	AS REQUIRED	AS REQUIRED
525A	WATER	ASPO0	ASPO0	AS REQUIRED	AS REQUIRED
525B	WATER	ASPO0	ASPO0	AS REQUIRED	AS REQUIRED
526A	WATER	ASPO0	ASPO0	AS REQUIRED	AS REQUIRED
527A	WATER	ASPO0	ASPO0	AS REQUIRED	AS REQUIRED
528A	WATER	ASPO0	ASPO0	AS REQUIRED	AS REQUIRED
529A	WATER	ASPO0	ASPO0	AS REQUIRED	AS REQUIRED

NYSDEC-7

Date: 04/15/2002  
Time: 18:43:14

Dilution Log w/Code Information  
For Job A02-2442

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
A4622B	A2244201	Potassium - Total	10.00	002
A4622B	A2244201	Sodium - Total	10.00	002
A4623A	A2244202	Potassium - Total	10.00	002
A4623A	A2244202	Sodium - Total	10.00	002
A4623B	A2244203	EPA VOA	10.00	003
A4623B	A2244203	Potassium - Total	10.00	002
A4623B	A2244203	Sodium - Total	10.00	002
A4624A	A2244204	Potassium - Total	10.00	002
A4624A	A2244204	Sodium - Total	10.00	002
A4624B	A2244205	EPA VOA	10.00	003
A4624B	A2244205	Potassium - Total	10.00	002
A4624B	A2244205	Sodium - Total	10.00	002
A4625A	A2244206	Potassium - Total	10.00	002
A4625A	A2244206	Sodium - Total	10.00	002
A4625B	A2244207	EPA VOA	10.00	003
A4625B	A2244207	Calcium - Total	10.00	008
A4626A	A2244208	Potassium - Total	10.00	002
A4626A	A2244208	Sodium - Total	10.00	002
A4628A	A2244210	EPA VOA	10.00	003
A4628A	A2244210	Calcium - Total	10.00	008
A4628A	A2244210	Potassium - Total	100.00	002
A4628A	A2244210	Sodium - Total	100.00	008

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - non-target compounds (TICS) exceeded 5X the total response of one of the Internal Standards
- 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 COMMENT PAGE

000014

### 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 a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. 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.
- K Indicates the post digestion spike recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- M Indicates duplicate injection results exceeded quality control limits.
- W Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 60% of spike absorbance.
- 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 analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

0000

Client

A4622B

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECN Case No.: SF901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244201

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8476.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15

% Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 03/21/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl chloride		10	U
75-00-3	Chloroethane		1	J
75-09-2	Methylene chloride		10	U
67-64-1	Acetone		1	BJ
75-15-0	Carbon disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
124-48-1	Dibromochloromethane		10	U
79-00-5	1,1,2-Trichloroethane		10	U
71-43-2	Benzene		8	J
10061-02-6	trans-1,3-Dichloropropene		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-88-3	Toluene		1	J
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-90-7	Chlorobenzene		13	
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene, Total		2	J
75-71-8	Dichlorodifluoromethane		10	U
75-69-4	Trichlorofluoromethane		10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

000016

Client No.

A4622B

Name: STL Buffalo Contract: C004154

Code: REQNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244201

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8476.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002

Disturbance: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 03/21/2002

Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

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

76-13-1-----	1,1,2-Trichloro-1,2,2-Trifluoroethane	10	U
156-60-5-----	trans-1,2-Dichloroethene	10	U
1634-04-4-----	Methyl tert-butyl ether	10	U
156-59-2-----	cis-1,2-Dichloroethene	10	U
110-82-7-----	Cyclohexane	10	U
108-87-2-----	Methylcyclohexane	10	U
106-93-4-----	1,2-Dibromoethane (Ethylene dibromide)	10	U
98-82-8-----	Isopropylbenzene	2	J
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	5	J
95-50-1-----	1,2-Dichlorobenzene	10	U
96-12-8-----	1,2-Dibromo-3-chloropropane	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
79-20-9-----	Methyl Acetate	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

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Clie

A4622B

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECNY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix: (soil/water) WATER

Lab Sample ID: A2244201

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P8476.RR

Level: (low/med) LOW

Date Samp/Recv: 03/15/2002 03

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 03/21/2002

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_

Number TICs found: 7

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

CAS NO.	Compound Name	RT	Est. Conc.	Q
1. 75-45-6	CHLORODIFLUOROMETHANE	4.48	19	JN
2. 593-70-4	CHLOROFLUOROMETHANE	5.03	10	JN
3.	TRIMETHYLBENZENE ISOMER	17.76	34	J
4.	UNKNOWN	18.77	8	J
5.	ALKYLBENZENE DERIVATIVE	19.37	6	J
6.	TETRAMETHYLBENZENE ISOMER	20.07	7	J
7.	TETRAMETHYLBENZENE ISOMER	20.74	8	J



NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

000018

Client No.

A4623A

Name: STL Buffalo Contract: C004154  
 Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244202  
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8457.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 03/20/2002  
 Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00  
 Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

CAS NO.	COMPOUND	(ug/L or ug/Kg)	<u>UG/L</u>	<u>Q</u>
74-87-3	-----Chloromethane	10		U
74-83-9	-----Bromomethane	10		U
75-01-4	-----Vinyl chloride	10		U
75-00-3	-----Chloroethane	10		U
75-09-2	-----Methylene chloride	10		U
67-64-1	-----Acetone	4		J
75-15-0	-----Carbon disulfide	3		J
75-35-4	-----1,1-Dichloroethene	10		U
75-34-3	-----1,1-Dichloroethane	10		U
67-66-3	-----Chloroform	10		U
107-06-2	-----1,2-Dichloroethane	10		U
78-93-3	-----2-Butanone	1		J
71-55-6	-----1,1,1-Trichloroethane	10		U
56-23-5	-----Carbon tetrachloride	10		U
75-27-4	-----Bromodichloromethane	10		U
78-87-5	-----1,2-Dichloropropane	10		U
10061-01-5	-----cis-1,3-Dichloropropene	10		U
79-01-6	-----Trichloroethene	10		U
124-48-1	-----Dibromochloromethane	10		U
79-00-5	-----1,1,2-Trichloroethane	10		U
71-43-2	-----Benzene	1		J
10061-02-6	-----trans-1,3-Dichloropropene	10		U
75-25-2	-----Bromoform	10		U
108-10-1	-----4-Methyl-2-pentanone	10		U
591-78-6	-----2-Hexanone	10		U
127-18-4	-----Tetrachloroethene	10		U
108-88-3	-----Toluene	4		J
79-34-5	-----1,1,2,2-Tetrachloroethane	10		U
108-90-7	-----Chlorobenzene	10		U
100-41-4	-----Ethylbenzene	10		U
100-42-5	-----Styrene	10		U
1330-20-7	-----Xylene, Total	6		J
75-71-8	-----Dichlorodifluoromethane	10		U
75-69-4	-----Trichlorofluoromethane	10		U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

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Cl1

A4623A

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244202

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8457.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002

% Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 03/20/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
76-13-1-----	1,1,2-Trichloro-1,2,2-Trifluoroethane		10	U
156-60-5-----	trans-1,2-Dichloroethene		10	U
1634-04-4-----	Methyl tert-butyl ether		10	U
156-59-2-----	cis-1,2-Dichloroethene		10	U
110-82-7-----	Cyclohexane		17	
108-87-2-----	Methylcyclohexane		16	
106-93-4-----	1,2-Dibromoethane (Ethylene dibromide)		10	U
98-82-8-----	Isopropylbenzene		10	U
541-73-1-----	1,3-Dichlorobenzene		10	U
106-46-7-----	1,4-Dichlorobenzene		10	U
95-50-1-----	1,2-Dichlorobenzene		10	U
96-12-8-----	1,2-Dibromo-3-chloropropane		10	U
120-82-1-----	1,2,4-Trichlorobenzene		10	U
79-20-9-----	Methyl Acetate		10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000020

Client No.

A4623A

Name: STL Buffalo Contract: C004154  
 Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244202  
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8457.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Moisture: not dec. \_\_\_\_\_ Date Analyzed: 03/20/2002  
 Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00  
 Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 9

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

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	4.38	210	J
2.	UNKNOWN	4.79	75	J
3.	UNKNOWN	5.08	110	J
4.	ALKYL SUBSTITUTED COMPOUND	6.05	37	J
5. 109-66-0	PENTANE	6.47	29	JN
6.	ALKYL SUBSTITUTED COMPOUND	7.83	8	J
7. 110-54-3	HEXANE	8.51	8	JN
8.	UNKNOWN	9.37	14	J
9.	UNKNOWN	11.09	5	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASPOO VOLATILES - W  
 ANALYSIS DATA SHEET

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Clie

A4623B

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECNY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix: (soil/water) WATER

Lab Sample ID: A2244203

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P8465.RR

Level: (low/med) LOW

Date Samp/Recv: 03/15/2002 03/15

% Moisture: not dec. \_\_\_\_\_ Heated Purge: N

Date Analyzed: 03/20/2002

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 10.00

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	-----Chloromethane		100	U
74-83-9	-----Bromomethane		100	U
75-01-4	-----Vinyl chloride		100	U
75-00-3	-----Chloroethane		100	U
75-09-2	-----Methylene chloride		100	U
67-64-1	-----Acetone		100	U
75-15-0	-----Carbon disulfide		100	U
75-35-4	-----1,1-Dichloroethene		100	U
75-34-3	-----1,1-Dichloroethane		100	U
67-66-3	-----Chloroform		100	U
107-06-2	-----1,2-Dichloroethane		100	U
78-93-3	----2-Butanone		100	U
71-55-6	-----1,1,1-Trichloroethane		100	U
56-23-5	-----Carbon tetrachloride		100	U
75-27-4	-----Bromodichloromethane		100	U
78-87-5	-----1,2-Dichloropropane		100	U
10061-01-5	----cis-1,3-Dichloropropene		100	U
79-01-6	-----Trichloroethene		100	U
124-48-1	-----Dibromochloromethane		100	U
79-00-5	-----1,1,2-Trichloroethane		100	U
71-43-2	-----Benzene		17	J
10061-02-6	----trans-1,3-Dichloropropene		100	U
75-25-2	-----Bromoform		100	U
108-10-1	-----4-Methyl-2-pentanone		100	U
591-78-6	-----2-Hexanone		100	U
127-18-4	-----Tetrachloroethene		100	U
108-88-3	-----Toluene		12	J
79-34-5	-----1,1,2,2-Tetrachloroethane		100	U
108-90-7	-----Chlorobenzene		52	J
100-41-4	-----Ethylbenzene		100	U
100-42-5	-----Styrene		100	U
1330-20-7	----Xylene, Total		100	U
75-71-8	-----Dichlorodifluoromethane		100	U
75-69-4	-----Trichlorofluoromethane		100	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

000022

Client No.

A4623B

Name: STL Buffalo Contract: C004154

Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244203

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8465.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002

Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 03/20/2002

Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.00

Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

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

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
76-13-1-----	1,1,2-Trichloro-1,2,2-Trifluoroethane	100		U
156-60-5-----	trans-1,2-Dichloroethene	100		U
1634-04-4-----	Methyl tert-butyl ether	100		U
156-59-2-----	cis-1,2-Dichloroethene	100		U
110-82-7-----	Cyclohexane	100		U
108-87-2-----	Methylcyclohexane	100		U
106-93-4-----	1,2-Dibromoethane (Ethylene dibromide)	100		U
98-82-8-----	Isopropylbenzene	100		U
541-73-1-----	1,3-Dichlorobenzene	100		U
106-46-7-----	1,4-Dichlorobenzene	100		U
95-50-1-----	1,2-Dichlorobenzene	100		U
96-12-8-----	1,2-Dibromo-3-chloropropane	100		U
120-82-1-----	1,2,4-Trichlorobenzene	100		U
79-20-9-----	Methyl Acetate	100		U

NYS DEC  
NYS DEC ASP CONTRACT #C004154 - REGION 9  
NYSDEC - EPA ASP00 VOLATILES - W  
TENTATIVELY IDENTIFIED COMPOUNDS

0000

Cl

A4623B

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECONY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix: (soil/water) WATER

Lab Sample ID: A2244203

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P8465.RR

Level: (low/med) LOW

Date Samp/Recv: 03/15/2002 03/15/2002

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 03/20/2002

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 10.00

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_

Number TICs found: 1

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

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNSATURATED HYDROCARBON	21.90	60	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

000024

Client No.

A4624A

Name: STL Buffalo Contract: C004154  
 Code: RECN Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244204  
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8458.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 03/20/2002  
 Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00  
 Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

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

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	10		U
74-83-9	Bromomethane	10		U
75-01-4	Vinyl chloride	10		U
75-00-3	Chloroethane	4		J
75-09-2	Methylene chloride	10		U
67-64-1	Acetone	10		U
75-15-0	Carbon disulfide	10		U
75-35-4	1,1-Dichloroethene	10		U
75-34-3	1,1-Dichloroethane	10		U
67-66-3	Chloroform	10		U
107-06-2	1,2-Dichloroethane	10		U
78-93-3	2-Butanone	10		U
71-55-6	1,1,1-Trichloroethane	10		U
56-23-5	Carbon tetrachloride	10		U
75-27-4	Bromodichloromethane	10		U
78-87-5	1,2-Dichloropropane	10		U
10061-01-5	cis-1,3-Dichloropropene	10		U
79-01-6	Trichloroethene	10		U
124-48-1	Dibromochloromethane	10		U
79-00-5	1,1,2-Trichloroethane	10		U
71-43-2	Benzene	10		U
10061-02-6	trans-1,3-Dichloropropene	10		U
75-25-2	Bromoform	10		U
108-10-1	4-Methyl-2-pentanone	10		U
591-78-6	2-Hexanone	10		U
127-18-4	Tetrachloroethene	10		U
108-88-3	Toluene	10		U
79-34-5	1,1,2,2-Tetrachloroethane	10		U
108-90-7	Chlorobenzene	10		U
100-41-4	Ethylbenzene	10		U
100-42-5	Styrene	10		U
1330-20-7	Xylene, Total	10		U
75-71-8	Dichlorodifluoromethane	10		U
75-69-4	Trichlorofluoromethane	10		U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

00002

Client

A4624A

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECONY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix: (soil/water) WATER

Lab Sample ID: A2244204

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P8458.RR

Level: (low/med) LOW

Date Samp/Recv: 03/15/2002 03/15

% Moisture: not dec. \_\_\_\_\_ Heated Purge: N

Date Analyzed: 03/20/2002

GC Column: DB-624 ID: 0.25 (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
76-13-1-----	1,1,2-Trichloro-1,2,2-Trifluoroethane		10	U
156-60-5-----	trans-1,2-Dichloroethene		10	U
1634-04-4-----	Methyl tert-butyl ether		10	U
156-59-2-----	cis-1,2-Dichloroethene		10	U
110-82-7-----	Cyclohexane		74	
108-87-2-----	Methylcyclohexane		53	
106-93-4-----	1,2-Dibromoethane (Ethylene dibromide)		10	U
98-82-8-----	Isopropylbenzene		10	U
541-73-1-----	1,3-Dichlorobenzene		10	U
106-46-7-----	1,4-Dichlorobenzene		10	U
95-50-1-----	1,2-Dichlorobenzene		10	U
96-12-8-----	1,2-Dibromo-3-chloropropane		10	U
120-82-1-----	1,2,4-Trichlorobenzene		10	U
79-20-9-----	Methyl Acetate		10	U



NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000026

Client No.

A4624A

Site Name: STL Buffalo

Contract: C004154

Code: REOVY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix: (soil/water) WATER

Lab Sample ID: A2244204

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P8458.RR

Level: (low/med) LOW

Date Samp/Recv: 03/15/2002 03/15/2002

Moisture: not dec. \_\_\_\_\_

Date Analyzed: 03/20/2002

Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Injection Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 9

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	4.37	3900	J
2.	UNKNOWN	4.79	1900	J
3.	UNKNOWN	5.08	2200	J
4.	ALKYL SUBSTITUTED COMPOUND	6.05	600	J
5. 109-66-0	PENTANE	6.47	630	JN
6. 107-83-5	2-METHYLPENTANE	7.83	100	JN
7.	UNKNOWN	8.17	55	J
8. 110-54-3	HEXANE	8.51	110	JN
9.	CYCLOALKANE DERIVATIVE	9.37	120	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

0000  
 Client

A4624B

Lab Name: STL Buffalo Contract: C004154

Lab Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244205

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8466.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15

% Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 03/20/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		100	U
74-83-9	Bromomethane		100	U
75-01-4	Vinyl chloride		100	U
75-00-3	Chloroethane		40	J
75-09-2	Methylene chloride		100	U
67-64-1	Acetone		10	J
75-15-0	Carbon disulfide		100	U
75-35-4	1,1-Dichloroethene		100	U
75-34-3	1,1-Dichloroethane		100	U
67-66-3	Chloroform		100	U
107-06-2	1,2-Dichloroethane		100	U
78-93-3	2-Butanone		100	U
71-55-6	1,1,1-Trichloroethane		100	U
56-23-5	Carbon tetrachloride		100	U
75-27-4	Bromodichloromethane		100	U
78-87-5	1,2-Dichloropropane		100	U
10061-01-5	cis-1,3-Dichloropropene		100	U
79-01-6	Trichloroethene		100	U
124-48-1	Dibromochloromethane		100	U
79-00-5	1,1,2-Trichloroethane		100	U
71-43-2	Benzene		20	J
10061-02-6	trans-1,3-Dichloropropene		100	U
75-25-2	Bromoform		100	U
108-10-1	4-Methyl-2-pentanone		100	U
591-78-6	2-Hexanone		100	U
127-18-4	Tetrachloroethene		100	U
108-88-3	Toluene		100	U
79-34-5	1,1,2,2-Tetrachloroethane		100	U
108-90-7	Chlorobenzene		68	J
100-41-4	Ethylbenzene		100	U
100-42-5	Styrene		100	U
1330-20-7	Xylene, Total		100	U
75-71-8	Dichlorodifluoromethane		100	U
75-69-4	Trichlorofluoromethane		100	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASPOO VOLATILES - W  
 ANALYSIS DATA SHEET

000028

Client No.

A4624B

Name: SIL Buffalo Contract: C004154  
 Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244205  
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8466.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 03/20/2002  
 Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.00  
 Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
76-13-1-----	1,1,2-Trichloro-1,2,2-Trifluoroethane	100		U
156-60-5-----	trans-1,2-Dichloroethene	100		U
1634-04-4-----	Methyl tert-butyl ether	100		U
156-59-2-----	cis-1,2-Dichloroethene	100		U
110-82-7-----	Cyclohexane	100		U
108-87-2-----	Methylcyclohexane	100		U
106-93-4-----	1,2-Dibromoethane (Ethylene dibromide)	100		U
98-82-8-----	Isopropylbenzene	100		U
541-73-1-----	1,3-Dichlorobenzene	100		U
106-46-7-----	1,4-Dichlorobenzene	100		U
95-50-1-----	1,2-Dichlorobenzene	100		U
96-12-8-----	1,2-Dibromo-3-chloropropane	100		U
120-82-1-----	1,2,4-Trichlorobenzene	100		U
79-20-9-----	Methyl Acetate	100		U

NYS DEC  
NYS DEC ASP CONTRACT #C004154 - REGION 9  
NYSDEC - EPA ASPOO VOLATILES - W  
TENTATIVELY IDENTIFIED COMPOUNDS

00002

Clier

A4624B

Lab Name: STL Buffalo

Contract: C004154

Lab Code: REONY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix: (soil/water) WATER

Lab Sample ID: A2244205

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P8466.RR

Level: (low/med) LOW

Date Samp/Recv: 03/15/2002 03/15/2002

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 03/20/2002

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 10.00

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 1

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

CAS NO.	Compound Name	RT	Est. Conc.	Q
1. 109-99-9	TETRAHYDROFURAN	9.86	100	JN

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASPOO VOLATILES - W  
 ANALYSIS DATA SHEET

000030

Client No.

A4625A

Name: STL Buffalo

Contract: C004154

Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER

Lab Sample ID: A2244206

Concentration: (wt/vol) 5.00 (g/mL) ML

Lab File ID: P8459.RR

Level: (low/med) LOW

Date Samp/Recv: 03/15/2002 03/15/2002

Preparation: not dec. \_\_\_\_\_ Heated Purge: N

Date Analyzed: 03/20/2002

Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	-----Chloromethane		10	U
74-83-9	-----Bromomethane		10	U
75-01-4	-----Vinyl chloride		10	U
75-00-3	-----Chloroethane		4	J
75-09-2	-----Methylene chloride		10	U
67-64-1	-----Acetone		8	J
75-15-0	-----Carbon disulfide		10	U
75-35-4	-----1,1-Dichloroethene		10	U
75-34-3	-----1,1-Dichloroethane		10	U
67-66-3	-----Chloroform		10	U
107-06-2	-----1,2-Dichloroethane		10	U
78-93-3	-----2-Butanone		2	J
71-55-6	-----1,1,1-Trichloroethane		10	U
56-23-5	-----Carbon tetrachloride		10	U
75-27-4	-----Bromodichloromethane		10	U
78-87-5	-----1,2-Dichloropropane		10	U
10061-01-5	----cis-1,3-Dichloropropene		10	U
79-01-6	-----Trichloroethene		10	U
124-48-1	-----Dibromochloromethane		10	U
79-00-5	-----1,1,2-Trichloroethane		10	U
71-43-2	-----Benzene		1	J
10061-02-6	----trans-1,3-Dichloropropene		10	U
75-25-2	-----Bromoform		10	U
108-10-1	-----4-Methyl-2-pentanone		10	U
591-78-6	-----2-Hexanone		10	U
127-18-4	-----Tetrachloroethene		10	U
108-88-3	-----Toluene		2	J
79-34-5	-----1,1,2,2-Tetrachloroethane		10	U
108-90-7	-----Chlorobenzene		10	U
100-41-4	-----Ethylbenzene		10	U
100-42-5	-----Styrene		10	U
1330-20-7	-----Xylene, Total		1	J
75-71-8	-----Dichlorodifluoromethane		10	U
75-69-4	-----Trichlorofluoromethane		10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

00003

Client

A4625A

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECNY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix: (soil/water) WATER

Lab Sample ID: A2244206

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P8459.RR

Level: (low/med) LOW

Date Samp/Recv: 03/15/2002 03/15/2002

% Moisture: not dec. \_\_\_\_\_ Heated Purge: N

Date Analyzed: 03/20/2002

GC Column: DB-624 ID: 0.25 (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
76-13-1-----	1,1,2-Trichloro-1,2,2-Trifluoroethane		10	U
156-60-5-----	trans-1,2-Dichloroethene		10	U
1634-04-4-----	Methyl tert-butyl ether		10	U
156-59-2-----	cis-1,2-Dichloroethene		10	U
110-82-7-----	Cyclohexane		40	
108-87-2-----	Methylcyclohexane		20	
106-93-4-----	1,2-Dibromoethane (Ethylene dibromide)		10	U
98-82-8-----	Isopropylbenzene		10	U
541-73-1-----	1,3-Dichlorobenzene		10	U
106-46-7-----	1,4-Dichlorobenzene		10	U
95-50-1-----	1,2-Dichlorobenzene		10	U
96-12-8-----	1,2-Dibromo-3-chloropropane		10	U
120-82-1-----	1,2,4-Trichlorobenzene		10	U
79-20-9-----	Methyl Acetate		10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000032

Client No.

A4625A

Name: STL Buffalo Contract: C004154

Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244206

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8459.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 03/20/2002

Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number of TICs found: 9 CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	4.38	1800	J
2. 75-45-6	CHLORODIFLUOROMETHANE	4.48	20	JN
3. 75-28-5	ISOBUTANE	4.79	410	JN
4.	UNKNOWN	5.08	640	J
5.	UNKNOWN	6.05	140	J
6. 109-66-0	PENTANE	6.47	140	JN
7.	ALKYL SUBSTITUTED COMPOUND	7.83	22	J
8. 110-54-3	HEXANE	8.51	20	JN
9.	UNKNOWN	9.37	41	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

000030

Client

A4625B

Lab Name: SIL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244207

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8477.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2

% Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 03/21/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		100	U
74-83-9	Bromomethane		100	U
75-01-4	Vinyl chloride		100	U
75-00-3	Chloroethane		100	U
75-09-2	Methylene chloride		100	U
67-64-1	Acetone		24	BJ
75-15-0	Carbon disulfide		12	J
75-35-4	1,1-Dichloroethene		100	U
75-34-3	1,1-Dichloroethane		100	U
67-66-3	Chloroform		100	U
107-06-2	1,2-Dichloroethane		100	U
78-93-3	2-Butanone		100	U
71-55-6	1,1,1-Trichloroethane		100	U
56-23-5	Carbon tetrachloride		100	U
75-27-4	Bromodichloromethane		100	U
78-87-5	1,2-Dichloropropane		100	U
10061-01-5	cis-1,3-Dichloropropene		100	U
79-01-6	Trichloroethene		100	U
124-48-1	Dibromochloromethane		100	U
79-00-5	1,1,2-Trichloroethane		100	U
71-43-2	Benzene		1000	
10061-02-6	trans-1,3-Dichloropropene		100	U
75-25-2	Bromoform		100	U
108-10-1	4-Methyl-2-pentanone		100	U
591-78-6	2-Hexanone		100	U
127-18-4	Tetrachloroethene		100	U
108-88-3	Toluene		300	
79-34-5	1,1,2,2-Tetrachloroethane		100	U
108-90-7	Chlorobenzene		13	J
100-41-4	Ethylbenzene		59	J
100-42-5	Styrene		100	U
1330-20-7	Xylene, Total		250	
75-71-8	Dichlorodifluoromethane		100	U
75-69-4	Trichlorofluoromethane		100	U



NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

000034

Client No.

A4625B

Name: STL Buffalo Contract: C004154

Code: RECNV Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

ix: (soil/water) WATER Lab Sample ID: A2244207

le wt/vol: 5.00 (g/mL) ML Lab File ID: P8477.RR

l: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002

isture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 03/21/2002

olumn: DB-624 ID: 0.25 (mm) Dilution Factor: 10.00

Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

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

76-13-1-----	1,1,2-Trichloro-1,2,2-Trifluoroethane	100	U
156-60-5-----	trans-1,2-Dichloroethene	100	U
1634-04-4-----	Methyl tert-butyl ether	100	U
156-59-2-----	cis-1,2-Dichloroethene	100	U
110-82-7-----	Cyclohexane	710	
108-87-2-----	Methylcyclohexane	230	
106-93-4-----	1,2-Dibromoethane (Ethylene dibromide)	100	U
98-82-8-----	Isopropylbenzene	100	U
541-73-1-----	1,3-Dichlorobenzene	100	U
106-46-7-----	1,4-Dichlorobenzene	100	U
95-50-1-----	1,2-Dichlorobenzene	100	U
96-12-8-----	1,2-Dibromo-3-chloropropane	100	U
120-82-1-----	1,2,4-Trichlorobenzene	100	U
79-20-9-----	Methyl Acetate	100	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000035

Client

A4625B

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244207

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8477.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/1

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 03/21/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 7

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

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	4.38	18000	J
2. 75-28-5	ISOBUTANE	4.79	3000	JN
3.	UNKNOWN	5.08	6300	J
4. 78-78-4	2-METHYLBUTANE	6.05	1100	JN
5. 109-66-0	PENTANE	6.47	840	JN
6. 287-92-3	CYCLOPENTANE	7.95	740	JN
7.	ALKYL CYCLOALKANE	9.37	820	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

000036

Client No.

AA626A

Name: STL Buffalo

Contract: C004154

Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER

Lab Sample ID: A2244208

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P8460.RR

Level: (low/med) LOW

Date Samp/Recv: 03/15/2002 03/15/2002

Heated Purge: not dec. \_\_\_\_\_ Heated Purge: N

Date Analyzed: 03/20/2002

Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
74-87-3	-----Chloromethane		10	U
74-83-9	-----Bromomethane		10	U
75-01-4	-----Vinyl chloride		10	U
75-00-3	-----Chloroethane		10	U
75-09-2	-----Methylene chloride		10	U
67-64-1	-----Acetone		1	J
75-15-0	-----Carbon disulfide		10	U
75-35-4	-----1,1-Dichloroethene		10	U
75-34-3	-----1,1-Dichloroethane		10	U
67-66-3	-----Chloroform		10	U
107-06-2	-----1,2-Dichloroethane		10	U
78-93-3	-----2-Butanone		10	U
71-55-6	-----1,1,1-Trichloroethane		10	U
56-23-5	-----Carbon tetrachloride		10	U
75-27-4	-----Bromodichloromethane		10	U
78-87-5	-----1,2-Dichloropropane		10	U
10061-01-5	----cis-1,3-Dichloropropene		10	U
79-01-6	-----Trichloroethene		10	U
124-48-1	-----Dibromochloromethane		10	U
79-00-5	-----1,1,2-Trichloroethane		10	U
71-43-2	-----Benzene		10	U
10061-02-6	----trans-1,3-Dichloropropene		10	U
75-25-2	-----Bromoform		10	U
108-10-1	-----4-Methyl-2-pentanone		10	U
591-78-6	-----2-Hexanone		10	U
127-18-4	-----Tetrachloroethene		10	U
108-88-3	-----Toluene		10	U
79-34-5	-----1,1,2,2-Tetrachloroethane		10	U
108-90-7	-----Chlorobenzene		10	U
100-41-4	-----Ethylbenzene		10	U
100-42-5	-----Styrene		10	U
1330-20-7	----Xylene, Total		10	U
75-71-8	-----Dichlorodifluoromethane		10	U
75-69-4	-----Trichlorofluoromethane		10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASPO0 VOLATILES - W  
 ANALYSIS DATA SHEET

000037

Client

A4626A

Lab Name: SIL Buffalo Contract: C004154

Lab Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244208

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8460.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15

% Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 03/20/2002

GC Column: DB-624 ID: 0.25 (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
76-13-1-----	1,1,2-Trichloro-1,2,2-Trifluoroethane		10	U
156-60-5-----	trans-1,2-Dichloroethene		10	U
1634-04-4-----	Methyl tert-butyl ether		10	U
156-59-2-----	cis-1,2-Dichloroethene		10	U
110-82-7-----	Cyclohexane		8	J
108-87-2-----	Methylcyclohexane		10	U
106-93-4-----	1,2-Dibromoethane (Ethylene dibromide)		10	U
98-82-8-----	Isopropylbenzene		10	U
541-73-1-----	1,3-Dichlorobenzene		10	U
106-46-7-----	1,4-Dichlorobenzene		10	U
95-50-1-----	1,2-Dichlorobenzene		10	U
96-12-8-----	1,2-Dibromo-3-chloropropane		10	U
120-82-1-----	1,2,4-Trichlorobenzene		10	U
79-20-9-----	Methyl Acetate		10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000038

Client No.

A4626A

Name: STL Buffalo Contract: C004154  
 Code: RECN Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244208  
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8460.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 03/20/2002

Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

Number TICs found: 5

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	4.38	130	J
2.	UNKNOWN	4.79	59	J
3.	UNKNOWN HYDROCARBON	5.08	19	J
4.	UNKNOWN	6.05	27	J
5.	UNSATURATED HYDROCARBON	7.96	5	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASPOO VOLATILES - W  
 ANALYSIS DATA SHEET

000039

Client

A4627A

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244209

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8461.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15

% Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 03/20/2002

GC Column: DB-624 ID: 0.25 (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
74-87-3	-----Chloromethane		10	U
74-83-9	-----Bromomethane		10	U
75-01-4	-----Vinyl chloride		10	U
75-00-3	-----Chloroethane		10	U
75-09-2	-----Methylene chloride		10	U
67-64-1	-----Acetone		10	U
75-15-0	-----Carbon disulfide		10	U
75-35-4	-----1,1-Dichloroethene		10	U
75-34-3	-----1,1-Dichloroethane		10	U
67-66-3	-----Chloroform		10	U
107-06-2	-----1,2-Dichloroethane		10	U
78-93-3	-----2-Butanone		10	U
71-55-6	-----1,1,1-Trichloroethane		10	U
56-23-5	-----Carbon tetrachloride		10	U
75-27-4	-----Bromodichloromethane		10	U
78-87-5	-----1,2-Dichloropropane		10	U
10061-01-5	----cis-1,3-Dichloropropene		10	U
79-01-6	-----Trichloroethene		10	U
124-48-1	-----Dibromochloromethane		10	U
79-00-5	-----1,1,2-Trichloroethane		10	U
71-43-2	-----Benzene		10	U
10061-02-6	----trans-1,3-Dichloropropene		10	U
75-25-2	-----Bromoform		10	U
108-10-1	-----4-Methyl-2-pentanone		10	U
591-78-6	-----2-Hexanone		10	U
127-18-4	-----Tetrachloroethene		10	U
108-88-3	-----Toluene		10	U
79-34-5	-----1,1,2,2-Tetrachloroethane		10	U
108-90-7	-----Chlorobenzene		2	J
100-41-4	-----Ethylbenzene		10	U
100-42-5	-----Styrene		10	U
1330-20-7	-----Xylene, Total		10	U
75-71-8	-----Dichlorodifluoromethane		10	U
75-69-4	-----Trichlorofluoromethane		10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

000040

Client No.

A4627A

Name: STL Buffalo Contract: C004154  
 Code: REQNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244209  
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8461.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Disturbance: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 03/20/2002  
 Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00  
 Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

CAS NO.	COMPOUND	UG/L	Q
76-13-1-----	1,1,2-Trichloro-1,2,2-Trifluoroethane	10	U
156-60-5-----	trans-1,2-Dichloroethene	10	U
1634-04-4-----	Methyl tert-butyl ether	10	U
156-59-2-----	cis-1,2-Dichloroethene	10	U
110-82-7-----	Cyclohexane	10	U
108-87-2-----	Methylcyclohexane	10	U
106-93-4-----	1,2-Dibromoethane (Ethylene dibromide)	10	U
98-82-8-----	Isopropylbenzene	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
96-12-8-----	1,2-Dibromo-3-chloropropane	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
79-20-9-----	Methyl Acetate	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000041

CL1

A4627A

Lab Name: STL Buffalo Contract: C004154  
 Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244209  
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8461.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 03/20/2002  
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_

Number TICs found: 2

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

CAS NO.	Compound Name	RT	Est. Conc.	Q
1. 74-98-6	PROPANE	4.38	6	JN
2.	CHLORO METHYLBENZENE ISOMER	17.15	22	J



NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

000042

Client No.

A4628A

Name: STL Buffalo Contract: C004154  
 Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244210  
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8478.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Disturbance: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 03/21/2002  
 Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.00  
 Inj. Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

CAS NO.	COMPOUND	UG/L	Q
74-87-3	Chloromethane	100	U
74-83-9	Bromomethane	100	U
75-01-4	Vinyl chloride	100	U
75-00-3	Chloroethane	18	J
75-09-2	Methylene chloride	100	U
67-64-1	Acetone	100	U
75-15-0	Carbon disulfide	100	U
75-35-4	1,1-Dichloroethene	100	U
75-34-3	1,1-Dichloroethane	100	U
67-66-3	Chloroform	100	U
107-06-2	1,2-Dichloroethane	100	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	100	U
56-23-5	Carbon tetrachloride	100	U
75-27-4	Bromodichloromethane	100	U
78-87-5	1,2-Dichloropropane	100	U
10061-01-5	cis-1,3-Dichloropropene	100	U
79-01-6	Trichloroethene	100	U
124-48-1	Dibromochloromethane	100	U
79-00-5	1,1,2-Trichloroethane	100	U
71-43-2	Benzene	100	U
10061-02-6	trans-1,3-Dichloropropene	100	U
75-25-2	Bromoform	100	U
108-10-1	4-Methyl-2-pentanone	100	U
591-78-6	2-Hexanone	100	U
127-18-4	Tetrachloroethene	100	U
108-88-3	Toluene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U
108-90-7	Chlorobenzene	16	J
100-41-4	Ethylbenzene	100	U
100-42-5	Styrene	100	U
1330-20-7	Xylene, Total	24	J
75-71-8	Dichlorodifluoromethane	100	U
75-69-4	Trichlorofluoromethane	100	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

000043

Client

A4628A

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244210

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8478.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15

% Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 03/21/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane		100	U
156-60-5	trans-1,2-Dichloroethene		100	U
1634-04-4	Methyl tert-butyl ether		100	U
156-59-2	cis-1,2-Dichloroethene		100	U
110-82-7	Cyclohexane		100	U
108-87-2	Methylcyclohexane		100	U
106-93-4	1,2-Dibromoethane (Ethylene dibromide)		100	U
98-82-8	Isopropylbenzene		100	U
541-73-1	1,3-Dichlorobenzene		100	U
106-46-7	1,4-Dichlorobenzene		100	U
95-50-1	1,2-Dichlorobenzene		100	U
96-12-8	1,2-Dibromo-3-chloropropane		100	U
120-82-1	1,2,4-Trichlorobenzene		100	U
79-20-9	Methyl Acetate		100	U

NYS DEC  
NYS DEC ASP CONTRACT #C004154 - REGION 9  
NYSDEC - EPA ASP00 VOLATILES - W  
TENTATIVELY IDENTIFIED COMPOUNDS

000044

Client No.

A4628A

Name: STL Buffalo Contract: C004154  
Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315  
Matrix: (soil/water) WATER Lab Sample ID: A2244210  
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8478.RR  
Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
Moisture: not dec. \_\_\_\_\_ Date Analyzed: 03/21/2002  
Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.00  
Injection Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)  
Number TICs found: 0 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASPOO VOLATILES - W  
 ANALYSIS DATA SHEET

000045

cli

A4629A

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244211

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8462.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/02

% Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 03/20/2002

GC Column: DB-624 ID: 0.25 (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
74-87-3	-----Chloromethane		10	U
74-83-9	-----Bromomethane		10	U
75-01-4	-----Vinyl chloride		10	U
75-00-3	-----Chloroethane		10	U
75-09-2	-----Methylene chloride		10	U
67-64-1	-----Acetone		2	J
75-15-0	-----Carbon disulfide		10	U
75-35-4	-----1,1-Dichloroethene		10	U
75-34-3	-----1,1-Dichloroethane		10	U
67-66-3	-----Chloroform		10	U
107-06-2	-----1,2-Dichloroethane		10	U
78-93-3	-----2-Butanone		10	U
71-55-6	-----1,1,1-Trichloroethane		10	U
56-23-5	-----Carbon tetrachloride		10	U
75-27-4	-----Bromodichloromethane		10	U
78-87-5	-----1,2-Dichloropropane		10	U
10061-01-5	----cis-1,3-Dichloropropene		10	U
79-01-6	-----Trichloroethene		10	U
124-48-1	-----Dibromochloromethane		10	U
79-00-5	-----1,1,2-Trichloroethane		10	U
71-43-2	-----Benzene		10	U
10061-02-6	----trans-1,3-Dichloropropene		10	U
75-25-2	-----Bromoform		10	U
108-10-1	-----4-Methyl-2-pentanone		10	U
591-78-6	-----2-Hexanone		10	U
127-18-4	-----Tetrachloroethene		10	U
108-88-3	-----Toluene		10	U
79-34-5	-----1,1,2,2-Tetrachloroethane		10	U
108-90-7	-----Chlorobenzene		10	U
100-41-4	-----Ethylbenzene		10	U
100-42-5	-----Styrene		10	U
1330-20-7	-----Xylene, Total		10	U
75-71-8	-----Dichlorodifluoromethane		10	U
75-69-4	-----Trichlorofluoromethane		10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

000046

Client No.

A4629A

Name: STL Buffalo Contract: C004154  
 Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244211

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8462.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002

Disturbance: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 03/20/2002

Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

CAS NO.	COMPOUND	UG/L	Q
76-13-1-----	1,1,2-Trichloro-1,2,2-Trifluoroethane	10	U
156-60-5-----	trans-1,2-Dichloroethene	10	U
1634-04-4----	Methyl tert-butyl ether	10	U
156-59-2-----	cis-1,2-Dichloroethene	10	U
110-82-7-----	Cyclohexane	1	J
108-87-2-----	Methylcyclohexane	1	J
106-93-4-----	1,2-Dibromoethane (Ethylene dibromide)	10	U
98-82-8-----	Isopropylbenzene	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
96-12-8-----	1,2-Dibromo-3-chloropropane	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
79-20-9-----	Methyl Acetate	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000047

cli

A4629A

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244211

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8462.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 03/20/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_

Number TICs found: 5 CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN HYDROCARBON	4.38	69	J
2.	UNKNOWN	4.79	20	J
3.	UNKNOWN	5.08	34	J
4.	UNKNOWN	6.05	8	J
5.	UNKNOWN HYDROCARBON	6.47	9	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

000048

Client No.

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Name: STL Buffalo Contract: C004154  
 Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: Q315

Matrix: (soil/water) WATER Lab Sample ID: A2244212  
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8452.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 03/20/2002  
 Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00  
 Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

CAS NO.	COMPOUND	UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	1	J
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	2	J
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene, Total	10	U
75-71-8	Dichlorodifluoromethane	10	U
75-69-4	Trichlorofluoromethane	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

000049

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TRIP BLANK

Lab Name: STL Buffalo

Contract: C004154

Lab Code: REONY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix: (soil/water) WATER

Lab Sample ID: A2244212

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: P8452.RR

Level: (low/med) LOW

Date Samp/Recv: 03/15/2002 03/15/2002

% Moisture: not dec. \_\_\_\_\_ Heated Purge: N

Date Analyzed: 03/20/2002

GC Column: DB-624 ID: 0.25 (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
76-13-1-----	1,1,2-Trichloro-1,2,2-Trifluoroethane		10	U
156-60-5-----	trans-1,2-Dichloroethene		10	U
1634-04-4-----	Methyl tert-butyl ether		10	U
156-59-2-----	cis-1,2-Dichloroethene		10	U
110-82-7-----	Cyclohexane		10	U
108-87-2-----	Methylcyclohexane		10	U
106-93-4-----	1,2-Dibromoethane (Ethylene dibromide)		10	U
98-82-8-----	Isopropylbenzene		10	U
541-73-1-----	1,3-Dichlorobenzene		10	U
106-46-7-----	1,4-Dichlorobenzene		10	U
95-50-1-----	1,2-Dichlorobenzene		10	U
96-12-8-----	1,2-Dibromo-3-chloropropane		10	U
120-82-1-----	1,2,4-Trichlorobenzene		10	U
79-20-9-----	Methyl Acetate		10	U



NYS DEC  
NYS DEC ASP CONTRACT #C004154 - REGION 9  
NYSDEC - EPA ASP00 VOLATILES - W  
TENTATIVELY IDENTIFIED COMPOUNDS

000050

Client No.

TRIP BLANK

Name: STL Buffalo Contract: C004154  
Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315  
Matrix: (soil/water) WATER Lab Sample ID: A2244212  
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P8452.RR  
Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
Moisture: not dec. \_\_\_\_\_ Date Analyzed: 03/20/2002  
Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00  
Injection Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)  
Number TICs found: 0 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

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Cl

A4622B

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244201

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: Z50909.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/1

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	UG/L	Q
98-86-2	Acetophenone	10	U
1912-24-9	Atrazine	10	U
100-52-7	Benzaldehyde	10	U
105-60-2	Caprolactam	10	U
92-52-4	Biphenyl	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
621-64-7	N-Nitroso-di-N-propylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
91-94-1	3,3'-Dichlorobenzidine	10	U
91-58-7	2-Chloronaphthalene	10	U
132-64-9	Dibenzofuran	0.3	J
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	2	J
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
67-72-1	Hexachloroethane	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-57-6	2-Methylnaphthalene	0.8	J
120-82-1	1,2,4-Trichlorobenzene	10	U
106-47-8	4-Chloroaniline	10	U
85-68-7	Butylbenzylphthalate	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
84-66-2	Diethylphthalate	1	J
131-11-3	Dimethylphthalate	10	U
84-74-2	di-n-Butylphthalate	10	U
117-84-0	di-n-Octylphthalate	0.7	J
86-74-8	Carbazole	1	J
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASPOO - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000052

Client No.

A4622B

Name: STL Buffalo Contract: C004154  
 Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

ix: (soil/water) WATER Lab Sample ID: A2244201  
 le wt/vol: 1000.0 (g/mL) ML Lab File ID: Z50909.RR  
 l: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 isture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002  
 oncentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002  
 ction Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
78-59-1-----	Isophorone		10	U
98-95-3-----	Nitrobenzene		10	U
208-96-8-----	Acenaphthylene		10	U
83-32-9-----	Acenaphthene		0.6	J
120-12-7-----	Anthracene		10	U
56-55-3-----	Benzo (a) anthracene		10	U
50-32-8-----	Benzo (a) pyrene		10	U
205-99-2-----	Benzo (b) fluoranthene		10	U
191-24-2-----	Benzo (g, h, i) perylene		10	U
207-08-9-----	Benzo (k) fluoranthene		10	U
218-01-9-----	Chrysene		10	U
53-70-3-----	Dibenzo (a, h) anthracene		10	U
206-44-0-----	Fluoranthene		10	U
86-73-7-----	Fluorene		0.6	J
193-39-5-----	Indeno (1, 2, 3-c, d) pyrene		10	U
91-20-3-----	Naphthalene		10	U
85-01-8-----	Phenanthrene		1	J
129-00-0-----	Pyrene		10	U
59-50-7-----	4-Chloro-3-methylphenol		10	U
95-57-8-----	2-Chlorophenol		10	U
120-83-2-----	2,4-Dichlorophenol		10	U
105-67-9-----	2,4-Dimethylphenol		10	U
51-28-5-----	2,4-Dinitrophenol		25	U
534-52-1-----	2-Methyl-4,6-dinitrophenol		25	U
95-48-7-----	2-Methylphenol		10	U
106-44-5-----	4-Methylphenol		10	U
88-75-5-----	2-Nitrophenol		10	U
100-02-7-----	4-Nitrophenol		25	U
87-86-5-----	Pentachlorophenol		25	U
108-95-2-----	Phenol		10	U
95-95-4-----	2,4,5-Trichlorophenol		25	U
88-06-2-----	2,4,6-Trichlorophenol		10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000053

cli

M622B

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244201

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: Z50909.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/1

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/Kg)	UG/L	Q
111-44-4	-----bis (2-Chloroethyl) ether		10	U
108-60-1	-----bis (2-Chloroisopropyl) ether		10	U
111-91-1	-----bis (2-Chloroethoxy) methane		10	U
101-55-3	-----4-Bromophenylphenylether		10	U
7005-72-3	-----4-Chlorophenylphenylether		10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000054

Client No.

A4622B

Name: STL Buffalo Contract: C004154  
 Code: RECN Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244201  
 Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: Z50909.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Disturbance: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0

Number TICs found: 10

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

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	TRIMETHYLBENZENE ISOMER	5.25	9	J
2.	UNKNOWN	5.76	6	J
3.	UNKNOWN	8.01	4	J
4. 85-44-9	PHIHALIC ANHYDRIDE	10.46	2	JN
5.	UNKNOWN BENZENE DER.	14.71	6	J
6. 934-34-9	2 (3H) BENZOTHAZOLONE	15.03	11	JN
7. 80-39-7	N-ETHYL-4-METHYL-BENZENESULF	15.36	3	JN
8.	SULFER	17.76	8	J
9.	UNKNOWN	18.86	5	J
10.	UNKNOWN	19.55	3	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000055

Client

A4623A

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244202

Sample wt/vol: 950.00 (g/mL) ML Lab File ID: Z50910.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002

Injection Volume: 2.00 (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
98-86-2	Acetophenone		10	U
1912-24-9	Atrazine		10	U
100-52-7	Benzaldehyde		10	U
105-60-2	Caprolactam		10	U
92-52-4	Biphenyl		10	U
86-30-6	N-Nitrosodiphenylamine		10	U
621-64-7	N-Nitroso-di-N-propylamine		10	U
88-74-4	2-Nitroaniline		26	U
99-09-2	3-Nitroaniline		26	U
100-01-6	4-Nitroaniline		26	U
91-94-1	3,3'-Dichlorobenzidine		10	U
91-58-7	2-Chloronaphthalene		10	U
132-64-9	Dibenzofuran		10	U
95-50-1	1,2-Dichlorobenzene		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
118-74-1	Hexachlorobenzene		10	U
87-68-3	Hexachlorobutadiene		10	U
67-72-1	Hexachloroethane		10	U
77-47-4	Hexachlorocyclopentadiene		10	U
91-57-6	2-Methylnaphthalene		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U
106-47-8	4-Chloroaniline		10	U
85-68-7	Butylbenzylphthalate		10	U
117-81-7	bis(2-Ethylhexyl) phthalate		10	U
84-66-2	Diethylphthalate		10	U
131-11-3	Dimethylphthalate		10	U
84-74-2	di-n-Butylphthalate		10	U
117-84-0	di-n-Octylphthalate		10	U
86-74-8	Carbazole		10	U
121-14-2	2,4-Dinitrotoluene		10	U
606-20-2	2,6-Dinitrotoluene		10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

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Client No.

A4623A

Name: STL Buffalo Contract: C004154  
 Code: REQNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244202  
 Sample wt/vol: 950.00 (g/mL) ML Lab File ID: Z50910.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Disturbance: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	UG/L	Q
78-59-1	Isophorone	10	U
98-95-3	Nitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
50-32-8	Benzo(a)pyrene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
193-39-5	Indeno(1,2,3-c,d)pyrene	10	U
91-20-3	Naphthalene	10	U
85-01-8	Phenanthrene	10	U
129-00-0	Pyrene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
95-57-8	2-Chlorophenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
51-28-5	2,4-Dinitrophenol	26	U
534-52-1	2-Methyl-4,6-dinitrophenol	26	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	26	U
87-86-5	Pentachlorophenol	26	U
108-95-2	Phenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
88-06-2	2,4,6-Trichlorophenol	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000057

Client

A4623A

Lab Name: STL Buffalo Contract: C004154  
 Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244202  
 Sample wt/vol: 950.00 (g/mL) ML Lab File ID: Z50910.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15  
 % Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
111-44-4	bis(2-Chloroethyl) ether		10	U
108-60-1	bis(2-Chloroisopropyl) ether		10	U
111-91-1	bis(2-Chloroethoxy) methane		10	U
101-55-3	4-Bromophenylphenylether		10	U
7005-72-3	4-Chlorophenylphenylether		10	U



NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000058

Client No.

A4623A

Name: STL Buffalo Contract: C004154  
 Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244202  
 Weight/vol: 950.00 (g/mL) ML Lab File ID: Z50910.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Disturbance: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0

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

Number TICs found: 3

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	5.45	3	BJ
2. 10544-50-0	SULFUR	17.75	3	JN
3. 791-28-6	TRIPHENYLPHOSPHINE OXIDE	20.10	2	JN

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

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A4623B

Lab Name: STL Buffalo Contract: C004154

Lab Code: RBCNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244203

Sample wt/vol: 950.00 (g/mL) ML Lab File ID: Z50911.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/1

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
98-86-2	Acetophenone	10	U
1912-24-9	Atrazine	10	U
100-52-7	Benzaldehyde	10	U
105-60-2	Caprolactam	10	U
92-52-4	Biphenyl	10	U
86-30-6	N-Nitrosodiphenylamine	0.7	J
621-64-7	N-Nitroso-di-N-propylamine	10	U
88-74-4	2-Nitroaniline	26	U
99-09-2	3-Nitroaniline	26	U
100-01-6	4-Nitroaniline	26	U
91-94-1	3,3'-Dichlorobenzidine	10	U
91-58-7	2-Chloronaphthalene	10	U
132-64-9	Dibenzofuran	10	
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	5	J
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
67-72-1	Hexachloroethane	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-57-6	2-Methylnaphthalene	9	J
120-82-1	1,2,4-Trichlorobenzene	10	U
106-47-8	4-Chloroaniline	10	U
85-68-7	Butylbenzylphthalate	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
84-66-2	Diethylphthalate	1	J
131-11-3	Dimethylphthalate	10	U
84-74-2	di-n-Butylphthalate	0.4	J
117-84-0	di-n-Octylphthalate	0.7	J
86-74-8	Carbazole	19	
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000080

Client No.

A4623B

Name: STL Buffalo Contract: C004154  
 Code: RBCNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244203  
 Weight/vol: 950.00 (g/mL) ML Lab File ID: Z50911.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Disturbance: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
78-59-1	Isophorone	10		U
98-95-3	Nitrobenzene	10		UU
208-96-8	Acenaphthylene	10		U
83-32-9	Acenaphthene	10		
120-12-7	Anthracene	2		J
56-55-3	Benzo (a) anthracene	0.7		J
50-32-8	Benzo (a) pyrene	10		UU
205-99-2	Benzo (b) fluoranthene	10		UU
191-24-2	Benzo (g, h, i) perylene	10		UU
207-08-9	Benzo (k) fluoranthene	10		UU
218-01-9	Chrysene	0.4		J
53-70-3	Dibenzo (a, h) anthracene	10		UU
206-44-0	Fluoranthene	4		J
86-73-7	Fluorene	10		
193-39-5	Indeno (1, 2, 3-c, d) pyrene	10		U
91-20-3	Naphthalene	39		
85-01-8	Phenanthrene	16		
129-00-0	Pyrene	3		J
59-50-7	4-Chloro-3-methylphenol	10		UU
95-57-8	2-Chlorophenol	10		UU
120-83-2	2,4-Dichlorophenol	10		UU
105-67-9	2,4-Dimethylphenol	1		J
51-28-5	2,4-Dinitrophenol	26		UU
534-52-1	2-Methyl-4,6-dinitrophenol	26		UU
95-48-7	2-Methylphenol	10		UU
106-44-5	4-Methylphenol	10		UU
88-75-5	2-Nitrophenol	10		UU
100-02-7	4-Nitrophenol	26		UU
87-86-5	Pentachlorophenol	26		UU
108-95-2	Phenol	10		UU
95-95-4	2,4,5-Trichlorophenol	26		UU
88-06-2	2,4,6-Trichlorophenol	10		U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000061

Client

A4623B

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244203

Sample wt/vol: 950.00 (g/mL) ML Lab File ID: Z50911.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002

Injection Volume: 2.00 (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
111-44-4-----	bis(2-Chloroethyl) ether	10	U
108-60-1-----	bis(2-Chloroisopropyl) ether	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
101-55-3-----	4-Bromophenylphenylether	10	U
7005-72-3-----	4-Chlorophenylphenylether	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000062

Client No.

A4623B

Name: STL Buffalo Contract: C004154

Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

ix: (soil/water) WATER Lab Sample ID: A2244203

le wt/vol: 950.00 (g/mL) ML Lab File ID: Z50911.RR

l: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002

isture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

entrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002

ction Volume: 2.00 (uL) Dilution Factor: 1.00

leanup: (Y/N) N pH: 7.0

er TICs found: 30

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

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	5.46	5	BJ
2. 496-11-7	INDANE	6.01	4	JN
3.	UNKNOWN	7.46	5	J
4.	UNKNOWN	7.70	4	J
5.	UNKNOWN	7.90	6	J
6.	UNKNOWN	8.03	7	J
7.	UNKNOWN	8.16	14	J
8.	UNKNOWN	8.21	4	J
9.	UNKNOWN	8.71	16	J
10.	UNKNOWN	8.96	4	J
11.	UNKNOWN	9.25	5	J
12.	UNKNOWN	9.98	5	J
13.	UNKNOWN	10.15	9	J
14. 90-12-0	1-METHYLNAPHTHALENE	10.46	11	JN
15.	UNKNOWN	10.81	4	J
16.	UNKNOWN	10.96	4	J
17.	UNKNOWN	11.33	4	J
18. 74-11-3	4-CHLOROBENZOIC ACID	11.48	4	JN
19.	UNKNOWN	11.80	4	J
20.	UNKNOWN	11.86	7	J
21.	UNKNOWN	12.18	4	J
22. 98-73-7	P-TERT-BUTYL-BENZOIC ACID	13.06	4	JN
23. 126-73-8	PHOSPHORIC ACID TRIBUTYL EST	14.76	27	JN

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

00008

Client

A4623B

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244203

Sample wt/vol: 950.00 (g/mL) ML Lab File ID: Z50911.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 30

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

CAS NO.	Compound Name	RT	Est. Conc.	Q
24. 934-34-9	2 (3H) BENZOTHIAZOLONE	15.23	110	JN
25. 80-39-7	N-ETHYL-4-METHYL-BENZENESULF	15.45	13	JN
26.	UNKNOWN	16.56	6	J
27. 81-84-5	1,8-NAPHTHALIC ANHYDRIDE	17.65	15	JN
28.	UNKNOWN	18.31	130	J
29.	UNKNOWN PAH DER.	18.83	7	J
30.	UNKNOWN	19.58	10	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000064

Client No.

A4624A

Name: STL Buffalo Contract: C004154  
 Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244204  
 Sample wt/vol: 950.00 (g/mL) ML Lab File ID: Z50998.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Disturbance: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/01/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	UG/L	Q
98-86-2	Acetophenone	10	U
1912-24-9	Atrazine	10	U
100-52-7	Benzaldehyde	10	U
105-60-2	Caprolactam	10	U
92-52-4	Biphenyl	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
621-64-7	N-Nitroso-di-N-propylamine	10	U
88-74-4	2-Nitroaniline	26	U
99-09-2	3-Nitroaniline	26	U
100-01-6	4-Nitroaniline	26	U
91-94-1	3,3'-Dichlorobenzidine	10	U
91-58-7	2-Chloronaphthalene	10	U
132-64-9	Dibenzofuran	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
67-72-1	Hexachloroethane	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-57-6	2-Methylnaphthalene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
106-47-8	4-Chloroaniline	0.7	J
85-68-7	Butylbenzylphthalate	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	0.6	J
84-66-2	Diethylphthalate	0.4	J
131-11-3	Dimethylphthalate	10	U
84-74-2	di-n-Butylphthalate	10	U
117-84-0	di-n-Octylphthalate	10	U
86-74-8	Carbazole	10	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000065

Client

A4624A

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244204

Sample wt/vol: 950.00 (g/mL) ML Lab File ID: Z50998.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002

Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/01/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
78-59-1	Isophorone	10	U
98-95-3	Nitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo (a) anthracene	10	U
50-32-8	Benzo (a) pyrene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
191-24-2	Benzo (g, h, i) perylene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenzo (a, h) anthracene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
193-39-5	Indeno (1, 2, 3-c, d) pyrene	10	U
91-20-3	Naphthalene	10	U
85-01-8	Phenanthrene	10	U
129-00-0	Pyrene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
95-57-8	2-Chlorophenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
51-28-5	2,4-Dinitrophenol	26	U
534-52-1	2-Methyl-4,6-dinitrophenol	26	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	26	U
87-86-5	Pentachlorophenol	26	U
108-95-2	Phenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
88-06-2	2,4,6-Trichlorophenol	10	U



NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000066

Client No.

A4624A

Name: STL Buffalo Contract: C004154  
 Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244204  
 Sample wt/vol: 950.00 (g/mL) ML Lab File ID: Z50998.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Disturbance: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/01/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
111-44-4	-----bis (2-Chloroethyl) ether		10	U
108-60-1	-----bis (2-Chloroisopropyl) ether		10	U
111-91-1	-----bis (2-Chloroethoxy) methane		10	U
101-55-3	-----4-Bromophenylphenylether		10	U
7005-72-3	-----4-Chlorophenylphenylether		10	U

NYS DEC  
NYS DEC ASP CONTRACT #C004154 - REGION 9  
NYSDEC - ASP00 - SEMIVOLATILES/L - W  
TENTATIVELY IDENTIFIED COMPOUNDS

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cli

A4624A

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECNY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix: (soil/water) WATER

Lab Sample ID: A2244204

Sample wt/vol: 950.00 (g/mL) ML

Lab File ID: Z50998.RR

Level: (low/med) LOW

Date Samp/Recv: 03/15/2002 03

% Moisture: \_\_\_\_\_ decanted: (Y/N) N

Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/01/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q
1. 934-34-9	2 (3H) BENZOTHAZOLONE	17.36	4	JN

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000068

Client No.

A4624B

name: STL Buffalo Contract: C004154

code: REOVY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

matrix: (soil/water) WATER Lab Sample ID: A2244205

concentration: 950.00 (g/mL) ML Lab File ID: Z50913.RR

level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002

preparation: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002

aliquot Volume: 2.00 (uL) Dilution Factor: 1.00

cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	UG/L	Q
98-86-2	Acetophenone	10	U
1912-24-9	Atrazine	10	U
100-52-7	Benzaldehyde	10	U
105-60-2	Caprolactam	19	
92-52-4	Biphenyl	10	U
86-30-6	N-Nitrosodiphenylamine	2	J
621-64-7	N-Nitroso-di-N-propylamine	10	U
88-74-4	2-Nitroaniline	26	U
99-09-2	3-Nitroaniline	26	U
100-01-6	4-Nitroaniline	26	U
91-94-1	3,3'-Dichlorobenzidine	10	U
91-58-7	2-Chloronaphthalene	10	U
132-64-9	Dibenzofuran	3	J
95-50-1	1,2-Dichlorobenzene	2	J
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	6	J
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
67-72-1	Hexachloroethane	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-57-6	2-Methylnaphthalene	7	J
120-82-1	1,2,4-Trichlorobenzene	10	U
106-47-8	4-Chloroaniline	27	
85-68-7	Butylbenzylphthalate	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
84-66-2	Diethylphthalate	2	J
131-11-3	Dimethylphthalate	10	U
84-74-2	di-n-Butylphthalate	10	U
117-84-0	di-n-Octylphthalate	1	J
86-74-8	Carbazole	5	J
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000069

Client

A4624B

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244205

Sample wt/vol: 950.00 (g/mL) ML Lab File ID: Z50913.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	UG/L	Q
78-59-1-----	Isophorone	10	U
98-95-3-----	Nitrobenzene	10	U
208-96-8-----	Acenaphthylene	10	U
83-32-9-----	Acenaphthene	5	J
120-12-7-----	Anthracene	0.9	J
56-55-3-----	Benzo (a) anthracene	0.4	J
50-32-8-----	Benzo (a) pyrene	10	U
205-99-2-----	Benzo (b) fluoranthene	10	U
191-24-2-----	Benzo (g,h,i) perylene	10	U
207-08-9-----	Benzo (k) fluoranthene	10	U
218-01-9-----	Chrysene	10	U
53-70-3-----	Dibenzo (a,h) anthracene	10	U
206-44-0-----	Fluoranthene	2	J
86-73-7-----	Fluorene	4	J
193-39-5-----	Indeno (1,2,3-c,d) pyrene	10	U
91-20-3-----	Napthalene	28	
85-01-8-----	Phenanthrene	8	J
129-00-0-----	Pyrene	0.9	J
59-50-7-----	4-Chloro-3-methylphenol	10	U
95-57-8-----	2-Chlorophenol	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
105-67-9-----	2,4-Dimethylphenol	1	J
51-28-5-----	2,4-Dinitrophenol	26	U
534-52-1-----	2-Methyl-4,6-dinitrophenol	26	U
95-48-7-----	2-Methylphenol	0.3	J
106-44-5-----	4-Methylphenol	10	U
88-75-5-----	2-Nitrophenol	10	U
100-02-7-----	4-Nitrophenol	26	U
87-86-5-----	Pentachlorophenol	26	U
108-95-2-----	Phenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	26	U
88-06-2-----	2,4,6-Trichlorophenol	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000070

Client No.

A4624B

Name: STL Buffalo Contract: C004154  
 Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244205  
 Sample wt/vol: 950.00 (g/mL) ML Lab File ID: Z50913.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Disturbance: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	UG/L	Q
111-44-4	-----bis (2-Chloroethyl) ether	10	U
108-60-1	-----bis (2-Chloroisopropyl) ether	10	U
111-91-1	-----bis (2-Chloroethoxy) methane	10	U
101-55-3	-----4-Bromophenylphenylether	10	U
7005-72-3	-----4-Chlorophenylphenylether	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASPOO - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

00007

Client

A4624B

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244205

Sample wt/vol: 950.00 (g/mL) ML Lab File ID: Z50913.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/1

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 30

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

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN HYDROCARBON	4.18	5	J
2. 106-49-0	P-TOLUIDINE	6.86	5	JN
3.	UNKNOWN	7.46	6	J
4. 106-47-8	4-CHLOROANILINE	7.70	25	JN
5.	UNKNOWN	7.90	8	J
6. 76-22-2	CAMPHOR	8.03	9	JN
7.	UNKNOWN	8.71	4	J
8.	UNKNOWN	8.76	6	J
9.	UNKNOWN	9.25	6	J
10.	UNKNOWN	9.90	8	J
11.	UNKNOWN	10.03	8	J
12.	TERT-BUTYL-PHENOL ISOMER	10.30	12	J
13.	UNKNOWN	10.40	4	J
14. 90-12-0	1-METHYLNAPHTHALENE	10.46	7	JN
15.	UNKNOWN	10.81	4	J
16.	DIMETHYLPROPYLPHENOL ISOMER	11.66	9	J
17.	UNKNOWN	11.76	5	J
18.	UNKNOWN	11.85	5	J
19.	UNKNOWN	13.23	4	J
20. 126-73-8	2 (3H) BENZOTHAZOLONE	14.73	28	JN
21.	UNKNOWN	14.78	13	J
22.	UNKNOWN	15.23	130	J
23.	UNKNOWN	15.46	30	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000072

Client No.

A4624B

Name: STL Buffalo Contract: C004154

Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244205

Sample wt/vol: 950.00 (g/mL) ML Lab File ID: Z50913.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002

Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

Cleanup: (Y/N) N pH: 7.0

Number TICs found: 30 CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q
24.	UNKNOWN	16.65	4	J
25.	UNKNOWN	17.46	4	J
26.	UNKNOWN	18.30	150	J
27.	UNKNOWN	19.20	5	J
28.	UNKNOWN	19.56	10	J
29.	UNKNOWN	20.03	5	J
30.	UNKNOWN	21.06	4	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

00007

Client

A4625A

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244206

Sample wt/vol: 975.00 (g/mL) ML Lab File ID: Z50914.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	UG/L	Q
98-86-2	Acetophenone	10	U
1912-24-9	Atrazine	10	U
100-52-7	Benzaldehyde	10	U
105-60-2	Caprolactam	10	U
92-52-4	Biphenyl	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
621-64-7	N-Nitroso-di-N-propylamine	10	U
88-74-4	2-Nitroaniline	26	U
99-09-2	3-Nitroaniline	26	U
100-01-6	4-Nitroaniline	26	U
91-94-1	3,3'-Dichlorobenzidine	10	U
91-58-7	2-Chloronaphthalene	10	U
132-64-9	Dibenzofuran	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
67-72-1	Hexachloroethane	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-57-6	2-Methylnaphthalene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
106-47-8	4-Chloroaniline	10	U
85-68-7	Butylbenzylphthalate	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
84-66-2	Diethylphthalate	10	U
131-11-3	Dimethylphthalate	10	U
84-74-2	di-n-Butylphthalate	10	U
117-84-0	di-n-Octylphthalate	10	U
86-74-8	Carbazole	10	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U



NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000074

Client No.

A4625A

Name: STL Buffalo Contract: C004154  
 Code: RCNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244206  
 Sample wt/vol: 975.00 (g/mL) ML Lab File ID: Z50914.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	UG/L	Q
78-59-1-----	Isophorone	10	U
98-95-3-----	Nitrobenzene	10	U
208-96-8-----	Acenaphthylene	10	U
83-32-9-----	Acenaphthene	10	U
120-12-7-----	Anthracene	10	U
56-55-3-----	Benzo (a) anthracene	10	U
50-32-8-----	Benzo (a) pyrene	10	U
205-99-2-----	Benzo (b) fluoranthene	10	U
191-24-2-----	Benzo (g,h,i) perylene	10	U
207-08-9-----	Benzo (k) fluoranthene	10	U
218-01-9-----	Chrysene	10	U
53-70-3-----	Dibenzo (a,h) anthracene	10	U
206-44-0-----	Fluoranthene	10	U
86-73-7-----	Fluorene	10	U
193-39-5-----	Indeno (1,2,3-c,d) pyrene	10	U
91-20-3-----	Naphthalene	10	U
85-01-8-----	Phenanthrene	10	U
129-00-0-----	Pyrene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
95-57-8-----	2-Chlorophenol	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
51-28-5-----	2,4-Dinitrophenol	26	U
534-52-1-----	2-Methyl-4,6-dinitrophenol	26	U
95-48-7-----	2-Methylphenol	10	U
106-44-5-----	4-Methylphenol	10	U
88-75-5-----	2-Nitrophenol	10	U
100-02-7-----	4-Nitrophenol	26	U
87-86-5-----	Pentachlorophenol	26	U
108-95-2-----	Phenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	26	U
88-06-2-----	2,4,6-Trichlorophenol	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L-- W  
 ANALYSIS DATA SHEET

0000

Client

A4625A

Lab Name: STL Buffalo Contract: C004154

Lab Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244206

Sample wt/vol: 975.00 (g/mL) ML Lab File ID: Z50914.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/Kg)	UG/L	Q
111-44-4-----	bis(2-Chloroethyl) ether		10	U
108-60-1-----	bis(2-Chloroisopropyl) ether		10	U
111-91-1-----	bis(2-Chloroethoxy) methane		10	U
101-55-3-----	4-Bromophenylphenylether		10	U
7005-72-3-----	4-Chlorophenylphenylether		10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000076

Client No.

A4625A

Site Name: STL Buffalo Contract: C004154

Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244206

Sample wt/vol: 975.00 (g/mL) ML Lab File ID: Z50914.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002

Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

Cleanup: (Y/N) N pH: 7.0

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

Number TICs found: 3

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	5.46	4	BJ
2. 934-34-9	2 (3H) BENZOTHIAZOLONE	14.98	2	JN
3. 10544-50-0	SULFER	17.76	12	JN

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMI-VOLATILES/L - W  
 ANALYSIS DATA SHEET

000077

Client

A4625B

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244207

Sample wt/vol: 250.00 (g/mL) ML Lab File ID: Z50915.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
98-86-2	Acetophenone	10	U
1912-24-9	Atrazine	10	U
100-52-7	Benzaldehyde	10	U
105-60-2	Caprolactam	4	J
92-52-4	Biphenyl	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
621-64-7	N-Nitroso-di-N-propylamine	10	U
88-74-4	2-Nitroaniline	26	U
99-09-2	3-Nitroaniline	26	U
100-01-6	4-Nitroaniline	26	U
91-94-1	3,3'-Dichlorobenzidine	10	U
91-58-7	2-Chloronaphthalene	10	U
132-64-9	Dibenzofuran	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	4	J
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
67-72-1	Hexachloroethane	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-57-6	2-Methylnaphthalene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
106-47-8	4-Chloroaniline	10	U
85-68-7	Butylbenzylphthalate	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
84-66-2	Diethylphthalate	1	J
131-11-3	Dimethylphthalate	10	U
84-74-2	di-n-Butylphthalate	0.6	J
117-84-0	di-n-Octylphthalate	0.4	J
86-74-8	Carbazole	10	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000078

Client No.

A4625B

Name: STL Buffalo Contract: C004154  
 Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244207  
 Sample wt/vol: 950.00 (g/mL) ML Lab File ID: Z50915.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	UG/L	Q
78-59-1-----	Isophorone	10	U
98-95-3-----	Nitrobenzene	10	U
208-96-8-----	Acenaphthylene	10	U
83-32-9-----	Acenaphthene	10	U
120-12-7-----	Anthracene	10	U
56-55-3-----	Benzo (a) anthracene	10	U
50-32-8-----	Benzo (a) pyrene	10	U
205-99-2-----	Benzo (b) fluoranthene	10	U
191-24-2-----	Benzo (g, h, i) perylene	10	U
207-08-9-----	Benzo (k) fluoranthene	10	U
218-01-9-----	Chrysene	10	U
53-70-3-----	Dibenzo (a, h) anthracene	10	U
206-44-0-----	Fluoranthene	10	U
86-73-7-----	Fluorene	10	U
193-39-5-----	Indeno (1, 2, 3-c, d) pyrene	10	U
91-20-3-----	Naphthalene	2	J
85-01-8-----	Phenanthrene	0.3	J
129-00-0-----	Pyrene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
95-57-8-----	2-Chlorophenol	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
51-28-5-----	2,4-Dinitrophenol	26	U
534-52-1-----	2-Methyl-4,6-dinitrophenol	26	U
95-48-7-----	2-Methylphenol	10	U
106-44-5-----	4-Methylphenol	2	J
88-75-5-----	2-Nitrophenol	10	U
100-02-7-----	4-Nitrophenol	26	U
87-86-5-----	Pentachlorophenol	26	U
108-95-2-----	Phenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	26	U
88-06-2-----	2,4,6-Trichlorophenol	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000079

Client

A4625B

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECN Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244207

Sample wt/vol: 950.00 (g/mL) ML Lab File ID: Z50915.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/Kg)	UG/L	Q
111-44-4	bis(2-Chloroethyl) ether		10	U
108-60-1	bis(2-Chloroisopropyl) ether		10	U
111-91-1	bis(2-Chloroethoxy) methane		10	U
101-55-3	4-Bromophenylphenylether		10	U
7005-72-3	4-Chlorophenylphenylether		10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000089

Client No.

A4625B

Sample Name: STL Buffalo Contract: C004154  
 Lab Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244207  
 Sample wt/vol: 950.00 (g/mL) ML Lab File ID: Z50915.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0

Number TICs found: 20 CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	5.48	3	BJ
2.	UNKNOWN	7.46	4	J
3.	UNKNOWN HYDROCARBON	8.15	4	J
4.	UNKNOWN	8.75	3	J
5.	UNKNOWN HYDROCARBON	9.25	4	J
6.	UNKNOWN	10.06	2	J
7.	TERT-BUTYL-PHENOL ISOMER	10.28	15	J
8. 85-44-9	PHthalic ANHYDRIDE	10.48	3	JN
9.	UNKNOWN HYDROCARBON	11.63	2	J
10.	UNKNOWN	12.38	3	J
11. 134-62-3	DIETHYL TOLUAMIDE	13.88	7	JN
12.	UNKNOWN BENZENE DER.	14.76	13	J
13. 934-34-9	2 (3H) BENZOTHAZOLONE	15.13	31	JN
14. 80-39-7	N-ETHYL-4-METHYL-BENZENESULF	15.41	6	JN
15.	UNKNOWN	16.53	6	J
16. 81-84-5	1,8-NAPHTHALIC ANHYDRIDE	17.63	3	JN
17. 10544-50-0	SULFER	17.76	11	JN
18.	UNKNOWN	18.30	9	J
19.	UNKNOWN	19.58	20	J
20. 5717-37-3	TRIPHENYLPHOSPHINE OXIDE	20.23	8	JN

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASPOO - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000081

Client

A4626A

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECN Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244208

Sample wt/vol: 950.00 (g/mL) ML Lab File ID: Z50916.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002

Injection Volume: 2.00 (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
98-86-2	Acetophenone		10	U
1912-24-9	Atrazine		10	U
100-52-7	Benzaldehyde		10	U
105-60-2	Caprolactam		10	U
92-52-4	Biphenyl		10	U
86-30-6	N-Nitrosodiphenylamine		10	U
621-64-7	N-Nitroso-di-N-propylamine		10	U
88-74-4	2-Nitroaniline		26	U
99-09-2	3-Nitroaniline		26	U
100-01-6	4-Nitroaniline		26	U
91-94-1	3,3'-Dichlorobenzidine		10	U
91-58-7	2-Chloronaphthalene		10	U
132-64-9	Dibenzofuran		10	U
95-50-1	1,2-Dichlorobenzene		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
118-74-1	Hexachlorobenzene		10	U
87-68-3	Hexachlorobutadiene		10	U
67-72-1	Hexachloroethane		10	U
77-47-4	Hexachlorocyclopentadiene		10	U
91-57-6	2-Methylnaphthalene		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U
106-47-8	4-Chloroaniline		10	U
85-68-7	Butylbenzylphthalate		10	U
117-81-7	bis(2-Ethylhexyl)phthalate		25	U
84-66-2	Diethylphthalate		10	U
131-11-3	Dimethylphthalate		10	U
84-74-2	di-n-Butylphthalate		10	U
117-84-0	di-n-Octylphthalate		10	U
86-74-8	Carbazole		10	U
121-14-2	2,4-Dinitrotoluene		10	U
606-20-2	2,6-Dinitrotoluene		10	U



NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000082

Client No.

A4626A

Name: STL Buffalo Contract: C004154  
 Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315  
 Matrix: (soil/water) WATER  
 Sample wt/vol: 950.00 (g/mL) ML  
 Level: (low/med) LOW  
 Moisture: \_\_\_\_\_ decanted: (Y/N) N  
 Concentrated Extract Volume: 1000 (uL)  
 Injection Volume: 2.00 (uL)  
 Cleanup: (Y/N) N pH: 7.0

Lab Sample ID: A2244208  
 Lab File ID: Z50916.RR  
 Date Samp/Recv: 03/15/2002 03/15/2002  
 Date Extracted: 03/19/2002  
 Date Analyzed: 03/22/2002  
 Dilution Factor: 1.00

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

CAS NO.	COMPOUND	UG/L	Q
78-59-1-----	Isophorone	10	U
98-95-3-----	Nitrobenzene	10	U
208-96-8-----	Acenaphthylene	10	U
83-32-9-----	Acenaphthene	10	U
120-12-7-----	Anthracene	10	U
56-55-3-----	Benzo (a) anthracene	10	U
50-32-8-----	Benzo (a) pyrene	10	U
205-99-2-----	Benzo (b) fluoranthene	10	U
191-24-2-----	Benzo (g, h, i) perylene	10	U
207-08-9-----	Benzo (k) fluoranthene	10	U
218-01-9-----	Chrysene	10	U
53-70-3-----	Dibenzo (a, h) anthracene	10	U
206-44-0-----	Fluoranthene	10	U
86-73-7-----	Fluorene	10	U
193-39-5-----	Indeno (1, 2, 3-c, d) pyrene	10	U
91-20-3-----	Naphtalene	10	U
85-01-8-----	Phenanthrene	10	U
129-00-0-----	Pyrene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
95-57-8-----	2-Chlorophenol	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
51-28-5-----	2,4-Dinitrophenol	26	U
534-52-1-----	2-Methyl-4,6-dinitrophenol	26	U
95-48-7-----	2-Methylphenol	10	U
106-44-5-----	4-Methylphenol	10	U
88-75-5-----	2-Nitrophenol	10	U
100-02-7-----	4-Nitrophenol	26	U
87-86-5-----	Pentachlorophenol	26	U
108-95-2-----	Phenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	26	U
88-06-2-----	2,4,6-Trichlorophenol	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASPOO - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000083

Client

A4626A

Lab Name: STL Buffalo Contract: C004154

Lab Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244208

Sample wt/vol: 950.00 (g/mL) ML Lab File ID: Z50916.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
111-44-4-----	bis(2-Chloroethyl) ether		10	U
108-60-1-----	bis(2-Chloroisopropyl) ether		10	U
111-91-1-----	bis(2-Chloroethoxy) methane		10	U
101-55-3-----	4-Bromophenylphenylether		10	U
7005-72-3-----	4-Chlorophenylphenylether		10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000084

Client No.

A4626A

Name: STL Buffalo

Contract: C004154

Code: REQNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER

Lab Sample ID: A2244208

Sample wt/vol: 950.00 (g/mL) ML

Lab File ID: Z50916.RR

Level: (low/med) LOW

Date Samp/Recv: 03/15/2002 03/15/2002

Moisture: \_\_\_\_\_ decanted: (Y/N) N

Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/22/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	Compound Name	RT	Est. Conc.	Q
1. 7704-34-9	SULFER	17.88	430	JN

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000085

Client

A4627A

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244209

Sample wt/vol: 950.00 (g/mL) ML Lab File ID: Z50917.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002

Injection Volume: 2.00 (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
98-86-2	Acetophenone		10	U
1912-24-9	Atrazine		10	U
100-52-7	Benzaldehyde		10	U
105-60-2	Caprolactam		10	U
92-52-4	Biphenyl		10	U
86-30-6	N-Nitrosodiphenylamine		10	U
621-64-7	N-Nitroso-di-N-propylamine		10	U
88-74-4	2-Nitroaniline		26	U
99-09-2	3-Nitroaniline		26	U
100-01-6	4-Nitroaniline		26	U
91-94-1	3,3'-Dichlorobenzidine		10	U
91-58-7	2-Chloronaphthalene		10	U
132-64-9	Dibenzofuran		10	U
95-50-1	1,2-Dichlorobenzene		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
118-74-1	Hexachlorobenzene		10	U
87-68-3	Hexachlorobutadiene		10	U
67-72-1	Hexachloroethane		10	U
77-47-4	Hexachlorocyclopentadiene		10	U
91-57-6	2-Methylnaphthalene		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U
106-47-8	4-Chloroaniline		1	J
85-68-7	Butylbenzylphthalate		10	U
117-81-7	bis(2-Ethylhexyl)phtalate		6	J
84-66-2	Diethylphthalate		2	J
131-11-3	Dimethylphthalate		10	U
84-74-2	di-n-Butylphthalate		1	J
117-84-0	di-n-Octylphthalate		10	U
86-74-8	Carbazole		10	U
121-14-2	2,4-Dinitrotoluene		10	U
606-20-2	2,6-Dinitrotoluene		10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000086

Client No.

A4627A

Sample Name: STL Buffalo Contract: C004154  
 Lab Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244209  
 Sample wt/vol: 950.00 (g/mL) ML Lab File ID: Z50917.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	UG/L	Q
78-59-1	Isophorone	10	U
98-95-3	Nitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo (a) anthracene	10	U
50-32-8	Benzo (a) pyrene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
191-24-2	Benzo (g, h, i) perylene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenzo (a, h) anthracene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	1	J
193-39-5	Indeno (1, 2, 3-c, d) pyrene	10	U
91-20-3	Naphthalene	10	U
85-01-8	Phenanthrene	0.6	J
129-00-0	Pyrene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
95-57-8	2-Chlorophenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
51-28-5	2,4-Dinitrophenol	26	U
534-52-1	2-Methyl-4,6-dinitrophenol	26	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	26	U
87-86-5	Pentachlorophenol	26	U
108-95-2	Phenol	10	U
95-95-4	2,4,5-Trichlorophenol	26	U
88-06-2	2,4,6-Trichlorophenol	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000087

Clia

A4627A

Lab Name: STL Buffalo Contract: C004154

Lab Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244209

Sample wt/vol: 950.00 (g/mL) ML Lab File ID: Z50917.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/22/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
111-44-4-----	bis(2-Chloroethyl) ether		10	U
108-60-1-----	bis(2-Chloroisopropyl) ether		10	U
111-91-1-----	bis(2-Chloroethoxy) methane		10	U
101-55-3-----	4-Bromophenylphenylether		10	U
7005-72-3-----	4-Chlorophenylphenylether		10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000088

Client No.

A4627A

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER

Lab Sample ID: A2244209

Sample wt/vol: 950.00 (g/mL) ML

Lab File ID: Z50917.RR

Level: (low/med) LOW

Date Samp/Recv: 03/15/2002 03/15/2002

Moisture: \_\_\_\_\_ decanted: (Y/N) N

Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/22/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GC Cleanup: (Y/N) N pH: 7.0

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

Number TICs found: 6

CAS NO.	Compound Name	RT	Est. Conc.	Q
1. 95-49-8	CHLOROMETHYLBENZENE ISOMER	4.31	8	JN
2.	UNKNOWN	5.48	4	BJ
3.	UNKNOWN BENZENE DER.	10.00	2	J
4. 934-34-9	2 (3H) BENZOTHIAZOLONE	15.00	4	JN
5.	UNKNOWN	18.26	12	J
6.	UNKNOWN PHENOL DER.	19.56	4	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

00008

Client

A4628A

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244210

Sample wt/vol: 925.00 (g/mL) ML Lab File ID: Z50954.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/2002

Injection Volume: 2.00 (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
98-86-2	Acetophenone		11	U
1912-24-9	Atrazine		11	U
100-52-7	Benzaldehyde		11	U
105-60-2	Caprolactam		11	U
92-52-4	Biphenyl		11	U
86-30-6	N-Nitrosodiphenylamine		11	U
621-64-7	N-Nitroso-di-N-propylamine		11	U
88-74-4	2-Nitroaniline		27	U
99-09-2	3-Nitroaniline		27	U
100-01-6	4-Nitroaniline		27	U
91-94-1	3,3'-Dichlorobenzidine		11	U
91-58-7	2-Chloronaphthalene		11	U
132-64-9	Dibenzofuran		11	U
95-50-1	1,2-Dichlorobenzene		11	U
541-73-1	1,3-Dichlorobenzene		11	U
106-46-7	1,4-Dichlorobenzene		11	U
118-74-1	Hexachlorobenzene		11	U
87-68-3	Hexachlorobutadiene		11	U
67-72-1	Hexachloroethane		11	U
77-47-4	Hexachlorocyclopentadiene		11	U
91-57-6	2-Methylnaphthalene		3	J
120-82-1	1,2,4-Trichlorobenzene		11	U
106-47-8	4-Chloroaniline		11	U
85-68-7	Butylbenzylphthalate		11	U
117-81-7	bis(2-Ethylhexyl)phthalate		1	J
84-66-2	Diethylphthalate		0.5	J
131-11-3	Dimethylphthalate		11	U
84-74-2	di-n-Butylphthalate		0.7	J
117-84-0	di-n-Octylphthalate		11	U
86-74-8	Carbazole		0.7	J
121-14-2	2,4-Dinitrotoluene		11	U
606-20-2	2,6-Dinitrotoluene		11	U



NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000030

Client No.

A4628A

Name: STL Buffalo Contract: C004154  
 Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244210  
 Sample wt/vol: 925.00 (g/mL) ML Lab File ID: Z50954.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
78-59-1	Isophorone	11	U
98-95-3	Nitrobenzene	11	U
208-96-8	Acenaphthylene	11	U
83-32-9	Acenaphthene	11	U
120-12-7	Anthracene	11	U
56-55-3	Benzo (a) anthracene	11	U
50-32-8	Benzo (a) pyrene	11	U
205-99-2	Benzo (b) fluoranthene	11	U
191-24-2	Benzo (g, h, i) perylene	11	U
207-08-9	Benzo (k) fluoranthene	11	U
218-01-9	Chrysene	11	U
53-70-3	Dibenzo (a, h) anthracene	11	U
206-44-0	Fluoranthene	11	U
86-73-7	Fluorene	0.3	J
193-39-5	Indeno (1, 2, 3-c, d) pyrene	11	U
91-20-3	Naphthalene	1	J
85-01-8	Phenanthrene	2	J
129-00-0	Pyrene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
95-57-8	2-Chlorophenol	11	U
120-83-2	2,4-Dichlorophenol	11	U
105-67-9	2,4-Dimethylphenol	0.4	J
51-28-5	2,4-Dinitrophenol	27	U
534-52-1	2-Methyl-4,6-dinitrophenol	27	U
95-48-7	2-Methylphenol	0.4	J
106-44-5	4-Methylphenol	3	J
88-75-5	2-Nitrophenol	11	U
100-02-7	4-Nitrophenol	27	U
87-86-5	Pentachlorophenol	27	U
108-95-2	Phenol	6	J
95-95-4	2,4,5-Trichlorophenol	27	U
88-06-2	2,4,6-Trichlorophenol	11	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000031

Client

A4628A

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SF901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244210

Sample wt/vol: 925.00 (g/mL) ML Lab File ID: Z50954.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/2002

Injection Volume: 2.00 (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
111-44-4-----	bis(2-Chloroethyl) ether		11	U
108-60-1-----	bis(2-Chloroisopropyl) ether		11	U
111-91-1-----	bis(2-Chloroethoxy) methane		11	U
101-55-3-----	4-Bromophenylphenylether		11	U
7005-72-3-----	4-Chlorophenylphenylether		11	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000032

Client No.

A4628A

Name: STL Buffalo

Contract: C004154

Code: RECN

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix: (soil/water) WATER

Lab Sample ID: A2244210

Sample wt/vol: 925.00 (g/mL) ML

Lab File ID: Z50954.RR

Level: (low/med) LOW

Date Samp/Recv: 03/15/2002 03/15/2002

Moisture: \_\_\_\_\_ decanted: (Y/N) N

Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/27/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 27

CAS NO.	Compound Name	RT	Est. Conc.	Q
1. 123-91-1	1,4-DIOXANE	3.21	21	JN
2. 108-87-2	METHYLCYCLOHEXANE	3.38	9	JN
3. 103-65-1	N-PROPYLBENZENE	7.63	4	JN
4.	ETHYLMETHYLBENZENE ISOMER	7.78	12	J
5.	TRIMETHYLBENZENE ISOMER	7.91	14	J
6.	TRIMETHYLBENZENE ISOMER	8.38	31	J
7.	UNKNOWN	8.58	4	J
8.	TRIMETHYLBENZENE ISOMER	8.90	8	J
9.	UNKNOWN	10.48	6	J
10.	UNKNOWN	10.80	4	J
11.	UNKNOWN	11.26	3	J
12.	UNKNOWN	12.25	7	J
13.	UNKNOWN	12.81	9	J
14. 90-12-0	1-METHYLNAPHTHALENE	13.51	3	JN
15.	UNKNOWN	14.60	5	J
16.	UNKNOWN	15.01	5	J
17.	UNKNOWN BENZENE DER.	15.21	6	J
18.	UNKNOWN	15.33	4	J
19. 143-07-7	DODECANOIC ACID	16.36	9	JN
20. 134-62-3	DIETHYLTOLUAMIDE	16.65	6	JN
21.	UNKNOWN	17.35	8	J
22. 934-34-9	2 (3H) BENZOTHIAZOLONE	17.51	36	JN
23.	NAPHTHALENECARBOXYLIC ACID I	17.58	4	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000033

Client

A4628A

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECN Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244210

Sample wt/vol: 925.00 (g/mL) ML Lab File ID: Z50954.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/02

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/27/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

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

Number TICs found: 27

CAS NO.	Compound Name	RT	Est. Conc.	Q
24.	NAPHTHALENECARBOXYLIC ACID I	17.68	7	J
25. 80-39-7	N-ETHYL-4-METHYL-BENZENESULF	17.83	13	JN
26.	UNKNOWN	18.50	8	J
27.	UNKNOWN	20.36	13	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

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Client No.

A4628A RE

Site Name: STL Buffalo Contract: C004154  
 Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244210RI  
 Sample wt/vol: 925.00 (g/mL) ML Lab File ID: Z50977.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/28/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	<u>UG/L</u>	<u>Q</u>
98-86-2	Acetophenone	11		U
1912-24-9	Atrazine	11		U
100-52-7	Benzaldehyde	11		U
105-60-2	Caprolactam	11		U
92-52-4	Biphenyl	0.5		J
86-30-6	N-Nitrosodiphenylamine	11		U
621-64-7	N-Nitroso-di-N-propylamine	11		U
88-74-4	2-Nitroaniline	27		U
99-09-2	3-Nitroaniline	27		U
100-01-6	4-Nitroaniline	27		U
91-94-1	3,3'-Dichlorobenzidine	11		U
91-58-7	2-Chloronaphthalene	11		U
132-64-9	Dibenzofuran	0.3		J
95-50-1	1,2-Dichlorobenzene	11		U
941-73-1	1,3-Dichlorobenzene	11		U
106-46-7	1,4-Dichlorobenzene	11		U
118-74-1	Hexachlorobenzene	11		U
87-68-3	Hexachlorobutadiene	11		U
67-72-1	Hexachloroethane	11		U
77-47-4	Hexachlorocyclopentadiene	11		U
91-57-6	2-Methylnaphthalene	3		J
120-82-1	1,2,4-Trichlorobenzene	11		U
106-47-8	4-Chloroaniline	11		U
85-68-7	Butylbenzylphthalate	11		U
117-81-7	bis(2-Ethylhexyl)phthalate	1		J
84-66-2	Diethylphthalate	0.7		J
131-11-3	Dimethylphthalate	11		U
84-74-2	di-n-Butylphthalate	0.6		J
117-84-0	di-n-Octylphthalate	11		U
86-74-8	Carbazole	0.6		J
121-14-2	2,4-Dinitrotoluene	11		U
606-20-2	2,6-Dinitrotoluene	11		U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

0000S

Client

A4628A RE

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECNY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix: (soil/water) WATER

Lab Sample ID: A224421ORI

Sample wt/vol: 925.00 (g/mL) ML

Lab File ID: Z50977.RR

Level: (low/med) LOW

Date Samp/Recv: 03/15/2002 03/15

% Moisture: \_\_\_\_\_ decanted: (Y/N) N

Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/28/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
78-59-1	Isophorone		11	U
98-95-3	Nitrobenzene		11	U
208-96-8	Acenaphthylene		11	U
83-32-9	Acenaphthene		11	U
120-12-7	Anthracene		11	U
56-55-3	Benzo (a) anthracene		11	U
50-32-8	Benzo (a) pyrene		11	U
205-99-2	Benzo (b) fluoranthene		11	U
191-24-2	Benzo (g, h, i) perylene		11	U
207-08-9	Benzo (k) fluoranthene		11	U
218-01-9	Chrysene		11	U
53-70-3	Dibenzo (a, h) anthracene		11	U
206-44-0	Fluoranthene		11	U
86-73-7	Fluorene	0.4		J
193-39-5	Indeno (1,2,3-c,d) pyrene		11	U
91-20-3	Naphthalene	1		J
85-01-8	Phenanthrene	2		J
129-00-0	Pyrene		11	U
59-50-7	4-Chloro-3-methylphenol		11	U
95-57-8	2-Chlorophenol		11	U
120-83-2	2,4-Dichlorophenol		11	U
105-67-9	2,4-Dimethylphenol	0.6		J
51-28-5	2,4-Dinitrophenol		27	U
534-52-1	2-Methyl-4,6-dinitrophenol		27	U
95-48-7	2-Methylphenol	0.6		J
106-44-5	4-Methylphenol	3		J
88-75-5	2-Nitrophenol		11	U
100-02-7	4-Nitrophenol		27	U
87-86-5	Pentachlorophenol		27	U
108-95-2	Phenol		6	J
95-95-4	2,4,5-Trichlorophenol		27	U
88-06-2	2,4,6-Trichlorophenol		11	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000096

Client No.

A4628A RE

Site Name: STL Buffalo Contract: C004154  
 Site Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A224421ORI  
 Sample wt/vol: 925.00 (g/mL) ML Lab File ID: Z50977.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/28/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	UG/L	Q
111-44-4-----	bis(2-Chloroethyl) ether	11	U
108-60-1-----	bis(2-Chloroisopropyl) ether	11	U
111-91-1-----	bis(2-Chloroethoxy) methane	11	U
101-55-3-----	4-Bromophenylphenylether	11	U
7005-72-3-----	4-Chlorophenylphenylether	11	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

00009

Client

A4628A RE

Lab Name: STL Buffalo Contract: C004154  
 Lab Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244210RI  
 Sample wt/vol: 925.00 (g/mL) ML Lab File ID: Z50977.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/1  
 % Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/28/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 26

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

CAS NO.	Compound Name	RT	Est. Conc.	Q
1. 108-87-2	METHYLCYCLOHEXANE	3.31	15	JN
2. 590-36-3	SUSPECTED ALDOL COND. PRODUCT	3.48	3	JN
3.	UNKNOWN	3.80	4	J
4.	METHYLETHYLBENZENE ISOMER	7.05	4	J
5.	UNKNOWN	7.16	3	J
6. 103-65-1	N-PROPYLBENZENE	7.60	4	JN
7.	ETHYLMETHYLBENZENE ISOMER	7.75	14	J
8.	TRIMETHYLBENZENE ISOMER	7.88	12	J
9.	TRIMETHYLBENZENE ISOMER	8.35	32	J
10.	UNKNOWN	8.55	5	J
11.	TRIMETHYLBENZENE ISOMER	8.86	8	J
12.	UNKNOWN	10.45	6	J
13.	UNKNOWN	10.76	5	J
14.	UNKNOWN	11.23	4	J
15.	UNKNOWN	12.21	6	J
16.	UNKNOWN	12.78	9	J
17.	UNKNOWN BENZENE DER.	15.18	5	J
18.	METHYLPENTENE ISOMER	15.30	3	J
19. 143-07-7	DODECANOIC ACID	16.35	8	JN
20. 134-62-3	DIETHYLTOLUAMIDE	16.61	5	JN
21.	UNKNOWN	16.95	3	J
22.	UNKNOWN	17.33	9	J
23. 934-34-9	2 (3H) BENZOTHAZOLONE	17.50	39	JN



NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000098

Client No.

A4628A RE

Site Name: STL Buffalo Contract: C004154  
 Lab Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244210RI  
 Sample wt/vol: 925.00 (g/mL) ML Lab File ID: Z50977.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/28/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0

Number TICs found: 26 CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q
24. 80-39-7	N-ETHYL-4-METHYL-BENZENESULF	17.80	13	JN
25.	UNKNOWN	20.35	20	J
26.	UNKNOWN	24.00	4	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

00003

Client

A4629A

Lab Name: STL Buffalo Contract: C004154

Lab Code: RFCNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244211

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: Z50978.RR

Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/28/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	UG/L	Q
98-86-2	Acetophenone	10	U
1912-24-9	Atrazine	10	U
100-52-7	Benzaldehyde	10	U
105-60-2	Caprolactam	10	U
92-52-4	Biphenyl	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
621-64-7	N-Nitroso-di-N-propylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
91-94-1	3,3'-Dichlorobenzidine	10	U
91-58-7	2-Chloronaphthalene	10	U
132-64-9	Dibenzofuran	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
67-72-1	Hexachloroethane	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-57-6	2-Methylnaphthalene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
106-47-8	4-Chloroaniline	10	U
85-68-7	Butylbenzylphthalate	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	3	J
84-66-2	Diethylphthalate	0.7	J
131-11-3	Dimethylphthalate	10	U
84-74-2	di-n-Butylphthalate	0.3	J
117-84-0	di-n-Octylphthalate	0.3	J
86-74-8	Carbazole	10	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000150

Client No.

A4629A

Lab Name: STL Buffalo Contract: C004154  
 Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244211  
 Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: Z50978.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/28/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 PC Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	UG/L	Q
78-59-1-----	Isophorone	10	U
98-95-3-----	Nitrobenzene	10	U
208-96-8-----	Acenaphthylene	10	U
83-32-9-----	Acenaphthene	10	U
120-12-7-----	Anthracene	10	U
56-55-3-----	Benzo (a) anthracene	10	U
50-32-8-----	Benzo (a) pyrene	10	U
205-99-2-----	Benzo (b) fluoranthene	10	U
191-24-2-----	Benzo (g, h, i) perylene	10	U
207-08-9-----	Benzo (k) fluoranthene	10	U
218-01-9-----	Chrysene	10	U
53-70-3-----	Dibenzo (a, h) anthracene	10	U
206-44-0-----	Fluoranthene	10	U
86-73-7-----	Fluorene	10	U
193-39-5-----	Indeno (1, 2, 3-c, d) pyrene	10	U
91-20-3-----	Naphthalene	10	U
85-01-8-----	Phenanthrene	10	U
129-00-0-----	Pyrene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
95-57-8-----	2-Chlorophenol	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
51-28-5-----	2,4-Dinitrophenol	25	U
534-52-1-----	2-Methyl-4,6-dinitrophenol	25	U
95-48-7-----	2-Methylphenol	10	U
106-44-5-----	4-Methylphenol	10	U
88-75-5-----	2-Nitrophenol	10	U
100-02-7-----	4-Nitrophenol	25	U
87-86-5-----	Pentachlorophenol	25	U
108-95-2-----	Phenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	25	U
88-06-2-----	2,4,6-Trichlorophenol	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

0001

Client

A4629A

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECNV

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix: (soil/water) WATER

Lab Sample ID: A2244211

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: Z50978.RR

Level: (low/med) LOW

Date Samp/Recv: 03/15/2002 03/15/2002

% Moisture: \_\_\_\_\_ decanted: (Y/N) N

Date Extracted: 03/19/2002

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/28/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
111-44-4	bis(2-Chloroethyl) ether		10	U
108-60-1	bis(2-Chloroisopropyl) ether		10	U
111-91-1	bis(2-Chloroethoxy) methane		10	U
101-55-3	4-Bromophenylphenylether		10	U
7005-72-3	4-Chlorophenylphenylether		10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000102

Client No.

A4629A

Sample Name: STL Buffalo Contract: C004154  
 Sample Code: REQNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244211  
 Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: Z50978.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/15/2002 03/15/2002  
 Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03/19/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/28/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0

Number TICs found: 14

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

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	8.51	4	J
2. 149-30-4	2-MERCAPTOBENZOTHAZOLE	19.43	2	JN
3.	UNKNOWN ACID	20.46	6	J
4.	UNKNOWN SILICONE CPD.	20.93	2	J
5. 123-95-5	OCTADECANOIC ACID, BUTYL ESTR	21.53	4	JN
6.	UNKNOWN SILICONE CPD.	21.70	3	J
7. 5717-37-3	TRIPHENYLPHOSPHINE OXIDE	22.68	3	JN
8.	UNKNOWN HYDROCARBON	22.75	2	J
9.	UNKNOWN SILICONE CPD.	23.38	8	J
10.	UNKNOWN SILICONE CPD.	24.26	6	J
11.	UNKNOWN SILICONE CPD.	25.16	5	J
12.	UNKNOWN SILICONE CPD.	26.08	5	J
13.	UNKNOWN SILICONE CPD.	27.01	5	J
14.	UNKNOWN SILICONE CPD.	27.95	4	J

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

A4622B

Lab Name: STL Buffalo

Contract: C003785

Lab Code: RECNY

Case No.: SH901

SAS No.:

SDG No.: 0315

Matrix: (soil/water) WATER

Lab Sample ID: A2244201

Sample wt/vol: 1010 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 03/15/02

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 03/19/02

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 03/20/02

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N

pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.099	U
72-55-9-----	4,4'-DDE	0.099	U
72-20-8-----	Endrin	0.099	U
33213-65-9-----	Endosulfan II	0.099	U
72-54-8-----	4,4'-DDD	0.099	U
1031-07-8-----	Endosulfan sulfate	0.099	U
50-29-3-----	4,4'-DDT	0.099	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.099	U
7421-93-4-----	Endrin aldehyde	0.099	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	0.99	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	0.99	U
53469-21-9-----	Aroclor-1242	0.99	U
12672-29-6-----	Aroclor-1248	0.99	U
11097-69-1-----	Aroclor-1254	0.99	U
11096-82-5-----	Aroclor-1260	0.99	U

C00104

EPA SAMPLE NO.

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

A4623A

Name: STL Buffalo

Contract: C003785

Code: RECNV

Case No.: SH901

SAS No.:

SDG No.: 0315

Matrix: (soil/water) WATER

Lab Sample ID: A2244202

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

Moisture: decanted: (Y/N)

Date Received: 03/15/02

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 03/19/02

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 03/20/02

Extraction Volume: 1.00 (uL)

Dilution Factor: 1.00

Cleanup: (Y/N) N

pH: 7.0

Sulfur Cleanup: (Y/N) N

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

CAS NO.

COMPOUND

Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

A4623B

Lab Name: STL Buffalo Contract: C003785

Lab Code: RECN Y Case No.: SH901 SAS No.: SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244203

Sample wt/vol: 1040 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/15/02

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/19/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/20/02

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.048	U
319-85-7	beta-BHC	0.048	U
319-86-8	delta-BHC	0.048	U
58-89-9	gamma-BHC (Lindane)	0.048	U
76-44-8	Heptachlor	0.048	U
309-00-2	Aldrin	0.048	U
1024-57-3	Heptachlor epoxide	0.048	U
959-98-8	Endosulfan I	0.048	U
60-57-1	Dieldrin	0.096	U
72-55-9	4,4'-DDE	0.096	U
72-20-8	Endrin	0.096	U
33213-65-9	Endosulfan II	0.096	U
72-54-8	4,4'-DDD	0.096	U
1031-07-8	Endosulfan sulfate	0.096	U
50-29-3	4,4'-DDT	0.096	U
72-43-5	Methoxychlor	0.48	U
53494-70-5	Endrin ketone	0.096	U
7421-93-4	Endrin aldehyde	0.096	U
5103-71-9	alpha-Chlordane	0.048	U
5103-74-2	gamma-Chlordane	0.048	U
8001-35-2	Toxaphene	4.8	U
12674-11-2	Aroclor-1016	0.96	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.96	U
53469-21-9	Aroclor-1242	0.96	U
12672-29-6	Aroclor-1248	0.96	U
11097-69-1	Aroclor-1254	0.96	U
11096-82-5	Aroclor-1260	0.96	U



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PESTICIDE ORGANICS ANALYSIS DATA SHEET

A4624A

Lab Name: STL Buffalo Contract: C003785

Lab Code: RECNY Case No.: SH901 SAS No.: SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244204

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/15/02

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/19/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/20/02

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

ID  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

000107  
EPA SAMPLE NO.

A4624B

Name: STL Buffalo                      Contract: C003785

Code: RECNY      Case No.: SH901      SAS No.:                      SDG No.: 0315

Matrix: (soil/water) WATER                      Lab Sample ID: A2244205

Sample wt/vol:      975.0 (g/mL) ML                      Lab File ID:

Preparation:                      decanted: (Y/N)                      Date Received: 03/15/02

Extraction:      (SepF/Cont/Sonc)      SEPF                      Date Extracted: 03/19/02

Concentrated Extract Volume:      10000 (uL)                      Date Analyzed: 03/20/02

Injection Volume: 1.00 (uL)                      Dilution Factor:      1.00

Cleanup:      (Y/N) N                      pH: 7.0                      Sulfur Cleanup: (Y/N) N

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

CAS NO.                      COMPOUND                      Q

319-84-6-----	alpha-BHC	0.052	U
319-85-7-----	beta-BHC	0.052	U
319-86-8-----	delta-BHC	0.052	U
58-89-9-----	gamma-BHC (Lindane)	0.052	U
76-44-8-----	Heptachlor	0.052	U
309-00-2-----	Aldrin	0.052	U
1024-57-3-----	Heptachlor epoxide	0.052	U
959-98-8-----	Endosulfan I	0.052	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.52	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.052	U
5103-74-2-----	gamma-Chlordane	0.052	U
8001-35-2-----	Toxaphene	5.2	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.1	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

A4625A

Lab Name: STL Buffalo Contract: C003785

Lab Code: RECNV Case No.: SH901 SAS No.: SDG No.: 0315

Matrix: (soil/water) WATER Lab Sample ID: A2244206

Sample wt/vol: 1010 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/15/02

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/19/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/20/02

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.099	U
72-55-9	4,4'-DDE	0.099	U
72-20-8	Endrin	0.099	U
33213-65-9	Endosulfan II	0.099	U
72-54-8	4,4'-DDD	0.099	U
1031-07-8	Endosulfan sulfate	0.099	U
50-29-3	4,4'-DDT	0.099	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.099	U
7421-93-4	Endrin aldehyde	0.099	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	0.99	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	0.99	U
53469-21-9	Aroclor-1242	0.99	U
12672-29-6	Aroclor-1248	0.99	U
11097-69-1	Aroclor-1254	0.99	U
11096-82-5	Aroclor-1260	0.99	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A4625B

Name: STL Buffalo Contract: C003785  
 Code: RECNY Case No.: SH901 SAS No.: SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244207  
 Sample wt/vol: 1000 (g/mL) ML Lab File ID:  
 Moisture: decanted: (Y/N) Date Received: 03/15/02  
 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/19/02  
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/20/02  
 Injection Volume: 1.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

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

CAS NO. COMPOUND Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

FORM I PEST

ASP00

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A4626A

Lab Name: STL Buffalo Contract: C003785  
 Lab Code: RECNY Case No.: SH901 SAS No.: SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244208  
 Sample wt/vol: 1000 (g/mL) ML Lab File ID:  
 % Moisture: decanted: (Y/N) Date Received: 03/15/02  
 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/19/02  
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/21/02  
 Injection Volume: 1.00 (uL) Dilution Factor: 1.00  
 GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A4626ARE

Name: STL Buffalo Contract: C003785  
 Code: RECNY Case No.: SH901 SAS No.: SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244208RE  
 Sample wt/vol: 1000 (g/mL) ML Lab File ID:  
 Moisture: decanted: (Y/N) Date Received: 03/15/02  
 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/20/02  
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/21/02  
 Injection Volume: 1.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

A4627A

Lab Name: STL Buffalo Contract: C003785  
 Lab Code: RECNY Case No.: SH901 SAS No.: SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244209  
 Sample wt/vol: 1000 (g/mL) ML Lab File ID:  
 % Moisture: decanted: (Y/N) Date Received: 03/15/02  
 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/19/02  
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/20/02  
 Injection Volume: 1.00 (uL) Dilution Factor: 1.00  
 GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

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

CAS NO. COMPOUND Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U



000113

EPA SAMPLE NO.

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## PESTICIDE ORGANICS ANALYSIS DATA SHEET

A4628A

Name: STL Buffalo Contract: C003785  
 Code: RECNY Case No.: SH901 SAS No.: SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244210  
 Sample wt/vol: 1010 (g/mL) ML Lab File ID:  
 Moisture: decanted: (Y/N) Date Received: 03/15/02  
 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/19/02  
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/21/02  
 Injection Volume: 1.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

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

CAS NO. COMPOUND Q

319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.051	P
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.13	
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.099	U
72-55-9	4,4'-DDE	0.099	U
72-20-8	Endrin	0.11	
33213-65-9	Endosulfan II	0.099	U
72-54-8	4,4'-DDD	0.099	U
1031-07-8	Endosulfan sulfate	0.099	U
50-29-3	4,4'-DDT	0.099	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.099	U
7421-93-4	Endrin aldehyde	0.099	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	0.99	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	0.99	U
53469-21-9	Aroclor-1242	0.99	U
12672-29-6	Aroclor-1248	0.99	U
11097-69-1	Aroclor-1254	0.99	U
11096-82-5	Aroclor-1260	0.99	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

0001  
EPA SAMPLE NO.

A4629A

Lab Name: STL Buffalo Contract: C003785  
 Lab Code: RECNY Case No.: SH901 SAS No.: SDG No.: 0315  
 Matrix: (soil/water) WATER Lab Sample ID: A2244211  
 Sample wt/vol: 975.0 (g/mL) ML Lab File ID:  
 % Moisture: decanted: (Y/N) Date Received: 03/15/02  
 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/19/02  
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/21/02  
 Injection Volume: 1.00 (uL) Dilution Factor: 1.00  
 GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND	Q
319-84-6	alpha-BHC	0.052 U
319-85-7	beta-BHC	0.052 U
319-86-8	delta-BHC	0.052 U
58-89-9	gamma-BHC (Lindane)	0.052 U
76-44-8	Heptachlor	0.052 U
309-00-2	Aldrin	0.052 U
1024-57-3	Heptachlor epoxide	0.052 U
959-98-8	Endosulfan I	0.052 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
1031-07-8	Endosulfan sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.52 U
53494-70-5	Endrin ketone	0.10 U
7421-93-4	Endrin aldehyde	0.10 U
5103-71-9	alpha-Chlordane	0.052 U
5103-74-2	gamma-Chlordane	0.052 U
8001-35-2	Toxaphene	5.2 U
12674-11-2	Aroclor-1016	1.0 U
11104-28-2	Aroclor-1221	2.1 U
11141-16-5	Aroclor-1232	1.0 U
53469-21-9	Aroclor-1242	1.0 U
12672-29-6	Aroclor-1248	1.0 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 U

NYS DEC

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

A4622B

Contract: NY00-096

Lab Code: STL BFLO

Case No.: SH901

SAS No.:

SDG NO.: 0315

Matrix (soil/water): WATER

Lab Sample ID: AD204212

Level (low/med): LOW

Date Received: 3/15/02

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	98.4	B		P
7440-36-0	Antimony	7.5	B		P
7440-38-2	Arsenic	3.9	U		P
7440-39-3	Barium	401			P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	180000			P
7440-47-3	Chromium	1.5	B		P
7440-48-4	Cobalt	2.1	B		P
7440-50-8	Copper	1.1	B		P
7439-89-6	Iron	59400		E	P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	34200			P
7439-96-5	Manganese	350			P
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	14900			P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.90	U		P
7439-97-6	Mercury	0.032	U		CV
7440-23-5	Sodium	396000			P
7440-28-0	Thallium	5.3	U		P
7440-62-2	Vanadium	0.70	U		P
7440-66-6	Zinc	15.4	B		P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: NONE

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

NYS DEC

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## INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

A4623A

Contract: NY00-096Lab Code: STL BFLOCase No.: SH901

SAS No.: \_\_\_\_\_

SDG NO.: 0315Matrix (soil/water): WATERLab Sample ID: AD204213Level (low/med): LOWDate Received: 3/15/02Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	76.4	B		P
7440-36-0	Antimony	5.6	B		P
7440-38-2	Arsenic	3.9	U		P
7440-39-3	Barium	76.3	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	122000			P
7440-47-3	Chromium	0.90	U		P
7440-48-4	Cobalt	0.70	U		P
7440-50-8	Copper	0.70	U		P
7439-89-6	Iron	2000		X	P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	72200			P
7439-96-5	Manganese	60.9			P
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	18200			P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.90	U		P
7439-97-6	Mercury	0.232	B		CV
7440-23-5	Sodium	114000			P
7440-28-0	Thallium	5.3	U		P
7440-62-2	Vanadium	0.70	U		P
7440-66-6	Zinc	3.4	B		P

Color Before: COLORLESSClarity Before: CLEARTexture: NONEColor After: COLORLESSClarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
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NYS DEC

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

A4623B

Contract: NY00-096

Code: STL BFLO

Case No.: SH901

SAS No.:

SDG NO.: 0315

Matrix (soil/water): WATER

Lab Sample ID: AD204214

Level (low/med): LOW

Date Received: 3/15/02

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1150			P
7440-36-0	Antimony	3.9	U		P
7440-38-2	Arsenic	4.0	B		P
7440-39-3	Barium	558			P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	226000			P
7440-47-3	Chromium	6.7	B		P
7440-48-4	Cobalt	5.2	B		P
7440-50-8	Copper	2.4	B		P
7439-89-6	Iron	46900		Z	P
7439-92-1	Lead	7.3			P
7439-95-4	Magnesium	66400			P
7439-96-5	Manganese	758			P
7440-02-0	Nickel	5.4	B		P
7440-09-7	Potassium	62300			P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.90	U		P
7439-97-6	Mercury	0.032	B		CV
7440-23-5	Sodium	101000			P
7440-28-0	Thallium	5.3	U		P
7440-62-2	Vanadium	3.8	B		P
7440-66-6	Zinc	36.1			P

Color Before: YELLOW

Clarity Before: CLEAR

Texture: NONE

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

NYS DEC

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## INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

A4624A

Contract: NY00-096Lab Code: STL BFLOCase No.: SH901

SAS No.: \_\_\_\_\_

SDG NO.: 0315Matrix (soil/water): WATERLab Sample ID: AD204215Level (low/med): LOWDate Received: 3/15/02Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	69.4	B		P
7440-36-0	Antimony	5.2	B		P
7440-38-2	Arsenic	3.9	U		P
7440-39-3	Barium	92.3	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	59700			P
7440-47-3	Chromium	0.90	U		P
7440-48-4	Cobalt	0.70	U		P
7440-50-8	Copper	0.70	U		P
7439-89-6	Iron	506		E	P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	54800			P
7439-96-5	Manganese	54.8			P
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	61200			P
7782-49-2	Selenium	6.9			P
7440-22-4	Silver	0.94	B		P
7439-97-6	Mercury	0.058	B		CV
7440-23-5	Sodium	229000			P
7440-28-0	Thallium	6.9	B		P
7440-62-2	Vanadium	0.70	U		P
7440-66-6	Zinc	5.4	B		P

Color Before: COLORLESSClarity Before: CLEARTexture: NONEColor After: COLORLESSClarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

A4624B

tract: NY00-096

Code: STL BFLO

Case No.: SH901

SAS No.:

SDG NO.: 0315

rix (soil/water): WATER

Lab Sample ID: AD204216

el (low/med): LOW

Data Received: 3/15/02

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	82.6	B		P
7440-36-0	Antimony	4.7	B		P
7440-38-2	Arsenic	3.9	U		P
7440-39-3	Barium	556			P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	253000			P
7440-47-3	Chromium	5.8	B		P
7440-48-4	Cobalt	3.8	B		P
7440-50-8	Copper	0.70	U		P
7439-89-6	Iron	48100		E	P
7439-92-1	Lead	2.4	B		P
7439-95-4	Magnesium	85000			P
7439-96-5	Manganese	728			P
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	70100			P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	1.1	B		P
7439-97-6	Mercury	0.032	U		CV
7440-23-5	Sodium	118000			P
7440-28-0	Thallium	5.3	U		P
7440-62-2	Vanadium	1.3	B		P
7440-66-6	Zinc	10.6	B		P

lor Before: YELLOW      Clarity Before: CLEAR      Texture: NONE

lor After: YELLOW      Clarity After: CLEAR      Artifacts:

ments:

## INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

A4625A

Contract: NY00-096

Lab Code: STL BFLO

Case No.: SH901

SAS No.:

SDG NO.: 0315

Matrix (soil/water): WATER

Lab Sample ID: AD204217

Level (low/med): LOW

Date Received: 3/15/02

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	140	B		P
7440-36-0	Antimony	5.3	B		P
7440-38-2	Arsenic	3.9	U		P
7440-39-3	Barium	66.3	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.37	B		P
7440-70-2	Calcium	121000			P
7440-47-3	Chromium	9.1	B		P
7440-48-4	Cobalt	1.1	B		P
7440-50-8	Copper	0.70	U		P
7439-89-6	Iron	2700		E	P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	106000			P
7439-96-5	Manganese	43.7			P
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	76000			P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.90	U		P
7439-97-6	Mercury	0.032	U		CV
7440-23-5	Sodium	479000			P
7440-28-0	Thallium	5.3	U		P
7440-62-2	Vanadium	1.3	B		P
7440-66-6	Zinc	3.8	B		P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: NONE

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:



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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

A4625B

Contract: NY00-096

Code: STL BFLO

Case No.: SH901

SAS No.:

BDG NO.: 0315

Matrix (soil/water): WATER

Lab Sample ID: AD204218

Level (low/med): LOW

Date Received: 3/15/02

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	90.5	B		P
7440-36-0	Antimony	7.6	B		P
7440-38-2	Arsenic	3.9	U		P
7440-39-3	Barium	615			P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	290000			P
7440-47-3	Chromium	3.1	B		P
7440-48-4	Cobalt	4.4	B		P
7440-50-8	Copper	0.70	U		P
7439-89-6	Iron	57700		E	P
7439-92-1	Lead	2.7	B		P
7439-95-4	Magnesium	77600			P
7439-96-5	Manganese	772			P
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	52200			P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.99	B		P
7439-97-6	Mercury	0.032	B		CV
7440-23-5	Sodium	73000			P
7440-28-0	Thallium	5.3	U		P
7440-62-2	Vanadium	0.82	B		P
7440-66-6	Zinc	10.6	B		P

Color Before: COLORLESS      Clarity Before: CLEAR      Texture: NONE

Color After: COLORLESS      Clarity After: CLEAR      Artifacts:

Comments:

NYS DEC

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## INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

A4626A

Contract: NY00-096Lab Code: STL BFLOCase No.: SH901

SAS No.: \_\_\_\_\_

SDG NO.: 0315Matrix (soil/water): WATERLab Sample ID: AD204219Level (low/med): LOWDate Received: 3/15/02Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	40.9	B		P
7440-36-0	Antimony	4.8	B		P
7440-38-2	Arsenic	3.9	U		P
7440-39-3	Barium	78.8	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	58800			P
7440-47-3	Chromium	0.90	U		P
7440-48-4	Cobalt	0.70	U		P
7440-50-8	Copper	0.70	U		P
7439-89-6	Iron	48.3	B	E	P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	51200			P
7439-96-5	Manganese	42.9			P
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	28000			P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.90	U		P
7439-97-6	Mercury	0.032	U		CV
7440-23-5	Sodium	119000			P
7440-28-0	Thallium	5.3	U		P
7440-62-2	Vanadium	0.70	U		P
7440-66-6	Zinc	4.9	B		P

Color Before: COLORLESSClarity Before: CLEARTexture: NONEColor After: COLORLESSClarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

A4627A

Contract: NY00-096

Code: STL BFLO

Case No.: SH901

SAS No.:

SDG NO.: 0315

Matrix (soil/water): WATER

Lab Sample ID: AD204220

Level (low/med): LOW

Date Received: 3/15/02

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	37.0	B		P
7440-36-0	Antimony	3.9	U		P
7440-38-2	Arsenic	3.9	U		P
7440-39-3	Barium	54.2	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	94200			P
7440-47-3	Chromium	0.90	U		P
7440-48-4	Cobalt	0.70	U		P
7440-50-8	Copper	0.70	U		P
7439-89-6	Iron	2690		E	P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	15000			P
7439-96-5	Manganese	118			P
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	5800			P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.90	U		P
7439-97-6	Mercury	0.032	U		CV
7440-23-5	Sodium	14800			P
7440-28-0	Thallium	5.3	U		P
7440-62-2	Vanadium	0.70	U		P
7440-66-6	Zinc	3.6	B		P

Color Before: COLORLESS      Clarity Before: CLEAR      Texture: NONE

Color After: COLORLESS      Clarity After: CLEAR      Artifacts:

Comments:

NYS DEC

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## INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

A4628A

Contract: NY00-096Lab Code: STL BFLOCase No.: SH901

SAS No.: \_\_\_\_\_

SDG NO.: 0315Matrix (soil/water): WATERLab Sample ID: AD204221Level (low/med): LOWDate Received: 3/15/02Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	119	B		P
7440-36-0	Antimony	10.3	B		P
7440-38-2	Arsenic	73.1			P
7440-39-3	Barium	340			P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	334000			P
7440-47-3	Chromium	5.0	B		P
7440-48-4	Cobalt	3.5	B		P
7440-50-8	Copper	0.70	U		P
7439-89-6	Iron	65.6	B	E	P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	192000			P
7439-96-5	Manganese	193			P
7440-02-0	Nickel	7.9	B		P
7440-09-7	Potassium	53900			P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.95	B		P
7439-97-6	Mercury	0.032	U		CV
7440-23-5	Sodium	1420000			P
7440-28-0	Thallium	6.1	B		P
7440-62-2	Vanadium	6.6	B		P
7440-66-6	Zinc	8.0	B		P

Color Before: YELLOWClarity Before: CLEARTexture: NONEColor After: YELLOWClarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
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NYS DEC

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## INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

A4629A

Contract: NY00-096

Code: STL BFLO

Case No.: SH901

SAS No.:

SDG NO.: 0315

Matrix (soil/water): WATER

Lab Sample ID: AD204222

Level (low/med): LOW

Date Received: 3/15/02

Concentration Units (ng/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	276			P
7440-36-0	Antimony	3.9	U		P
7440-38-2	Arsenic	3.9	U		P
7440-39-3	Barium	217			P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	134000			P
7440-47-3	Chromium	1.7	B		P
7440-48-4	Cobalt	0.70	U		P
7440-50-8	Copper	1.4	B		P
7439-89-6	Iron	724	X		P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	35500			P
7439-96-5	Manganese	97.8			P
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	3850	B		P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	1.6	B		P
7439-97-6	Mercury	0.032	U		CV
7440-23-5	Sodium	32500			P
7440-28-0	Thallium	5.3	U		P
7440-62-2	Vanadium	1.4	B		P
7440-66-6	Zinc	11.8	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: NONE

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

NYS DEC  
 NYS DEC ASP Contract #C004154 - Region 9  
 Wet Chemistry Analysis

C00136

Client Sample No

A4622B

Lab Name: STL Buffalo

Contract: C004154

Lab Code: REONV

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix (soil/water): WATER

Lab Sample ID: A2244201

% Solids: 0.0

Date Samp/Recv: 03/15/2002 03/15/20

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Anal De
Cyanide - Total	MG/L	0.010	U			CLP-WC	03/15

Comments:

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NYS DEC  
 NYS DEC ASP Contract #C004154 - Region 9  
 Wet Chemistry Analysis

000137

Client Sample No.

A4623A

Name: STL Buffalo

Contract: C004154

Code: RECNY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix (soil/water): WATER

Lab Sample ID: A2244202

Solids: 0.0

Date Samp/Recv: 03/15/2002 03/15/2002

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Ammonide - Total	MG/L	0.010	U			CLP-WC	03/19/2002

Comments:

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

NYS DEC  
NYS DEC ASP Contract #C004154 - Region 9  
Wet Chemistry Analysis

0001

Client Sample N

A4623B

Lab Name: STL Buffalo

Contract: C004154

Lab Code: REOVY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix (soil/water): WATER

Lab Sample ID: A2244203

% Solids: 0.0

Date Samp/Recv: 03/15/2002 03/15/2

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Anal D
Cyanide - Total	MG/L	0.010	U			CLP-WC	03/15

Comments:

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NYS DEC  
 NYS DEC ASP Contract #C004154 - Region 9  
 Wet Chemistry Analysis

000179

Client Sample No.

A4624A

Name: STL Buffalo

Contract: C004154

Code: RECN

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix (soil/water): WATER

Lab Sample ID: A2244204

Solids: 0.0

Date Samp/Recv: 03/15/2002 03/15/2002

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Ammonide - Total	MG/L	0.010	U			CLP-WC	03/19/2002

Comments:

NYS DEC  
NYS DEC ASP Contract #C004154 - Region 9  
Wet Chemistry Analysis

00013

Client Sample No

A4624B

Lab Name: SIL Buffalo

Contract: C004154

Lab Code: RECNV

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix (soil/water): WATER

Lab Sample ID: A2244205

% Solids: 0.0

Date Samp/Recv: 03/15/2002 03/15/2002

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Anal. Date
Cyanide - Total	MG/L	0.010	U			CLP-WC	03/15/02

Comments:

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NYS DEC  
NYS DEC ASP Contract #C004154 - Region 9  
Wet Chemistry Analysis

000131

Client Sample No.

A4625A

Name: STL Buffalo

Contract: C004154

Code: RECN

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix (soil/water): WATER

Lab Sample ID: A2244206

Solids: 0.0

Date Samp/Recv: 03/15/2002 03/15/2002

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Ammonide - Total	MG/L	0.010	U			CLP-WC	03/19/2002

Comments:

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

NYS DEC  
 NYS DEC ASP Contract #C004154 - Region 9  
 Wet Chemistry Analysis

00013

Client Sample No

A4625B

Lab Name: SIL Buffalo

Contract: C004154

Lab Code: REONY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix (soil/water): WATER

Lab Sample ID: A2244207

% Solids: 0.0

Date Samp/Recv: 03/15/2002 03/15/2002

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Anal De
Cyanide - Total	MG/L	0.010	U			CLP-WC	03/15
Total Recoverable Petroleum Hydrocarbons	MG/L	1.0	U			418.1	03/25

Comments:

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NYS DEC  
 NYS DEC ASP Contract #C004154 - Region 9  
 Wet Chemistry Analysis

000133

Client Sample No.

A4626A

Lab Name: STL Buffalo

Contract: C004154

Lab Code: REONY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix (soil/water): WATER

Lab Sample ID: A2244208

Solids: 0.0

Date Samp/Recv: 03/15/2002 03/15/2002

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/L	0.010	U			CLP-WC	03/19/2002
Total Recoverable Petroleum Hydrocarbons	MG/L	2.6				418.1	03/29/2002

Comments:

NYS DEC  
 NYS DEC ASP Contract #C004154 - Region 9  
 Wet Chemistry Analysis

000134

Client Sample No.

A4627A

Lab Name: STL Buffalo

Contract: C004154

Lab Code: REQNY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix (soil/water): WATER

Lab Sample ID: A2244209

% Solids: 0.0

Date Samp/Recv: 03/15/2002 03/15/2002

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Anal Date
Cyanide - Total	MG/L	0.010	U			CLP-WC	03/15/02

Comments:

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NYS DEC  
NYS DEC ASP Contract #C004154 - Region 9  
Wet Chemistry Analysis

000135

Client Sample No.

A4628A

Location Name: STL Buffalo

Contract: C004154

Lab Code: REONY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix (soil/water): WATER

Lab Sample ID: A2244210

Solids: 0.0

Date Samp/Recv: 03/15/2002 03/15/2002

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/L	0.010	U			CLP-WC	03/19/2002

Comments:

NYS DEC  
 NYS DEC ASP Contract #C004154 - Region 9  
 Wet Chemistry Analysis

0004154

Client Sample No

A4629A

Lab Name: SIL Buffalo

Contract: C004154

Lab Code: RECN

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0315

Matrix (soil/water): WATER

Lab Sample ID: A2244211

% Solids: 0.0

Date Samp/Recv: 03/15/2002 03/15/2002

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Anal De
Cyanide - Total	MG/L	0.010	U			CLP-WC	03/15

Comments:

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SEVERN  
TRENT  
SERVICES

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#: A02-2928

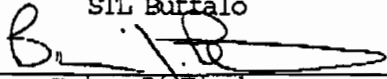
STL Project#: NY1A8770.9  
SDG#: 0328

Site Name: NYS DEC ASP Contract #C004154 - Region 9  
Task: CASE SI902


Mr. John Ryan  
NYSDEC  
625 Broadway - 4th Floor  
Albany, NY 12233

CC: Mr. Dave Szymanski

STL Buffalo



Brian J. Fischer  
Project Manager



Susan L. Mazur  
Laboratory Director

04/30/2002

This report contains 2517 pages which are individually numbered.

## NON-CONFORMANCE SUMMARY

000004

Job#: A02-2928STL Project#: NY1A8770.9SDG#: 0328Site Name: NYS DEC ASP Contract #C004154 - Region 9General 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 and Dissolved Oxygen 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

A02-2928

Samples were received in good condition.

GC/MS Volatile Data

Samples A462L1, A462L2 and A462L3 had a pH greater than 2. All other samples were preserved to a pH less than 2.

The analytes Methylene Chloride and Toluene were detected in the Method Blank, VELK75, 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.

The analyte Acetone was detected in the Method Blank, VELK75, at a level above the project established reporting limit. ASP protocol allows for the concentration of Acetone to be 5 times greater than the project reporting limits before corrective action is required. As a result, no corrective action was required.

The analytes Toluene, Bromomethane and Methylene Chloride were detected in sample Volatile Holding Blank below the project established reporting limit.

The analyte Methylene Chloride was detected in the Method Blank, VELK82, 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.

000006

The analyte Copper was detected in the Method Blank, A2B0292202, at a level above the project established reporting limit. All samples were non-detect for this analyte, therefore, no corrective action was necessary.

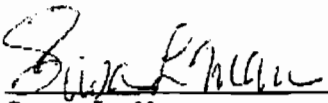
Wet Chemistry Data

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.

"I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and electronic deliverable has been authorized by the Laboratory Director or her designee, as verified by the following signature."

  
\_\_\_\_\_  
Susan L. Mazur  
Laboratory Director

5/2/02  
\_\_\_\_\_  
Date

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

000007

SAMPLE 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	WATER QUALITY
A4620F	A2292802	ASP00	ASP00	-	ASP00	ASP00	ASP00
A462L1	A2292801	ASP00	ASP00	-	ASP00	ASP00	ASP00
A462L2	A2292803	ASP00	ASP00	-	ASP00	ASP00	ASP00
A462L3	A2292805	ASP00	ASP00	-	ASP00	ASP00	ASP00
A462S2	A2292804	ASP00	ASP00	-	ASP00	ASP00	ASP00
A462S3	A2292806	ASP00	ASP00	-	ASP00	ASP00	ASP00

NYSDEC-1

000008

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY  
VOLATILE ANALYSIS

NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
4620F	WATER	03/28/2002	03/28/2002	-	04/07/2002
462L1	WATER	03/28/2002	03/28/2002	-	04/07/2002
462L2	WATER	03/28/2002	03/28/2002	-	04/07/2002
462L3	WATER	03/28/2002	03/28/2002	-	04/07/2002
462S2	SOIL	03/28/2002	03/28/2002	-	04/07/2002
462S3	SOIL	03/28/2002	03/28/2002	-	04/07/2002

NYSDEC-2

000009

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE 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
A4620F	WATER	03/28/2002	03/28/2002	04/02/2002	04/08/2002
A462L1	WATER	03/28/2002	03/28/2002	04/02/2002	04/08/2002
A462L2	WATER	03/28/2002	03/28/2002	04/02/2002	04/08/2002
A462L3	WATER	03/28/2002	03/28/2002	04/02,10/2002	04/08,11/2002
A462S2	SOIL	03/28/2002	03/28/2002	04/02/2002	04/18/2002
A462S3	SOIL	03/28/2002	03/28/2002	04/02/2002	04/18/2002

NYSDEC-3

000010

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY  
PESTICIDE/PCB ANALYSIS

NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
520F	WATER	03/28/2002	03/28/2002	04/01/2002	04/17/2002
52L1	WATER	03/28/2002	03/28/2002	04/01/2002	04/17/2002
52L2	WATER	03/28/2002	03/28/2002	04/01/2002	04/17/2002
52L3	WATER	03/28/2002	03/28/2002	04/01/2002	04/17/2002
52S2	SOIL	03/28/2002	03/28/2002	04/02/2002	04/17/2002
52S3	SOIL	03/28/2002	03/28/2002	04/02/2002	04/17/2002

NYSDEC-4

000011

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
A4620F	WATER	T ME	03/28/2002	04/11,16/2002	04/17,18,19,25/2002
A462L1	WATER	T ME	03/28/2002	04/11,16/2002	04/17,18,19/2002
A462L2	WATER	T ME	03/28/2002	04/11,16/2002	04/17,18,19/2002
A462L3	WATER	T ME	03/28/2002	04/11,16/2002	04/17,18,19/2002
A462S2	SOIL	TM	03/28/2002	04/08,09/2002	04/08,18,29/2002
A462S3	SOIL	TM	03/28/2002	04/08,09/2002	04/08,18,29/2002

NYSDEC-5



NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

000012

SAMPLE PREPARATION AND ANALYSIS SUMMARY  
ORGANIC ANALYSIS

NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILIARY CLEAN UP	DIL/CONC FACTOR
620F	WATER	ASP00	CONT/SEPF	AS REQUIRED	AS REQUIRED
62L1	WATER	ASP00	CONT/SEPF	AS REQUIRED	AS REQUIRED
62L2	WATER	ASP00	CONT/SEPF	AS REQUIRED	AS REQUIRED
62L3	WATER	ASP00	CONT/SEPF	AS REQUIRED	AS REQUIRED
62S2	SOIL	ASP00	CONT/SONC	AS REQUIRED	AS REQUIRED
62S3	SOIL	ASP00	CONT/SONC	AS REQUIRED	AS REQUIRED

NYSDEC-6

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

000013

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
A4620F	WATER	ASP00	ASP00	AS REQUIRED	AS REQUIRED
A462L1	WATER	ASP00	ASP00	AS REQUIRED	AS REQUIRED
A462L2	WATER	ASP00	ASP00	AS REQUIRED	AS REQUIRED
A462L3	WATER	ASP00	ASP00	AS REQUIRED	AS REQUIRED
A462S2	SOIL	ASP00	ASP00	AS REQUIRED	AS REQUIRED
A462S3	SOIL	ASP00	ASP00	AS REQUIRED	AS REQUIRED

NYSDEC-7

000014

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
A462L1	A2292801	EPA VOA	5.00	003
A462L1	A2292801	Potassium - Total	5.00	002
A462L1	A2292801	Sodium - Total	5.00	002
A462L1 DL	A2292801DL	EPA SVOA	5.00	008
A4620F	A2292802	EPA P/PCB	2.00	002
A4620F	A2292802	EPA VOA	5.00	003
A4620F	A2292802	Potassium - Total	10.00	002
A4620F	A2292802	Sodium - Total	10.00	002
A4620F DL	A2292802DL	EPA SVOA	5.00	008
A462L2	A2292803	EPA VOA	5.00	003
A462L3	A2292805	EPA VOA	5.00	003
A462L3	A2292805	Potassium - Total	5.00	002
A462L3	A2292805	Sodium - Total	5.00	002

tion Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - non-target compounds (TICS) exceeded 5X the total response of one of the Internal Standards
- 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

Date: 04/30/2002  
Time: 17:10:19

Dilution Log w/Code Information  
For Job A02-2928

Page:  
Rept:

000015

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
A462L1	A2292801	EPA VOA	5.00	003
A462L1	A2292801	Potassium - Total	5.00	002
A462L1	A2292801	Sodium - Total	5.00	002
A462L1 DL	A2292801DL	EPA SVOA	5.00	008
A4620F	A2292802	EPA P/PCB	2.00	002
A4620F	A2292802	EPA VOA	5.00	003
A4620F	A2292802	Potassium - Total	10.00	002
A4620F	A2292802	Sodium - Total	10.00	002
A4620F DL	A2292802DL	EPA SVOA	5.00	008
A462L2	A2292803	EPA VOA	5.00	003
A462L3	A2292805	EPA SVOA	5.00	008
A462L3	A2292805	EPA VOA	5.00	003
A462L3	A2292805	Potassium - Total	5.00	002
A462L3	A2292805	Sodium - Total	5.00	002

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - non-target compounds (TICS) exceeded 5X the total response of one of the Internal Standards
- 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 COMMENT PAGE

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 a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. 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.
- K Indicates the post digestion spike recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- M Indicates duplicate injection results exceeded quality control limits.
- W Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
- 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 analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASPOO VOLATILES - W  
 ANALYSIS DATA SHEET

000017

Client

A4620F

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECONY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0328

Matrix: (soil/water) WATER

Lab Sample ID: A2292802

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Q2603.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28/2002

% Moisture: not dec. \_\_\_\_\_ Heated Purge: N

Date Analyzed: 04/07/2002

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 5.00

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	-----Chloromethane		50	U
74-83-9	-----Bromomethane		50	U
75-01-4	-----Vinyl chloride		50	U
75-00-3	-----Chloroethane		50	U
75-09-2	-----Methylene chloride		10	BJ
67-64-1	-----Acetone		49	J
75-15-0	-----Carbon disulfide		50	U
75-35-4	-----1,1-Dichloroethene		50	U
75-34-3	-----1,1-Dichloroethane		50	U
67-66-3	-----Chloroform		50	U
107-06-2	-----1,2-Dichloroethane		50	U
78-93-3	-----2-Butanone		25	J
71-55-6	-----1,1,1-Trichloroethane		50	U
56-23-5	-----Carbon tetrachloride		50	U
75-27-4	-----Bromodichloromethane		50	U
78-87-5	-----1,2-Dichloropropane		50	U
10061-01-5	----cis-1,3-Dichloropropene		50	U
79-01-6	-----Trichloroethene		50	U
124-48-1	-----Dibromochloromethane		50	U
79-00-5	-----1,1,2-Trichloroethane		50	U
71-43-2	-----Benzene		50	U
10061-02-6	----trans-1,3-Dichloropropene		50	U
75-25-2	-----Bromoform		50	U
108-10-1	-----4-Methyl-2-pentanone		50	U
591-78-6	-----2-Hexanone		50	U
127-18-4	-----Tetrachloroethene		50	U
108-88-3	-----Toluene		62	U
79-34-5	-----1,1,2,2-Tetrachloroethane		50	U
108-90-7	-----Chlorobenzene		50	U
100-41-4	-----Ethylbenzene		14	J
100-42-5	-----Styrene		50	U
1330-20-7	-----Xylene, Total		130	U
75-71-8	-----Dichlorodifluoromethane		50	U
75-69-4	-----Trichlorofluoromethane		50	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASPOO VOLATILES - W  
 ANALYSIS DATA SHEET

000018

Client No.

A4620F

Name: STL Buffalo Contract: C004154  
 Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328  
 Matrix: (soil/water) WATER Lab Sample ID: A2292802  
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q2603.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002  
 Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 04/07/2002  
 Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.00  
 Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
76-13-1-----	1,1,2-Trichloro-1,2,2-Trifluoroethane	50	U	
156-60-5-----	trans-1,2-Dichloroethene	50	U	
1634-04-4-----	Methyl tert-butyl ether	29	J	
156-59-2-----	cis-1,2-Dichloroethene	50	U	
110-82-7-----	Cyclohexane	50	U	
108-87-2-----	Methylcyclohexane	50	U	
106-93-4-----	1,2-Dibromoethane (Ethylene dibromide)	50	U	
98-82-8-----	Isopropylbenzene	50	U	
541-73-1-----	1,3-Dichlorobenzene	50	U	
106-46-7-----	1,4-Dichlorobenzene	50	U	
95-50-1-----	1,2-Dichlorobenzene	50	U	
96-12-8-----	1,2-Dibromo-3-chloropropane	50	U	
120-82-1-----	1,2,4-Trichlorobenzene	50	U	
79-20-9-----	Methyl Acetate	50	U	

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000019

Client

A4620F

Lab Name: STL Buffalo

Contract: C004154

Lab Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) WATER

Lab Sample ID: A2292802

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 02603.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 04/07/2002

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 5.00

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 4

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

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	1.70	500	J
2. 64-17-5	ETHANOL	2.17	420	JN
3.	ETHYLMETHYLBENZENE DER.	8.60	74	J
4.	TRIMETHYLBENZENE ISOMER	9.09	83	J



NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

000020

Client No.

A462L1

Name: STL Buffalo Contract: C004154  
 Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) WATER Lab Sample ID: A2292801  
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q2602.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002  
 Disturbance: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 04/07/2002  
 Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.00  
 Inj. Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	-----Chloromethane		50	U
74-83-9	-----Bromomethane		5	J
75-01-4	-----Vinyl chloride		50	U
75-00-3	-----Chloroethane		52	
75-09-2	-----Methylene chloride		10	BJ
67-64-1	-----Acetone		50	U
75-15-0	-----Carbon disulfide		50	U
75-35-4	-----1,1-Dichloroethene		50	U
75-34-3	-----1,1-Dichloroethane		50	U
67-66-3	-----Chloroform		50	U
107-06-2	-----1,2-Dichloroethane		50	U
78-93-3	-----2-Butanone		50	U
71-55-6	-----1,1,1-Trichloroethane		50	U
56-23-5	-----Carbon tetrachloride		50	U
75-27-4	-----Bromodichloromethane		50	U
78-87-5	-----1,2-Dichloropropane		50	U
10061-01-5	----cis-1,3-Dichloropropene		50	U
79-01-6	-----Trichloroethene		50	U
124-48-1	-----Dibromochloromethane		50	U
79-00-5	-----1,1,2-Trichloroethane		50	U
71-43-2	-----Benzene		19	J
10061-02-6	----trans-1,3-Dichloropropene		50	U
75-25-2	-----Bromoform		50	U
108-10-1	-----4-Methyl-2-pentanone		50	U
591-78-6	-----2-Hexanone		50	U
127-18-4	-----Tetrachloroethene		50	U
108-88-3	-----Toluene		7	J
79-34-5	-----1,1,2,2-Tetrachloroethane		50	U
108-90-7	-----Chlorobenzene		51	
100-41-4	-----Ethylbenzene		50	U
100-42-5	-----Styrene		50	U
1330-20-7	-----Xylene, Total		35	J
75-71-8	-----Dichlorodifluoromethane		50	U
75-69-4	-----Trichlorofluoromethane		50	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

00002

Client

A462L1

Lab Name: STL Buffalo

Contract: C004154

Lab Code: REONY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0328

Matrix: (soil/water) WATER

Lab Sample ID: A2292801

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 02602.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28/2

% Moisture: not dec. \_\_\_\_\_ Heated Purge: N

Date Analyzed: 04/07/2002

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 5.00

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
76-13-1-----	1,1,2-Trichloro-1,2,2-Trifluoroethane		50	U
156-60-5-----	trans-1,2-Dichloroethane		50	U
1634-04-4-----	Methyl tert-butyl ether		50	U
156-59-2-----	cis-1,2-Dichloroethene		50	U
110-82-7-----	Cyclohexane		50	U
108-87-2-----	Methylcyclohexane		50	U
106-93-4-----	1,2-Dibromoethane (Ethylene dibromide)		50	U
98-82-8-----	Isopropylbenzene		50	U
541-73-1-----	1,3-Dichlorobenzene		50	U
106-46-7-----	1,4-Dichlorobenzene		7	J
95-50-1-----	1,2-Dichlorobenzene		50	U
96-12-8-----	1,2-Dibromo-3-chloropropane		50	U
120-82-1-----	1,2,4-Trichlorobenzene		50	U
79-20-9-----	Methyl Acetate		50	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000022

Client No.

A462L1

Name: STL Buffalo Contract: C004154

Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) WATER Lab Sample ID: A2292801

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q2602.RR

Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002

Moisture: not dec. \_\_\_\_\_ Date Analyzed: 04/07/2002

Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.00

Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

Number TICs found: 0

CAS NO.	Compound Name	RT	Est. Conc.	Q

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

000023

Client

A462L2

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) WATER Lab Sample ID: A2292803

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q2604.RR

Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002

% Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 04/07/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
74-87-3	Chloromethane		50	U
74-83-9	Bromomethane		50	U
75-01-4	Vinyl chloride		50	U
75-00-3	Chloroethane		12	J
75-09-2	Methylene chloride		12	BJ
67-64-1	Acetone		10	J
75-15-0	Carbon disulfide		50	U
75-35-4	1,1-Dichloroethene		50	U
75-34-3	1,1-Dichloroethane		50	U
67-66-3	Chloroform		50	U
107-06-2	1,2-Dichloroethane		50	U
78-93-3	2-Butanone		50	U
71-55-6	1,1,1-Trichloroethane		50	U
56-23-5	Carbon tetrachloride		50	U
75-27-4	Bromodichloromethane		50	U
78-87-5	1,2-Dichloropropane		50	U
10061-01-5	cis-1,3-Dichloropropene		50	U
79-01-6	Trichloroethene		50	U
124-48-1	Dibromochloromethane		50	U
79-00-5	1,1,2-Trichloroethane		50	U
71-43-2	Benzene		50	U
10061-02-6	trans-1,3-Dichloropropene		50	U
75-25-2	Bromoform		50	U
108-10-1	4-Methyl-2-pentanone		50	U
591-78-6	2-Hexanone		50	U
127-18-4	Tetrachloroethene		50	U
108-88-3	Toluene		50	U
79-34-5	1,1,2,2-Tetrachloroethane		50	U
108-90-7	Chlorobenzene		16	J
100-41-4	Ethylbenzene		50	U
100-42-5	Styrene		50	U
1330-20-7	Xylene, Total		50	U
75-71-8	Dichlorodifluoromethane		50	U
75-69-4	Trichlorofluoromethane		50	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASPOO VOLATILES - W  
 ANALYSIS DATA SHEET

000024

Client No.

A462L2

Name: STL Buffalo Contract: C004154  
 Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) WATER Lab Sample ID: A2292803  
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 02604.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002  
 Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 04/07/2002  
 Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.00  
 Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

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

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
76-13-1-----	1,1,2-Trichloro-1,2,2-Trifluoroethane	50	U	
156-60-5-----	trans-1,2-Dichloroethene	50	U	
1634-04-4-----	Methyl tert-butyl ether	50	U	
156-59-2-----	cis-1,2-Dichloroethene	50	U	
110-82-7-----	Cyclohexane	50	U	
108-87-2-----	Methylcyclohexane	50	U	
106-93-4-----	1,2-Dibromoethane (Ethylene dibromide)	50	U	
98-82-8-----	Isopropylbenzene	50	U	
541-73-1-----	1,3-Dichlorobenzene	50	U	
106-46-7-----	1,4-Dichlorobenzene	50	U	
95-50-1-----	1,2-Dichlorobenzene	50	U	
96-12-8-----	1,2-Dibromo-3-chloropropane	50	U	
120-82-1-----	1,2,4-Trichlorobenzene	50	U	
79-20-9-----	Methyl Acetate	50	U	

NYS DEC  
NYS DEC ASP CONTRACT #C004154 - REGION 9  
NYSDEC - EPA ASP00 VOLATILES - W  
TENTATIVELY IDENTIFIED COMPOUNDS

000025

Client

A462L2

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECNY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0328

Matrix: (soil/water) WATER

Lab Sample ID: A2292803

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 02604.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 04/07/2002

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 5.00

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

000026

Client No.

A462L3

Name: STL Buffalo Contract: C004154  
 Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) WATER Lab Sample ID: A2292805  
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q2605.FR  
 Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002  
 Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 04/07/2002  
 Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.00  
 Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	50		U
74-83-9	Bromomethane	50		U
75-01-4	Vinyl chloride	50		U
75-00-3	Chloroethane	5		J
75-09-2	Methylene chloride	11		BJ
67-64-1	Acetone	11		J
75-15-0	Carbon disulfide	50		U
75-35-4	1,1-Dichloroethene	50		U
75-34-3	1,1-Dichloroethane	50		U
67-66-3	Chloroform	50		U
107-06-2	1,2-Dichloroethane	50		U
78-93-3	2-Butanone	50		U
71-55-6	1,1,1-Trichloroethane	50		U
56-23-5	Carbon tetrachloride	50		U
75-27-4	Bromodichloromethane	50		U
78-87-5	1,2-Dichloropropane	50		U
10061-01-5	cis-1,3-Dichloropropene	50		U
79-01-6	Trichloroethene	50		U
124-48-1	Dibromochloroethane	50		U
79-00-5	1,1,2-Trichloroethane	50		U
71-43-2	Benzene	8		J
10061-02-6	trans-1,3-Dichloropropene	50		U
75-25-2	Bromoform	50		U
108-10-1	4-Methyl-2-pentanone	50		U
591-78-6	2-Hexanone	50		U
127-18-4	Tetrachloroethene	50		U
108-88-3	Toluene	11		J
79-34-5	1,1,2,2-Tetrachloroethane	50		U
108-90-7	Chlorobenzene	16		J
100-41-4	Ethylbenzene	50		U
100-42-5	Styrene	50		U
1330-20-7	Xylene, Total	50		U
75-71-8	Dichlorodifluoromethane	50		U
75-69-4	Trichlorofluoromethane	50		U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

000027

Client

A462L3

Lab Name: SIL Buffalo Contract: C004154

Lab Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) WATER Lab Sample ID: A2292805

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q2605.RR

Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/

% Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 04/07/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.00

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L Q
76-13-1-----	1,1,2-Trichloro-1,2,2-Trifluoroethane	50	U
156-60-5-----	trans-1,2-Dichloroethene	50	U
1634-04-4-----	Methyl tert-butyl ether	50	U
156-59-2-----	cis-1,2-Dichloroethene	50	U
110-82-7-----	Cyclohexane	50	U
108-87-2-----	Methylcyclohexane	50	U
106-93-4-----	1,2-Dibromoethane (Ethylene dibromide)	50	U
98-82-8-----	Isopropylbenzene	50	U
541-73-1-----	1,3-Dichlorobenzene	50	U
106-46-7-----	1,4-Dichlorobenzene	50	U
95-50-1-----	1,2-Dichlorobenzene	50	U
96-12-8-----	1,2-Dibromo-3-chloropropane	50	U
120-82-1-----	1,2,4-Trichlorobenzene	50	U
79-20-9-----	Methyl Acetate	50	U



NYS DEC  
NYS DEC ASP CONTRACT #C004154 - REGION 9  
NYSDEC - EPA ASP00 VOLATILES - W  
TENTATIVELY IDENTIFIED COMPOUNDS

000028

Client No.

A462L3

Name: STL Buffalo Contract: C004154

Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) WATER

Lab Sample ID: A2292805

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 02605.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28/2002

Moisture: not dec. \_\_\_\_\_

Date Analyzed: 04/07/2002

Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 5.00

1 Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 0

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

CAS NO.	Compound Name	RT	Est. Conc.	Q

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000 - VOLATILES  
 ANALYSIS DATA SHEET

000029

Client

A462S2

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) SOIL Lab Sample ID: A2292804

Sample wt/vol: 5.13 (g/mL) G Lab File ID: P8778.RR

Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2

‡ Moisture: not dec. 25.0 Heated Purge: Y Date Analyzed: 04/07/2002

GC Column: DB-624 ID: 0.25 (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
74-87-3-----	Chloromethane		13	U
74-83-9-----	Bromomethane		13	U
75-01-4-----	Vinyl chloride		13	U
75-00-3-----	Chloroethane		13	U
75-09-2-----	Methylene chloride		11	BJ
67-64-1-----	Acetone		4	BJ
75-15-0-----	Carbon disulfide		13	U
75-35-4-----	1,1-Dichloroethene		13	U
75-34-3-----	1,1-Dichloroethane		13	U
67-66-3-----	Chloroform		13	U
107-06-2-----	1,2-Dichloroethane		13	U
78-93-3-----	2-Butanone		13	U
71-55-6-----	1,1,1-Trichloroethane		13	U
56-23-5-----	Carbon tetrachloride		13	U
75-27-4-----	Bromodichloromethane		13	U
78-87-5-----	1,2-Dichloropropane		13	U
10061-01-5----	cis-1,3-Dichloropropene		13	U
79-01-6-----	Trichloroethene		13	U
124-48-1-----	Dibromochloromethane		13	U
79-00-5-----	1,1,2-Trichloroethane		13	U
71-43-2-----	Benzene		13	U
10061-02-6----	trans-1,3-Dichloropropene		13	U
75-25-2-----	Bromoform		13	U
108-10-1-----	4-Methyl-2-pentanone		13	U
591-78-6-----	2-Hexanone		13	U
127-18-4-----	Tetrachloroethene		13	U
108-88-3-----	Toluene		2	BJ
79-34-5-----	1,1,2,2-Tetrachloroethane		13	U
108-90-7-----	Chlorobenzene		15	
100-41-4-----	Ethylbenzene		13	U
100-42-5-----	Styrene		13	U
1330-20-7-----	Xylene, Total		13	U
76-13-1-----	1,1,2-Trichloro-1,2,2-Trifluoroethane		13	U
156-59-2-----	cis-1,2-Dichloroethene		13	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000 - VOLATILES  
 ANALYSIS DATA SHEET

000030

Client No.

A462S2

Name: STL Buffalo Contract: C004154  
 Code: RCNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) SOIL Lab Sample ID: A2292804  
 Sample wt/vol: 5.13 (g/mL) G Lab File ID: P8778.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002  
 Moisture: not dec. 25.0 Heated Purge: Y Date Analyzed: 04/07/2002  
 Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00  
 Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
156-60-5	trans-1,2-Dichloroethene	13		U
75-71-8	Dichlorodifluoromethane	13		U
75-69-4	Trichlorofluoromethane	13		U
79-20-9	Methyl Acetate	13		U
1634-04-4	Methyl tert-butyl ether	13		U
110-82-7	Cyclohexane	13		U
108-87-2	Methylcyclohexane	13		U
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	13		U
98-82-8	Isopropylbenzene	2		J
541-73-1	1,3-Dichlorobenzene	13		U
106-46-7	1,4-Dichlorobenzene	7		J
95-50-1	1,2-Dichlorobenzene	2		J
96-12-8	1,2-Dibromo-3-chloropropane	13		U
120-82-1	1,2,4-Trichlorobenzene	13		U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000 - VOLATILES  
 TENTATIVELY IDENTIFIED COMPOUNDS

000031

Client

A462S2

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECNY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0328

Matrix: (soil/water) SOIL

Lab Sample ID: A2292804

Sample wt/vol: 5.13 (g/mL) G

Lab File ID: P8778.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/2

% Moisture: not dec. 25.0

Date Analyzed: 04/07/2002

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 1

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

CAS NO.	Compound Name	RT	Est. Conc.	Q
1. 110-54-3	HEXANE	8.51	10	JN

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000 - VOLATILES  
 ANALYSIS DATA SHEET

000032

Client No.

A462S3

Name: STL Buffalo Contract: C004154  
 Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328  
 Matrix: (soil/water) SOIL Lab Sample ID: A2292806  
 Sample wt/vol: 5.13 (g/mL) G Lab File ID: P8779.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002  
 Moisture: not dec. 43.4 Heated Purge: Y Date Analyzed: 04/07/2002  
 Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00  
 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
74-87-3	Chloromethane	17		U
74-83-9	Bromomethane	17		U
75-01-4	Vinyl chloride	17		U
75-00-3	Chloroethane	17		U
75-09-2	Methylene chloride	8		BJ
67-64-1	Acetone	5		BJ
75-15-0	Carbon disulfide	17		U
75-35-4	1,1-Dichloroethene	17		U
75-34-3	1,1-Dichloroethane	17		U
67-66-3	Chloroform	17		U
107-06-2	1,2-Dichloroethane	17		U
78-93-3	2-Butanone	17		U
71-55-6	1,1,1-Trichloroethane	17		U
56-23-5	Carbon tetrachloride	17		U
75-27-4	Bromodichloromethane	17		U
78-87-5	1,2-Dichloropropane	17		U
10061-01-5	cis-1,3-Dichloropropene	17		U
79-01-6	Trichloroethene	17		U
124-48-1	Dibromochloromethane	17		U
79-00-5	1,1,2-Trichloroethane	17		U
71-43-2	Benzene	17		U
10061-02-6	trans-1,3-Dichloropropene	17		U
75-25-2	Bromoform	17		U
108-10-1	4-Methyl-2-pentanone	17		U
591-78-6	2-Hexanone	17		U
127-18-4	Tetrachloroethene	17		U
108-88-3	Toluene	17		U
79-34-5	1,1,2,2-Tetrachloroethane	17		U
108-90-7	Chlorobenzene	3		J
100-41-4	Ethylbenzene	17		U
100-42-5	Styrene	17		U
1330-20-7	Xylene, Total	17		U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	17		U
156-59-2	cis-1,2-Dichloroethene	17		U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000 - VOLATILES  
 ANALYSIS DATA SHEET

000033

Client

A462S3

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECONY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0328

Matrix: (soil/water) SOIL

Lab Sample ID: A2292806

Sample wt/vol: 5.13 (g/mL) G

Lab File ID: P8779.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28/

% Moisture: not dec. 43.4 Heated Purge: Y

Date Analyzed: 04/07/2002

GC Column: DB-624 ID: 0.25 (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
156-60-5	trans-1,2-Dichloroethene		17	U
75-71-8	Dichlorodifluoromethane		17	U
75-69-4	Trichlorofluoromethane		17	U
79-20-9	Methyl Acetate		17	U
1634-04-4	Methyl tert-butyl ether		17	U
110-82-7	Cyclohexane		17	U
108-87-2	Methylcyclohexane		17	U
106-93-4	1,2-Dibromomethane (Ethylene dibromide)		17	U
98-82-8	Isopropylbenzene		2	J
541-73-1	1,3-Dichlorobenzene		17	U
106-46-7	1,4-Dichlorobenzene		2	J
95-50-1	1,2-Dichlorobenzene		17	U
96-12-8	1,2-Dibromo-3-chloropropane		17	U
120-82-1	1,2,4-Trichlorobenzene		17	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000 - VOLATILES  
 TENTATIVELY IDENTIFIED COMPOUNDS

000034

Client No.

A462S3

Name: SIL Buffalo Contract: C004154

Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

ix: (soil/water) SOIL Lab Sample ID: A2292806

le wt/vol: 5.13 (g/mL) G Lab File ID: P8779.RR

l: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002

isture: not dec. 43.4 Date Analyzed: 04/07/2002

olumn: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

er TICs found: 1 CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q
1. 110-54-3	HEXANE	8.50	12	JN

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

000035

Client

TRIP BLANK

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) WATER Lab Sample ID: A2292808

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q2600.RR

Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002

% Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 04/07/2002

GC Column: DB-624 ID: 0.25 (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
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		1	J
75-01-4	Vinyl chloride		10	U
75-00-3	Chloroethane		10	U
75-09-2	Methylene chloride		2	BJ
67-64-1	Acetone		10	U
75-15-0	Carbon disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
124-48-1	Dibromochloromethane		10	U
79-00-5	1,1,2-Trichloroethane		10	U
71-43-2	Benzene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-88-3	Toluene		2	J
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene, Total		10	U
75-71-8	Dichlorodifluoromethane		10	U
75-69-4	Trichlorofluoromethane		10	U



NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - EPA ASP00 VOLATILES - W  
 ANALYSIS DATA SHEET

000036

Client No.

TRIP BLANK

Name: STL Buffalo Contract: C004154  
 Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328  
 Matrix: (soil/water) WATER Lab Sample ID: A2292808  
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: Q2600.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002  
 Moisture: not dec. \_\_\_\_\_ Heated Purge: N Date Analyzed: 04/07/2002  
 Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00  
 Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
76-13-1-----	1,1,2-Trichloro-1,2,2-Trifluoroethane	10		U
156-60-5-----	trans-1,2-Dichloroethene	10		U
1634-04-4-----	Methyl tert-butyl ether	10		U
156-59-2-----	cis-1,2-Dichloroethene	10		U
110-82-7-----	Cyclohexane	10		U
108-87-2-----	Methylcyclohexane	10		U
106-93-4-----	1,2-Dibromoethane (Ethylene dibromide)	10		U
98-82-8-----	Isopropylbenzene	10		U
541-73-1-----	1,3-Dichlorobenzene	10		U
106-46-7-----	1,4-Dichlorobenzene	10		U
95-50-1-----	1,2-Dichlorobenzene	10		U
96-12-8-----	1,2-Dibromo-3-chloropropane	10		U
120-82-1-----	1,2,4-Trichlorobenzene	10		U
79-20-9-----	Methyl Acetate	10		U

NYS DEC  
NYS DEC ASP CONTRACT #C004154 - REGION 9  
NYSDEC - EPA ASP00 VOLATILES - W  
TENTATIVELY IDENTIFIED COMPOUNDS

000037

Client

TRIP BLANK

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) WATER

Lab Sample ID: A2292808

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: Q2600.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28/2002

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 04/07/2002

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 0

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

CAS NO.	Compound Name	RT	Est. Conc.	Q

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASPOO - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000038

Client No.

A4620F

Name: STL Buffalo Contract: C004154  
 Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328  
 Matrix: (soil/water) WATER Lab Sample ID: A2292802  
 Sample wt/vol: 1040.0 (g/mL) ML Lab File ID: Z51103.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002  
 Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 04/02/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/08/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 6.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	<u>Q</u>
98-86-2-----	Acetophenone	10	U
1912-24-9-----	Atrazine	10	U
100-52-7-----	Benzaldehyde	10	U
105-60-2-----	Caprolactam	3	J
92-52-4-----	Biphenyl	4	J
86-30-6-----	N-Nitrosodiphenylamine	2	J
621-64-7-----	N-Nitroso-di-N-propylamine	10	U
88-74-4-----	2-Nitroaniline	24	U
99-09-2-----	3-Nitroaniline	24	U
100-01-6-----	4-Nitroaniline	24	U
91-94-1-----	3,3'-Dichlorobenzidine	10	U
91-58-7-----	2-Chloronaphthalene	10	U
132-64-9-----	Dibenzofuran	0.9	J
95-50-1-----	1,2-Dichlorobenzene	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-68-3-----	Hexachlorobutadiene	10	U
67-72-1-----	Hexachloroethane	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
91-57-6-----	2-Methylnaphthalene	83	E
120-82-1-----	1,2,4-Trichlorobenzene	10	U
106-47-8-----	4-Chloroaniline	10	U
85-68-7-----	Butylbenzylphthalate	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	2	J
84-66-2-----	Diethylphthalate	5	J
131-11-3-----	Dimethylphthalate	1	J
84-74-2-----	di-n-Butylphthalate	1	J
117-84-0-----	di-n-Octylphthalate	0.4	J
86-74-8-----	Carbazole	1	J
121-14-2-----	2,4-Dinitrotoluene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000039

Client

A4620F

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) WATER Lab Sample ID: A2292802

Sample wt/vol: 1040.0 (g/mL) ML Lab File ID: Z51103.RR

Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 04/02/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/08/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
78-59-1	Isophorone		10	U
98-95-3	Nitrobenzene		10	U
208-96-8	Acenaphthylene		10	U
83-32-9	Acenaphthene		0.6	J
120-12-7	Anthracene		0.5	J
56-55-3	Benzo (a) anthracene		10	U
50-32-8	Benzo (a) pyrene		10	U
205-99-2	Benzo (b) fluoranthene		10	U
191-24-2	Benzo (g, h, i) perylene		10	U
207-08-9	Benzo (k) fluoranthene		10	U
218-01-9	Chrysene		10	U
53-70-3	Dibenzo (a, h) anthracene		10	U
206-44-0	Fluoranthene		10	U
86-73-7	Fluorene		2	J
193-39-5	Indeno (1, 2, 3-c, d) pyrene		10	U
91-20-3	Naphthalene		130	E
85-01-8	Phenanthrene		2	J
129-00-0	Pyrene		0.5	J
59-50-7	4-Chloro-3-methylphenol		10	U
95-57-8	2-Chlorophenol		10	U
120-83-2	2,4-Dichlorophenol		10	U
105-67-9	2,4-Dimethylphenol		22	
51-28-5	2,4-Dinitrophenol		24	U
534-52-1	2-Methyl-4,6-dinitrophenol		24	U
95-48-7	2-Methylphenol		43	
106-44-5	4-Methylphenol		49	
88-75-5	2-Nitrophenol		10	U
100-02-7	4-Nitrophenol		24	U
87-86-5	Pentachlorophenol		24	U
108-95-2	Phenol		41	
95-95-4	2,4,5-Trichlorophenol		24	U
88-06-2	2,4,6-Trichlorophenol		10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000040

Client No.

A4620F

Name: STL Buffalo Contract: C004154  
 Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328  
 Matrix: (soil/water) WATER Lab Sample ID: A2292802  
 Sample wt/vol: 1040.0 (g/mL) ML Lab File ID: Z51103.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002  
 Disturbance: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 04/02/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/08/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 6.0

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

CAS NO.	COMPOUND	UG/L	Q
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	bis(2-Chloroisopropyl) ether	10	U
111-91-1	bis(2-Chloroethoxy) methane	10	U
101-55-3	4-Bromophenylphenylether	10	U
7005-72-3	4-Chlorophenylphenylether	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000041

Client

A4620F

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) WATER

Lab Sample ID: A2292802

Sample wt/vol: 1040.0 (g/mL) ML

Lab File ID: Z51103.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28

% Moisture: \_\_\_\_\_ decanted: (Y/N) N

Date Extracted: 04/02/2002

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/08/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0

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

Number TICs found: 20

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	6.63	22	J
2.	UNKNOWN ACID	6.80	21	J
3.	UNKNOWN ACID	6.86	13	J
4.	UNKNOWN	7.55	8	J
5.	ETHYLMETHYLBENZENE ISOMER	7.68	20	J
6.	TRIMETHYLBENZENE ISOMER	7.81	7	J
7.	ETHYLMETHYLBENZENE ISOMER	8.03	8	J
8.	TRIMETHYLBENZENE ISOMER	8.81	10	J
9.	ETHENYLDIMETHYLBENZENE ISOME	10.10	11	J
10.	UNKNOWN	10.98	4	J
11.	UNKNOWN ACID	11.25	2	J
12.	BUTOXYETHOXY ETHANOL	11.71	65	J
13.	UNKNOWN	13.13	75	J
14.	90-12-0 1-METHYLNAPHTHALENE	13.45	4	JN
15.	UNKNOWN	17.96	190	J
16.	UNKNOWN	18.06	12	J
17.	UNKNOWN	18.16	16	J
18.	UNKNOWN	18.40	10	J
19.	UNKNOWN	18.55	7	J
20.	UNKNOWN	19.68	42	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000042

Client No.

A4620F DL

Name: STL Buffalo Contract: C004154  
 Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328  
 Matrix: (soil/water) WATER Lab Sample ID: A2292802DL  
 Sample wt/vol: 1040.0 (g/mL) ML Lab File ID: Z51132.RR  
 Rel: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002  
 Disture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 04/02/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/09/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 5.00  
 Cleanup: (Y/N) N pH: 6.0

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

CAS NO.	COMPOUND	UG/L	Q
98-86-2	Acetophenone	48	U
1912-24-9	Atrazine	48	U
100-52-7	Benzaldehyde	48	U
105-60-2	Caprolactam	52	
92-52-4	Biphenyl	3	J
86-30-6	N-Nitrosodiphenylamine	1	J
621-64-7	N-Nitroso-di-N-propylamine	48	U
88-74-4	2-Nitroaniline	120	U
99-09-2	3-Nitroaniline	120	U
100-01-6	4-Nitroaniline	120	U
91-94-1	3,3'-Dichlorobenzidine	48	U
91-58-7	2-Chloronaphthalene	48	U
132-64-9	Dibenzofuran	48	U
95-50-1	1,2-Dichlorobenzene	48	U
541-73-1	1,3-Dichlorobenzene	48	U
106-46-7	1,4-Dichlorobenzene	48	U
118-74-1	Hexachlorobenzene	48	U
87-68-3	Hexachlorobutadiene	48	U
67-72-1	Hexachloroethane	48	U
77-47-4	Hexachlorocyclopentadiene	48	U
91-57-6	2-Methylnaphthalene	86	
120-82-1	1,2,4-Trichlorobenzene	48	U
106-47-8	4-Chloroaniline	48	U
85-68-7	Butylbenzylphthalate	48	U
117-81-7	bis(2-Ethylhexyl) phthalate	2	J
84-66-2	Diethylphthalate	4	J
131-11-3	Dimethylphthalate	48	U
84-74-2	di-n-Butylphthalate	1	J
117-84-0	di-n-Octylphthalate	48	U
86-74-8	Carbazole	1	J
121-14-2	2,4-Dinitrotoluene	48	U
606-20-2	2,6-Dinitrotoluene	48	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

00004

Client

AA620F DL

Lab Name: STL Buffalo

Contract: C004154

Lab Code: REONY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0328

Matrix: (soil/water) WATER

Lab Sample ID: A2292802DL

Sample wt/vol: 1040.0 (g/mL) ML

Lab File ID: Z51132.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28/

% Moisture: \_\_\_\_\_ decanted: (Y/N) N

Date Extracted: 04/02/2002

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/09/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
78-59-1	Isophorone	48	U
98-95-3	Nitrobenzene	48	U
208-96-8	Acenaphthylene	48	U
83-32-9	Acenaphthene	48	U
120-12-7	Anthracene	48	U
56-55-3	Benzo (a) anthracene	48	U
50-32-8	Benzo (a) pyrene	48	U
205-99-2	Benzo (b) fluoranthene	48	U
191-24-2	Benzo (g,h,i) perylene	48	U
207-08-9	Benzo (k) fluoranthene	48	U
218-01-9	Chrysene	48	U
53-70-3	Dibenzo (a,h) anthracene	48	U
206-44-0	Fluoranthene	48	U
86-73-7	Fluorene	1	J
193-39-5	Indeno (1,2,3-c,d) pyrene	48	U
91-20-3	Naphthalene	150	
85-01-8	Phenanthrene	2	J
129-00-0	Pyrene	48	U
59-50-7	4-Chloro-3-methylphenol	48	U
95-57-8	2-Chlorophenol	48	U
120-83-2	2,4-Dichlorophenol	48	U
105-67-9	2,4-Dimethylphenol	20	J
51-28-5	2,4-Dinitrophenol	120	U
534-52-1	2-Methyl-4,6-dinitrophenol	120	U
95-48-7	2-Methylphenol	42	J
106-44-5	4-Methylphenol	48	
88-75-5	2-Nitrophenol	48	U
100-02-7	4-Nitrophenol	120	U
87-86-5	Pentachlorophenol	120	U
108-95-2	Phenol	41	J
95-95-4	2,4,5-Trichlorophenol	120	U
88-06-2	2,4,6-Trichlorophenol	48	U



NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000044

Client No.

A4620F DL

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECNY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0328

Matrix: (soil/water) WATER

Lab Sample ID: A2292802DL

Sample wt/vol: 1040.0 (g/mL) ML

Lab File ID: Z51132.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28/2002

Moisture: \_\_\_\_\_ decanted: (Y/N) N

Date Extracted: 04/02/2002

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/09/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 5.00

GC Cleanup: (Y/N) N pH: 6.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
111-44-4	bis(2-Chloroethyl) ether		48	U
108-60-1	bis(2-Chloroisopropyl) ether		48	U
111-91-1	bis(2-Chloroethoxy) methane		48	U
101-55-3	4-Bromophenylphenylether		48	U
7005-72-3	4-Chlorophenylphenylether		48	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000045

Client

A4620F DL

Lab Name: STL Buffalo

Contract: C004154

Lab Code: REQNY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0328

Matrix: (soil/water) WATER

Lab Sample ID: A2292802DL

Sample wt/vol: 1040.0 (g/mL) ML

Lab File ID: Z51132.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/2

% Moisture: \_\_\_\_\_ decanted: (Y/N) N

Date Extracted: 04/02/2002

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/09/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 5.00

GPC Cleanup: (Y/N) N

pH: 6.0

Number TICs found: 18

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN ACID	4.65	140	J
2.	UNKNOWN ACID	5.55	250	J
3. 111-76-2	2-BUTOXY ETHANOL	6.60	150	JN
4.	ETHYLMETHYLBENZENE ISOMER	7.61	190	J
5.	UNKNOWN	8.43	120	J
6.	TRIMETHYLBENZENE ISOMER	8.75	98	J
7.	METHOXYETHOXY ETHANOL	11.96	72	J
8.	UNKNOWN ACID	14.25	53	J
9.	BUTOXYETHOXY ETHANOL	15.38	4600	J
10.	UNKNOWN ALCOHOL	15.73	59	J
11.	UNKNOWN ALCOHOL	16.28	220	J
12.	UNKNOWN ALCOHOL	17.01	49	J
13.	UNKNOWN ALCOHOL	17.83	920	J
14.	UNKNOWN ALCOHOL	17.96	25	J
15.	UNKNOWN ALCOHOL	18.05	44	J
16.	UNKNOWN ALCOHOL	18.31	31	J
17.	UNKNOWN ALCOHOL	19.58	190	J
18.	UNKNOWN ALCOHOL	21.06	44	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000046

Client No.

A462L1

Name: STL Buffalo Contract: C004154  
 Code: RECN Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328  
 Matrix: (soil/water) WATER Lab Sample ID: A2292801  
 Sample wt/vol: 1040.0 (g/mL) ML Lab File ID: Z51102.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002  
 Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 04/02/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/08/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	UG/L	Q
98-86-2	Acetophenone	10	U
1912-24-9	Atrazine	10	U
100-52-7	Benzaldehyde	10	U
105-60-2	Caprolactam	10	U
92-52-4	Biphenyl	10	U
86-30-6	N-Nitrosodiphenylamine	2	U
621-64-7	N-Nitroso-di-N-propylamine	10	U
88-74-4	2-Nitroaniline	24	U
99-09-2	3-Nitroaniline	24	U
100-01-6	4-Nitroaniline	24	U
91-94-1	3,3'-Dichlorobenzidine	10	U
91-58-7	2-Chloronaphthalene	0.6	U
132-64-9	Dibenzofuran	1	U
95-50-1	1,2-Dichlorobenzene	2	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	6	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
67-72-1	Hexachloroethane	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
91-57-6	2-Methylnaphthalene	5	U
120-82-1	1,2,4-Trichlorobenzene	10	U
106-47-8	4-Chloroaniline	140	U
85-68-7	Butylbenzylphthalate	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	U
84-66-2	Diethylphthalate	2	U
131-11-3	Dimethylphthalate	10	U
84-74-2	di-n-Butylphthalate	0.6	U
117-84-0	di-n-Octylphthalate	0.3	U
86-74-8	Carbazole	1	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000047

Client

A462L1

Lab Name: STL Buffalo Contract: C004154

Lab Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) WATER Lab Sample ID: A2292801

Sample wt/vol: 1040.0 (g/mL) ML Lab File ID: Z51102.RR

Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 04/02/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/08/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	UG/L	Q
78-59-1	Isophorone	10	U
98-95-3	Nitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	3	J
120-12-7	Anthracene	0.3	J
56-55-3	Benzo (a) anthracene	10	U
50-32-8	Benzo (a) pyrene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
191-24-2	Benzo (g, h, i) perylene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenzo (a, h) anthracene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	1	J
193-39-5	Indeno (1, 2, 3-c, d) pyrene	10	U
91-20-3	Naphthalene	8	J
85-01-8	Phenanthrene	2	J
129-00-0	Pyrene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
95-57-8	2-Chlorophenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
51-28-5	2,4-Dinitrophenol	24	U
534-52-1	2-Methyl-4,6-dinitrophenol	24	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	24	U
87-86-5	Pentachlorophenol	24	U
108-95-2	Phenol	10	U
95-95-4	2,4,5-Trichlorophenol	24	U
88-06-2	2,4,6-Trichlorophenol	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000048

Client No.

A462L1

Name: STL Buffalo Contract: C004154  
 Code: RECN Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328  
 Matrix: (soil/water) WATER Lab Sample ID: A2292801  
 Sample wt/vol: 1040.0 (g/mL) ML Lab File ID: Z51102.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002  
 Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 04/02/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/08/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	UG/L	Q
111-44-4-----	bis(2-Chloroethyl) ether	10	U
108-60-1-----	bis(2-Chloroisopropyl) ether	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
101-55-3-----	4-Bromophenylphenylether	10	U
7005-72-3-----	4-Chlorophenylphenylether	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

00004

Client

A462L1

Lab Name: STL Buffalo

Contract: C004154

Lab Code: REONY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0328

Matrix: (soil/water) WATER

Lab Sample ID: A2292801

Sample wt/vol: 1040.0 (g/mL) ML

Lab File ID: Z51102.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/2

% Moisture: \_\_\_\_\_ decanted: (Y/N) N

Date Extracted: 04/02/2002

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/08/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N

pH: 7.0

CONCENTRATION UNITS:

Number TICs found: 28

(ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN HYDROCARBON	7.26	7	J
2.	UNKNOWN	10.40	12	J
3. 95-51-2	2-CHLOROANILINE	10.65	220	JN
4.	UNKNOWN	10.80	7	J
5.	UNKNOWN	11.70	13	J
6.	UNKNOWN	12.15	13	J
7.	UNKNOWN	12.61	6	J
8.	UNKNOWN	12.71	7	J
9.	UNKNOWN	12.81	6	J
10. 90-12-0	1-METHYLNAPHTHALENE	13.41	7	JN
11.	UNKNOWN	13.96	11	J
12. 80-46-6	4-(1,1-DIMETHYLPROPYL) PHENOL	14.50	13	JN
13.	UNKNOWN HYDROCARBON	14.61	11	J
14.	UNKNOWN HYDROCARBON	14.96	7	J
15.	UNKNOWN BENZENE DER.	15.15	11	J
16.	UNKNOWN	15.25	8	J
17.	UNKNOWN	15.41	7	J
18.	UNKNOWN	15.48	7	J
19. 934-34-9	2 (3H) BENZOTHAZOLONE	17.50	120	JN
20. 80-39-7	N-ETHYL-4-METHYLBENZENESULFO	17.76	24	JN
21.	UNKNOWN	17.93	16	J
22.	UNKNOWN	18.10	11	J
23.	UNKNOWN	18.48	28	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000050

Client No.

A462L1

Name: STL Buffalo Contract: C004154

Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) WATER Lab Sample ID: A2292801

Sample wt/vol: 1040.0 (g/mL) ML Lab File ID: Z51102.RR

Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002

Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 04/02/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/08/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

Cleanup: (Y/N) N pH: 7.0

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

Number TICs found: 28

CAS NO.	Compound Name	RT	Est. Conc.	Q
24. 81-84-5	1,8-NAPHTHALIC ANHYDRIDE	19.95	20	JN
25.	UNKNOWN	20.30	160	J
26.	UNKNOWN	20.38	8	J
27.	UNKNOWN	21.68	15	J
28.	UNKNOWN	22.56	6	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000051

Client

A462L1 DL

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) WATER Lab Sample ID: A2292801DL

Sample wt/vol: 1040.0 (g/mL) ML Lab File ID: Z51131.FR

Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 04/02/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/09/2002

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	UG/L	Q
98-86-2	Acetophenone	48	U
1912-24-9	Atrazine	48	U
100-52-7	Benzaldehyde	48	U
105-60-2	Caprolactam	34	J
92-52-4	Biphenyl	48	U
86-30-6	N-Nitrosodiphenylamine	48	U
621-64-7	N-Nitroso-di-N-propylamine	48	U
88-74-4	2-Nitroaniline	120	U
99-09-2	3-Nitroaniline	120	U
100-01-6	4-Nitroaniline	120	U
91-94-1	3,3'-Dichlorobenzidine	48	U
91-58-7	2-Chloronaphthalene	48	U
132-64-9	Dibenzofuran	48	U
95-50-1	1,2-Dichlorobenzene	48	U
541-73-1	1,3-Dichlorobenzene	48	U
106-46-7	1,4-Dichlorobenzene	4	J
118-74-1	Hexachlorobenzene	48	U
87-68-3	Hexachlorobutadiene	48	U
67-72-1	Hexachloroethane	48	U
77-47-4	Hexachlorocyclopentadiene	48	U
91-57-6	2-Methylnaphthalene	5	J
120-82-1	1,2,4-Trichlorobenzene	48	U
106-47-8	4-Chloroaniline	170	
85-68-7	Butylbenzylphthalate	48	U
117-81-7	bis(2-Ethylhexyl)phthalate	48	U
84-66-2	Diethylphthalate	2	J
131-11-3	Dimethylphthalate	48	U
84-74-2	di-n-Butylphthalate	48	U
117-84-0	di-n-Octylphthalate	48	U
86-74-8	Carbazole	48	U
121-14-2	2,4-Dinitrotoluene	48	U
606-20-2	2,6-Dinitrotoluene	48	U



NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000052

Client No.

A462L1 DL

Name: SIL Buffalo Contract: C004154  
 Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328  
 Matrix: (soil/water) WATER Lab Sample ID: A2292801DL  
 Sample wt/vol: 1040.0 (g/mL) ML Lab File ID: Z51131.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002  
 Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 04/02/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/09/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 5.00  
 Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
78-59-1	Isophorone		48	U
98-95-3	Nitrobenzene		48	U
208-96-8	Acenaphthylene		48	U
83-32-9	Acenaphthene		2	J
120-12-7	Anthracene		48	U
56-55-3	Benzo (a) anthracene		48	U
50-32-8	Benzo (a) pyrene		48	U
205-99-2	Benzo (b) fluoranthene		48	U
191-24-2	Benzo (g, h, i) perylene		48	U
207-08-9	Benzo (k) fluoranthene		48	U
218-01-9	Chrysene		48	U
53-70-3	Dibenzo (a, h) anthracene		48	U
206-44-0	Fluoranthene		48	U
86-73-7	Fluorene		48	U
193-39-5	Indeno (1, 2, 3-c, d) pyrene		48	U
91-20-3	Naphthalene		8	J
85-01-8	Phenanthrene		48	U
129-00-0	Pyrene		48	U
59-50-7	4-Chloro-3-methylphenol		48	U
95-57-8	2-Chlorophenol		48	U
120-83-2	2,4-Dichlorophenol		48	U
105-67-9	2,4-Dimethylphenol		48	U
51-28-5	2,4-Dinitrophenol		120	U
534-52-1	2-Methyl-4,6-dinitrophenol		120	U
95-48-7	2-Methylphenol		48	U
106-44-5	4-Methylphenol		48	U
88-75-5	2-Nitrophenol		48	U
100-02-7	4-Nitrophenol		120	U
87-86-5	Pentachlorophenol		120	U
108-95-2	Phenol		48	U
95-95-4	2,4,5-Trichlorophenol		120	U
88-06-2	2,4,6-Trichlorophenol		48	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000053

Client

A462L1 DL

Lab Name: STL Buffalo

Contract: C004154

Lab Code: REONY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0328

Matrix: (soil/water) WATER

Lab Sample ID: A2292801DL

Sample wt/vol: 1040.0 (g/mL) ML

Lab File ID: Z51131.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28/2002

% Moisture: \_\_\_\_\_ decanted: (Y/N) N

Date Extracted: 04/02/2002

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/09/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
111-44-4-----	bis(2-Chloroethyl) ether		48	U
108-60-1-----	bis(2-Chloroisopropyl) ether		48	U
111-91-1-----	bis(2-Chloroethoxy) methane		48	U
101-55-3-----	4-Bromophenylphenylether		48	U
7005-72-3-----	4-Chlorophenylphenylether		48	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000054

Client No.

A462L1 DL

Name: STL Buffalo Contract: C004154  
 Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) WATER Lab Sample ID: A2292801DL  
 Sample wt/vol: 1040.0 (g/mL) ML Lab File ID: Z51131.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002  
 Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 04/02/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/09/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 5.00  
 Cleanup: (Y/N) N pH: 7.0

Number TICs found: 19

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

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	10.36	10	J
2. 95-51-2	2-CHLOROANILINE	10.58	300	JN
3.	UNKNOWN	10.93	12	J
4.	UNKNOWN	12.11	10	J
5.	UNKNOWN	12.63	21	J
6. 98-54-4	P-TERT-BUTYL PHENOL	14.45	11	JN
7.	TETRACHLOROPHENOL ISOMER	16.31	13	J
8. 134-62-3	DIETHYLTOLUAMIDE	16.51	16	JN
9. 126-73-8	PHOSPHORIC ACID TRIBUTYL EST	17.03	13	JN
10.	UNKNOWN	17.21	23	J
11. 934-34-9	2 (3H) BENZOTHIAZOLONE	17.35	180	JN
12. 80-39-7	N-ETHYL-4-METHYLBENZENESULFO	17.68	32	JN
13. 57-10-3	HEXADECANOIC ACID	19.15	15	JN
14. 81-84-5	1,8-NAPHTHALIC ANHYDRIDE	19.90	23	JN
15.	UNKNOWN HYDROCARBON	20.16	14	J
16.	UNKNOWN	20.25	180	J
17.	UNKNOWN	20.33	19	J
18.	UNKNOWN PHENOL DER.	20.53	36	J
19.	UNKNOWN	21.61	11	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

00005

Client

A462L2

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) WATER Lab Sample ID: A2292803

Sample wt/vol: 1050.0 (g/mL) ML Lab File ID: Z51104.RR

Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 04/02/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/08/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
98-86-2	Acetophenone		10	U
1912-24-9	Atrazine		10	U
100-52-7	Benzaldehyde		10	U
105-60-2	Caprolactam		10	U
92-52-4	Biphenyl		10	U
86-30-6	N-Nitrosodiphenylamine		0.6	J
621-64-7	N-Nitroso-di-N-propylamine		10	U
88-74-4	2-Nitroaniline		24	U
99-09-2	3-Nitroaniline		24	U
100-01-6	4-Nitroaniline		24	U
91-94-1	3,3'-Dichlorobenzidine		10	U
91-58-7	2-Chloronaphthalene		10	U
132-64-9	Dibenzofuran		0.5	J
95-50-1	1,2-Dichlorobenzene		0.2	J
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		2	J
118-74-1	Hexachlorobenzene		10	U
87-68-3	Hexachlorobutadiene		10	U
67-72-1	Hexachloroethane		10	U
77-47-4	Hexachlorocyclopentadiene		10	U
91-57-6	2-Methylnaphthalene		0.3	J
120-82-1	1,2,4-Trichlorobenzene		10	U
106-47-8	4-Chloroaniline		10	U
85-68-7	Butylbenzylphthalate		10	U
117-81-7	bis(2-Ethylhexyl)phthalate		0.9	J
84-66-2	Diethylphthalate		0.9	J
131-11-3	Dimethylphthalate		10	U
84-74-2	di-n-Butylphthalate		0.4	J
117-84-0	di-n-Octylphthalate		0.3	J
86-74-8	Carbazole		0.3	J
121-14-2	2,4-Dinitrotoluene		10	U
606-20-2	2,6-Dinitrotoluene		10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000056

Client No.

A462L2

Name: SIL Buffalo

Contract: C004154

Code: RECN

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0328

Matrix: (soil/water) WATER

Lab Sample ID: A2292803

Sample wt/vol: 1050.0 (g/mL) ML

Lab File ID: Z51104.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28/2002

Moisture: \_\_\_\_\_ decanted: (Y/N) N

Date Extracted: 04/02/2002

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/08/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

Cleanup: (Y/N) N pH: 6.0

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/L

Q

CAS NO.	COMPOUND	UG/L	Q
78-59-1	Isophorone	10	U
98-95-3	Nitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	1	J
120-12-7	Anthracene	10	U
56-55-3	Benzo (a) anthracene	10	U
50-32-8	Benzo (a) pyrene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
191-24-2	Benzo (g, h, i) perylene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenzo (a, h) anthracene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	0.7	J
193-39-5	Indeno (1, 2, 3-c, d) pyrene	10	U
91-20-3	Naphthalene	0.4	J
85-01-8	Phenanthrene	10	U
129-00-0	Pyrene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
95-57-8	2-Chlorophenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
51-28-5	2,4-Dinitrophenol	24	U
534-52-1	2-Methyl-4,6-dinitrophenol	24	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	24	U
87-86-5	Pentachlorophenol	24	U
108-95-2	Phenol	10	U
95-95-4	2,4,5-Trichlorophenol	24	U
88-06-2	2,4,6-Trichlorophenol	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000057

Client

A462L2

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) WATER

Lab Sample ID: A2292803

Sample wt/vol: 1050.0 (g/mL) ML

Lab File ID: Z51104.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28/2002

% Moisture: \_\_\_\_\_ decanted: (Y/N) N

Date Extracted: 04/02/2002

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/08/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L Q
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	bis(2-Chloroisopropyl) ether	10	U
111-91-1	bis(2-Chloroethoxy) methane	10	U
101-55-3	4-Bromophenylphenylether	10	U
7005-72-3	4-Chlorophenylphenylether	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000058

Client No.

A462L2

Name: STL Buffalo

Contract: C004154

Code: RECNY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0328

Matrix: (soil/water) WATER

Lab Sample ID: A2292803

Sample wt/vol: 1050.0 (g/mL) ML

Lab File ID: Z51104.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28/2002

Disturbance: \_\_\_\_\_ decanted: (Y/N) N

Date Extracted: 04/02/2002

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/08/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

Cleanup: (Y/N) N

pH: 6.0

Number TICs found: 25

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN ALCOHOL	9.51	4	J
2.	UNKNOWN	10.15	3	J
3.	UNKNOWN	10.96	6	J
4.	UNKNOWN	11.61	3	J
5.	UNKNOWN	11.68	9	J
6.	UNKNOWN	11.88	4	J
7.	UNKNOWN ALCOHOL	12.48	3	J
8.	UNKNOWN	12.61	4	J
9.	UNKNOWN	12.73	4	J
10.	UNKNOWN	12.86	3	J
11.	UNKNOWN	13.26	7	J
12.	DIMETHYLBENZOIC ACID ISOMER	13.90	4	J
13.	DIMETHYLBENZOIC ACID ISOMER	13.93	8	J
14.	UNKNOWN	14.50	6	J
15.	UNKNOWN	15.16	10	J
16.	UNKNOWN	15.48	4	J
17.	UNKNOWN	15.85	4	J
18.	134-62-3 DIETHYLTOLUAMIDE	16.56	13	JN
19.	UNKNOWN	17.28	18	J
20.	934-34-9 2 (3H) BENZOIHLAZOLONE	17.50	100	JN
21.	NAPHTHALENECARBOXYLIC ACID I	17.53	3	J
22.	80-39-7 N-ETHYL-4-METHYLBENZENESULFO	17.75	12	JN
23.	81-84-5 1,8-NAPHTHALIC ANHYDRIDE	19.95	7	JN

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

0000-

Client

A462L2

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) WATER Lab Sample ID: A2292803

Sample wt/vol: 1050.0 (g/mL) ML Lab File ID: Z51104.RR

Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 04/02/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/08/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0

Number TICs found: 25

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

CAS NO.	Compound Name	RT	Est. Conc.	Q
24.	UNKNOWN	20.30	230	J
25.	UNKNOWN	21.68	9	J



NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000060

Client No.

A462L3

Name: STL Buffalo Contract: C004154  
 Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328  
 Matrix: (soil/water) WATER Lab Sample ID: A2292805RE  
 Sample wt/vol: 1035.0 (g/mL) ML Lab File ID: Z51148.RR  
 Dilution: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002  
 Disturbance: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 04/10/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/11/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
98-86-2	Acetophenone	10		U
1912-24-9	Atrazine	10		U
100-52-7	Benzaldehyde	0.5		J
105-60-2	Caprolactam	10		U
92-52-4	Biphenyl	10		U
86-30-6	N-Nitrosodiphenylamine	2		J
621-64-7	N-Nitroso-di-N-propylamine	10		U
88-74-4	2-Nitroaniline	24		U
99-09-2	3-Nitroaniline	24		U
100-01-6	4-Nitroaniline	24		U
91-94-1	3,3'-Dichlorobenzidine	10		U
91-58-7	2-Chloronaphthalene	10		U
132-64-9	Dibenzofuran	0.7		J
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	2		J
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
67-72-1	Hexachloroethane	10		U
77-47-4	Hexachlorocyclopentadiene	10		U
91-57-6	2-Methylnaphthalene	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
106-47-8	4-Chloroaniline	10		U
85-68-7	Butylbenzylphthalate	10		U
117-81-7	bis(2-Ethylhexyl)phthalate	1		BJ
84-66-2	Diethylphthalate	1		J
131-11-3	Dimethylphthalate	10		U
84-74-2	di-n-Butylphthalate	0.4		J
117-84-0	di-n-Octylphthalate	10		U
86-74-8	Carbazole	0.5		J
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000061

Client

A462L3

Lab Name: STL Buffalo

Contract: C004154

Lab Code: REONY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0328

Matrix: (soil/water) WATER

Lab Sample ID: A2292805RE

Sample wt/vol: 1035.0 (g/mL) ML

Lab File ID: Z51148.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28/

% Moisture: \_\_\_\_\_ decanted: (Y/N) N

Date Extracted: 04/10/2002

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/11/2002

Injection Volume: 2.00 (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
78-59-1	Isophorone		10	U
98-95-3	Nitrobenzene		10	U
208-96-8	Acenaphthylene		10	U
83-32-9	Acenaphthene		1	J
120-12-7	Anthracene		0.2	J
56-55-3	Benzo (a) anthracene		10	U
50-32-8	Benzo (a) pyrene		10	U
205-99-2	Benzo (b) fluoranthene		10	U
191-24-2	Benzo (g, h, i) perylene		10	U
207-08-9	Benzo (k) fluoranthene		10	U
218-01-9	Chrysene		10	U
53-70-3	Dibenzo (a, h) anthracene		10	U
206-44-0	Fluoranthene		10	U
86-73-7	Fluorene		1	J
193-39-5	Indeno (1, 2, 3-c, d) pyrene		10	U
91-20-3	Naphthalene		0.6	J
85-01-8	Phenanthrene		0.4	J
129-00-0	Pyrene		10	U
59-50-7	4-Chloro-3-methylphenol		10	U
95-57-8	2-Chlorophenol		10	U
120-83-2	2,4-Dichlorophenol		10	U
105-67-9	2,4-Dimethylphenol		10	U
51-28-5	2,4-Dinitrophenol		24	U
534-52-1	2-Methyl-4,6-dinitrophenol		24	U
95-48-7	2-Methylphenol		1	J
106-44-5	4-Methylphenol		0.4	J
88-75-5	2-Nitrophenol		10	U
100-02-7	4-Nitrophenol		24	U
87-86-5	Pentachlorophenol		24	U
108-95-2	Phenol		10	U
95-95-4	2,4,5-Trichlorophenol		24	U
88-06-2	2,4,6-Trichlorophenol		10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 ANALYSIS DATA SHEET

000062

Client No.

A462L3

Name: STL Buffalo Contract: C004154  
 Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328  
 Matrix: (soil/water) WATER Lab Sample ID: A2292805RE  
 Sample wt/vol: 1035.0 (g/mL) ML Lab File ID: Z51148.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002  
 Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 04/10/2002  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/11/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0

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

CAS NO.	COMPOUND	UG/L	Q
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	bis(2-Chloroisopropyl) ether	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
101-55-3	4-Bromophenylphenylether	10	U
7005-72-3	4-Chlorophenylphenylether	10	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000063

Client

A462L3

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) WATER

Lab Sample ID: A2292805RE

Sample wt/vol: 1035.0 (g/mL) ML

Lab File ID: Z51148.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28/2002

% Moisture: \_\_\_\_\_ decanted: (Y/N) N

Date Extracted: 04/10/2002

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/11/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 27

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

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	4.40	7	J
2.	UNKNOWN	10.06	7	J
3.	UNKNOWN	10.71	14	J
4.	UNKNOWN	11.53	7	J
5.	UNKNOWN	11.60	15	J
6.	UNKNOWN	12.08	6	J
7.	UNKNOWN	12.53	6	J
8.	UNKNOWN	12.66	9	J
9.	UNKNOWN	12.73	8	J
10.	UNKNOWN	13.11	6	J
11.	UNKNOWN	13.88	5	J
12.	UNKNOWN	14.41	5	J
13.	UNKNOWN	15.08	9	J
14.	UNKNOWN	15.40	4	J
15.	134-62-3 DIETHYL-TOLUAMIDE	16.50	13	JN
16.	934-34-9 2 (3H) BENZOTHAZOLONE	17.41	110	JN
17.	UNKNOWN	17.61	4	J
18.	80-39-7 N-ETHYL-4-METHYLBENZENESULFO	17.68	15	JN
19.	UNKNOWN	18.03	6	J
20.	UNKNOWN	18.88	4	J
21.	UNKNOWN	19.43	4	J
22.	81-84-5 1,8-NAPHTHALIC ANHYDRIDE	19.88	5	JN
23.	UNKNOWN	20.25	260	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - ASP00 - SEMIVOLATILES/L - W  
 TENTATIVELY IDENTIFIED COMPOUNDS

000064

Client No.

A462L3

Name: SIL Buffalo Contract: C004154

Code: RECN Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) WATER

Lab Sample ID: A2292805RE

Sample wt/vol: 1035.0 (g/mL) ML

Lab File ID: Z51148.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28/2002

Moisture: \_\_\_\_\_ decanted: (Y/N) N

Date Extracted: 04/10/2002

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 04/11/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

Cleanup: (Y/N) N pH: 7.0

Number TICs found: 27

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

CAS NO.	Compound Name	RT	Est. Conc.	Q
24.	UNKNOWN	20.73	4	J
25.	UNKNOWN	21.21	8	J
26.	UNKNOWN	21.61	10	J
27. 791-28-6	TRIPHENYL PHOSPHINE OXIDE	22.65	6	JN

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 ANALYSIS DATA SHEET

000065

Client

A462S2

Lab Name: STL Buffalo Contract: C004154

Lab Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) SOIL Lab Sample ID: A2292804

Sample wt/vol: 30.41 (g/mL) G Lab File ID: Y51267.RR

Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002

% Moisture: 30.2 decanted: (Y/N) N Date Extracted: 04/02/2002

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/18/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
100-52-7	Benzaldehyde		28	BJ
108-95-2	Phenol		26	J
111-44-4	bis(2-Chloroethyl) ether		470	U
95-57-8	2-Chlorophenol		470	U
95-48-7	2-Methylphenol		470	U
108-60-1	bis(2-Chloroisopropyl) ether		470	U
98-86-2	Acetophenone		89	J
106-44-5	4-Methylphenol		470	U
621-64-7	N-Nitroso-di-N-propylamine		470	U
67-72-1	Hexachloroethane		470	U
98-95-3	Nitrobenzene		470	U
78-59-1	Isophorone		470	U
88-75-5	2-Nitrophenol		470	U
105-67-9	2,4-Dimethylphenol		470	U
111-91-1	bis(2-Chloroethoxy) methane		470	U
120-83-2	2,4-Dichlorophenol		470	U
91-20-3	Naphthalene		13	J
106-47-8	4-Chloroaniline		470	U
87-68-3	Hexachlorobutadiene		470	U
105-60-2	Caprolactam		470	U
59-50-7	4-Chloro-3-methylphenol		470	U
91-57-6	2-Methylnaphthalene		470	U
77-47-4	Hexachlorocyclopentadiene		470	U
88-06-2	2,4,6-Trichlorophenol		470	U
95-95-4	2,4,5-Trichlorophenol		1100	U
92-52-4	Biphenyl		470	U
91-58-7	2-Chloronaphthalene		470	U
88-74-4	2-Nitroaniline		1100	U
131-11-3	Dimethylphthalate		470	U
606-20-2	2,6-Dinitrotoluene		470	U
208-96-8	Acenaphthylene		470	U
99-09-2	3-Nitroaniline		1100	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 ANALYSIS DATA SHEET

000066

Client No.

A462S2

Name: STL Buffalo Contract: C004154  
 Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328  
 Matrix: (soil/water) SOIL Lab Sample ID: A2292804  
 Sample wt/vol: 30.41 (g/mL) G Lab File ID: Y51267.RR  
 Sensitivity: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002  
 Moisture: 30.2 decanted: (Y/N) N Date Extracted: 04/02/2002  
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/18/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) Y pH: 7.1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9	Acenaphthene		66	J
51-28-5	2,4-Dinitrophenol		1100	U
100-02-7	4-Nitrophenol		1100	U
132-64-9	Dibenzofuran		40	J
121-14-2	2,4-Dinitrotoluene		470	U
84-66-2	Diethylphthalate		470	U
86-73-7	Fluorene		64	J
7005-72-3	4-Chlorophenylphenylether		470	U
100-01-6	4-Nitroaniline		1100	U
534-52-1	2-Methyl-4,6-dinitrophenol		1100	U
86-30-6	N-Nitrosodiphenylamine		470	U
101-55-3	4-Bromophenylphenylether		470	U
118-74-1	Hexachlorobenzene		470	U
1912-24-9	Atrazine		470	U
87-86-5	Pentachlorophenol		1100	U
85-01-8	Phenanthrene		470	
120-12-7	Anthracene		86	J
86-74-8	Carbazole		63	J
84-74-2	di-n-Butylphthalate		110	J
206-44-0	Fluoranthene		730	
129-00-0	Pyrene		740	
85-68-7	Butylbenzylphthalate		19	J
91-94-1	3,3'-Dichlorobenzidine		470	U
56-55-3	Benzo(a)anthracene		300	J
218-01-9	Chrysene		360	J
117-81-7	bis(2-Ethylhexyl)phthalate		200	J
117-84-0	di-n-Octylphthalate		35	J
205-99-2	Benzo(b)fluoranthene		450	J
207-08-9	Benzo(k)fluoranthene		330	J
50-32-8	Benzo(a)pyrene		280	J
193-39-5	Indeno(1,2,3-c,d)pyrene		110	J
53-70-3	Dibenzo(a,h)anthracene		46	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 ANALYSIS DATA SHEET

00000

Client

A462S2

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) SOIL

Lab Sample ID: A2292804

Sample wt/vol: 30.41 (g/mL) G

Lab File ID: Y51267.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28/2002

% Moisture: 30.2 decanted: (Y/N) N

Date Extracted: 04/02/2002

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 04/18/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
191-24-2-----	Benzo(g,h,i)perylene		77	J



NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 TENTATIVELY IDENTIFIED COMPOUNDS

000068

Client No.

A462S2

Site Name: STL Buffalo

Contract: C004154

Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) SOIL

Lab Sample ID: A2292804

Sample wt/vol: 30.41 (g/mL) G

Lab File ID: Y51267.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28/2002

Moisture: 30.2 decanted: (Y/N) N

Date Extracted: 04/02/2002

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 04/18/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

Cleanup: (Y/N) Y pH: 7.1

Number TICs found: 22

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

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	3.65	210	J
2.	UNKNOWN	3.78	1000	J
3.	3074-71-3 2,3-DIMETHYLPENTANE	3.90	170	JN
4.	UNKNOWN	4.16	280	J
5.	UNKNOWN	4.35	350	J
6.	UNKNOWN	4.55	3100	J
7.	UNKNOWN	4.91	130	J
8.	SUSPECTED ALDOL COND. PRODUCT	5.20	3500	J
9.	UNKNOWN	5.38	140	J
10.	SUSPECTED ALDOL COND. PRODUCT	5.48	5300	ABJ
11.	UNKNOWN	5.66	460	J
12.	DIMETHYL-1-BUTENE ISOMER	6.91	240	J
13.	934-34-9 2 (3H) BENZOTHAZOLONE	17.31	360	JN
14.	UNKNOWN ACID	18.98	410	J
15.	57-10-3 HEXADECANOIC ACID	19.08	210	JN
16.	112-80-1 OLEIC ACID	20.08	270	JN
17.	UNKNOWN	20.16	730	J
18.	UNKNOWN	21.53	190	J
19.	UNKNOWN	24.16	580	J
20.	UNKNOWN PAH DER.	24.88	260	J
21.	UNKNOWN	28.10	160	J
22.	UNKNOWN PAH DER.	28.21	210	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 ANALYSIS DATA SHEET

00000

Client

A462S2 RI

Lab Name: STL Buffalo

Contract: C004154

Lab Code: REQNY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0328

Matrix: (soil/water) SOIL

Lab Sample ID: A2292804RI

Sample wt/vol: 30.41 (g/mL) G

Lab File ID: Y51269.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28/

% Moisture: 30.2 decanted: (Y/N) N

Date Extracted: 04/02/2002

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 04/18/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
100-52-7-----	Benzaldehyde		29	BJ
108-95-2-----	Phenol		26	J
111-44-4-----	bis(2-Chloroethyl) ether		470	U
95-57-8-----	2-Chlorophenol		470	U
95-48-7-----	2-Methylphenol		470	U
108-60-1-----	bis(2-Chloroisopropyl) ether		470	U
98-86-2-----	Acetophenone		94	J
106-44-5-----	4-Methylphenol		470	U
621-64-7-----	N-Nitroso-di-N-propylamine		470	U
67-72-1-----	Hexachloroethane		470	U
98-95-3-----	Nitrobenzene		470	U
78-59-1-----	Isophorone		470	U
88-75-5-----	2-Nitrophenol		470	U
105-67-9-----	2,4-Dimethylphenol		470	U
111-91-1-----	bis(2-Chloroethoxy)methane		470	U
120-83-2-----	2,4-Dichlorophenol		470	U
91-20-3-----	Naphthalene		15	J
106-47-8-----	4-Chloroaniline		470	U
87-68-3-----	Hexachlorobutadiene		470	U
105-60-2-----	Caprolactam		470	U
59-50-7-----	4-Chloro-3-methylphenol		470	U
91-57-6-----	2-Methylnaphthalene		470	U
77-47-4-----	Hexachlorocyclopentadiene		470	U
88-06-2-----	2,4,6-Trichlorophenol		470	U
95-95-4-----	2,4,5-Trichlorophenol		1100	U
92-52-4-----	Biphenyl		470	U
91-58-7-----	2-Chloronaphthalene		470	U
88-74-4-----	2-Nitroaniline		1100	U
131-11-3-----	Dimethylphthalate		470	U
606-20-2-----	2,6-Dinitrotoluene		470	U
208-96-8-----	Acenaphthylene		470	U
99-09-2-----	3-Nitroaniline		1100	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 ANALYSIS DATA SHEET

000070

Client No.

A462S2 RI

Name: SIL Buffalo Contract: C004154  
 Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328  
 Matrix: (soil/water) SOIL Lab Sample ID: A2292804RI  
 Sample wt/vol: 30.41 (g/mL) G Lab File ID: Y51269.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002  
 Moisture: 30.2 decanted: (Y/N) N Date Extracted: 04/02/2002  
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/18/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) Y pH: 7.1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9	Acenaphthene		63	J
51-28-5	2,4-Dinitrophenol		1100	U
100-02-7	4-Nitrophenol		1100	U
132-64-9	Dibenzofuran		41	J
121-14-2	2,4-Dinitrotoluene		470	U
84-66-2	Diethylphthalate		470	U
86-73-7	Fluorene		64	J
7005-72-3	4-Chlorophenylphenylether		470	U
100-01-6	4-Nitroaniline		1100	U
534-52-1	2-Methyl-4,6-dinitrophenol		1100	U
86-30-6	N-Nitrosodiphenylamine		470	U
101-55-3	4-Bromophenylphenylether		470	U
118-74-1	Hexachlorobenzene		470	U
1912-24-9	Atrazine		470	U
87-86-5	Pentachlorophenol		1100	U
85-01-8	Phenanthrene		440	J
120-12-7	Anthracene		84	J
86-74-8	Carbazole		65	J
84-74-2	di-n-Butylphthalate		100	J
206-44-0	Fluoranthene		690	
129-00-0	Pyrene		780	
85-68-7	Butylbenzylphthalate		21	J
91-94-1	3,3'-Dichlorobenzidine		470	U
56-55-3	Benzo (a) anthracene		310	J
218-01-9	Chrysene		350	J
117-81-7	bis (2-Ethylhexyl) phthalate		210	J
117-84-0	di-n-Octylphthalate		50	J
205-99-2	Benzo (b) fluoranthene		480	
207-08-9	Benzo (k) fluoranthene		290	J
50-32-8	Benzo (a) pyrene		270	J
193-39-5	Indeno (1,2,3-c,d) pyrene		97	J
53-70-3	Dibenzo (a,h) anthracene		45	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 ANALYSIS DATA SHEET

00007

Client

A462S2 RI

Lab Name: STL Buffalo

Contract: C004154

Lab Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) SOIL

Lab Sample ID: A2292804RI

Sample wt/vol: 30.41 (g/mL) G

Lab File ID: Y51269.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28/2002

% Moisture: 30.2 decanted: (Y/N) N

Date Extracted: 04/02/2002

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 04/18/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
191-24-2-----	Benzo(g,h,i)perylene		72	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 TENTATIVELY IDENTIFIED COMPOUNDS

000072

Client No.

A462S2 RI

Name: STL Buffalo Contract: C004154  
 Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328  
 Matrix: (soil/water) SOIL Lab Sample ID: A2292804RI  
 Sample wt/vol: 30.41 (g/mL) G Lab File ID: Y51269.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002  
 Moisture: 30.2 decanted: (Y/N) N Date Extracted: 04/02/2002  
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/18/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) Y pH: 7.1

Number TICs found: 22

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

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	3.63	280	J
2.	UNKNOWN	3.78	1200	J
3.	UNKNOWN	3.90	170	J
4.	UNKNOWN	4.15	330	J
5.	METHYLEBUTENAL ISOMER	4.35	440	J
6.	UNKNOWN	4.55	2700	J
7.	UNKNOWN	5.18	2800	J
8.	SUSPECTED ALDOL COND. PRODUCT	5.46	5500	ABJ
9.	UNKNOWN	5.65	490	J
10.	934-34-9 2 (3H) BENZOTHIAZOLONE	17.31	290	JN
11.	UNKNOWN ACID	18.98	380	J
12.	UNKNOWN PAH DER.	19.01	210	J
13.	57-10-3 HEXADECANOIC ACID	19.08	250	JN
14.	112-80-1 OLEIC ACID	20.08	340	JN
15.	UNKNOWN	20.16	810	J
16.	UNKNOWN PAH DER.	20.83	220	J
17.	UNKNOWN	21.51	200	J
18.	UNKNOWN	24.16	770	J
19.	UNKNOWN PAH DER.	24.86	270	J
20.	UNKNOWN	25.56	180	J
21.	UNKNOWN	28.08	170	J
22.	UNKNOWN PAH DER.	28.20	220	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 ANALYSIS DATA SHEET

00007

Client

A462S3

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) SOIL Lab Sample ID: A2292806

Sample wt/vol: 30.56 (g/mL) G Lab File ID: Y51268,RR

Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/

% Moisture: 38.2 decanted: (Y/N) N Date Extracted: 04/02/2002

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/18/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
100-52-7-----	Benzaldehyde		42	BJ
108-95-2-----	Phenol		24	J
111-44-4-----	bis(2-Chloroethyl) ether		520	U
95-57-8-----	2-Chlorophenol		520	U
95-48-7-----	2-Methylphenol		520	U
108-60-1-----	bis(2-Chloroisopropyl) ether		520	U
98-86-2-----	Acetophenone		83	J
106-44-5-----	4-Methylphenol		520	U
621-64-7-----	N-Nitroso-di-N-propylamine		520	U
67-72-1-----	Hexachloroethane		520	U
98-95-3-----	Nitrobenzene		520	U
78-59-1-----	Isophorone		520	U
88-75-5-----	2-Nitrophenol		520	U
105-67-9-----	2,4-Dimethylphenol		520	U
111-91-1-----	bis(2-Chloroethoxy) methane		520	U
120-83-2-----	2,4-Dichlorophenol		520	U
91-20-3-----	Naphthalene		20	J
106-47-8-----	4-Chloroaniline		520	U
87-68-3-----	Hexachlorobutadiene		520	U
105-60-2-----	Caprolactam		520	U
59-50-7-----	4-Chloro-3-methylphenol		520	U
91-57-6-----	2-Methylnaphthalene		520	U
77-47-4-----	Hexachlorocyclopentadiene		520	U
88-06-2-----	2,4,6-Trichlorophenol		520	U
95-95-4-----	2,4,5-Trichlorophenol		1300	U
92-52-4-----	Biphenyl		520	U
91-58-7-----	2-Chloronaphthalene		520	U
88-74-4-----	2-Nitroaniline		1300	U
131-11-3-----	Dimethylphthalate		520	U
606-20-2-----	2,6-Dinitrotoluene		520	U
208-96-8-----	Acenaphthylene		24	J
99-09-2-----	3-Nitroaniline		1300	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 ANALYSIS DATA SHEET

000074

Client No.

A462S3

Name: STL Buffalo Contract: C004154  
 Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328  
 Matrix: (soil/water) SOIL Lab Sample ID: A2292806  
 Sample wt/vol: 30.56 (g/mL) G Lab File ID: Y51268.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002  
 Moisture: 38.2 decanted: (Y/N) N Date Extracted: 04/02/2002  
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/18/2002  
 Section Volume: 2.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) Y pH: 7.1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9	Acenaphthene		63	J
51-28-5	2,4-Dinitrophenol		1300	U
100-02-7	4-Nitrophenol		1300	U
132-64-9	Dibenzofuran		40	J
121-14-2	2,4-Dinitrotoluene		520	U
84-66-2	Diethylphthalate		520	U
86-73-7	Fluorene		60	J
7005-72-3	4-Chlorophenylphenylether		520	U
100-01-6	4-Nitroaniline		1300	U
534-52-1	2-Methyl-4,6-dinitrophenol		1300	U
86-30-6	N-Nitrosodiphenylamine		24	J
101-55-3	4-Bromophenylphenylether		520	U
118-74-1	Hexachlorobenzene		520	U
1912-24-9	Atrazine		520	U
87-86-5	Pentachlorophenol		1300	U
85-01-8	Phenanthrene		430	J
120-12-7	Anthracene		88	J
86-74-8	Carbazole		64	J
84-74-2	di-n-Butylphthalate		330	J
206-44-0	Fluoranthene		910	
129-00-0	Pyrene		1000	
85-68-7	Butylbenzylphthalate		28	J
91-94-1	3,3'-Dichlorobenzidine		520	U
56-55-3	Benzo(a)anthracene		440	J
218-01-9	Chrysene		500	J
117-81-7	bis(2-Ethylhexyl)phthalate		170	J
117-84-0	di-n-Octylphthalate		49	J
205-99-2	Benzo(b)fluoranthene		560	
207-08-9	Benzo(k)fluoranthene		510	J
50-32-8	Benzo(a)pyrene		370	J
193-39-5	Indeno(1,2,3-c,d)pyrene		160	J
53-70-3	Dibenzo(a,h)anthracene		70	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 ANALYSIS DATA SHEET

00007

Client

A462S3

Lab Name: STL Buffalo Contract: C004154  
 Lab Code: REQNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328  
 Matrix: (soil/water) SOIL Lab Sample ID: A2292806  
 Sample wt/vol: 30.56 (g/mL) G Lab File ID: Y51268.RR  
 Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002  
 % Moisture: 38.2 decanted: (Y/N) N Date Extracted: 04/02/2002  
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/18/2002  
 Injection Volume: 2.00 (uL) Dilution Factor: 1.00  
 GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
191-24-2-----	Benzo(g,h,i)perylene		120	J



NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 TENTATIVELY IDENTIFIED COMPOUNDS

000076

Client No.

A462S3

Name: STL Buffalo Contract: C004154  
 Code: REONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328  
 Matrix: (soil/water) SOIL  
 Sample wt/vol: 30.56 (g/mL) G  
 Level: (low/med) LOW  
 Moisture: 38.2 decanted: (Y/N) N  
 Concentrated Extract Volume: 500 (uL)  
 Injection Volume: 2.00 (uL)  
 Cleanup: (Y/N) Y pH: 7.1

Lab Sample ID: A2292806  
 Lab File ID: Y51268.RR  
 Date Samp/Recv: 03/28/2002 03/28/2002  
 Date Extracted: 04/02/2002  
 Date Analyzed: 04/18/2002  
 Dilution Factor: 1.00

Number TICs found: 22 CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	3.61	340	J
2.	UNKNOWN	3.75	1600	J
3.	UNKNOWN	3.88	270	J
4.	UNKNOWN	4.13	370	J
5.	UNKNOWN	4.31	530	J
6.	UNKNOWN	4.53	2400	J
7.	UNKNOWN	5.16	2800	J
8.	SUSPECTED ALDOL COND. PRODUCT	5.45	5800	ABJ
9.	UNKNOWN	5.63	580	J
10.	934-34-9 2 (3H) BENZOTHIAZOLONE	17.31	720	JN
11.	UNKNOWN ACID	18.96	990	J
12.	57-10-3 HEXADECANOIC ACID	19.06	520	JN
13.	112-80-1 OLEIC ACID	20.06	710	JN
14.	UNKNOWN	20.13	1100	J
15.	UNKNOWN	24.13	770	J
16.	UNKNOWN PAH DER.	24.85	420	J
17.	UNKNOWN HYDROCARBON	25.53	290	J
18.	UNKNOWN	25.96	390	J
19.	UNKNOWN HYDROCARBON	26.98	280	J
20.	UNKNOWN	28.06	790	J
21.	UNKNOWN	28.18	260	J
22.	UNKNOWN PAH DER.	28.55	200	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 ANALYSIS DATA SHEET

0000'

Client

A46253 RI

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECNY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0328

Matrix: (soil/water) SOIL

Lab Sample ID: A2292806RI

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

Lab File ID: Y51270.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28/

% Moisture: 38.2 decanted: (Y/N) N

Date Extracted: 04/02/2002

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 04/18/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
100-52-7	Benzaldehyde	45	BJ
108-95-2	Phenol	22	J
111-44-4	bis(2-Chloroethyl) ether	520	U
95-57-8	2-Chlorophenol	520	U
95-48-7	2-Methylphenol	520	U
108-60-1	bis(2-Chloroisopropyl) ether	520	U
98-86-2	Acetophenone	83	J
106-44-5	4-Methylphenol	520	U
621-64-7	N-Nitroso-di-N-propylamine	520	U
67-72-1	Hexachloroethane	520	U
98-95-3	Nitrobenzene	520	U
78-59-1	Isophorone	520	U
88-75-5	2-Nitrophenol	520	U
105-67-9	2,4-Dimethylphenol	520	U
111-91-1	bis(2-Chloroethoxy)methane	520	U
120-83-2	2,4-Dichlorophenol	520	U
91-20-3	Naphthalene	21	J
106-47-8	4-Chloroaniline	520	U
87-68-3	Hexachlorobutadiene	520	U
105-60-2	Caprolactam	520	U
59-50-7	4-Chloro-3-methylphenol	520	U
91-57-6	2-Methylnaphthalene	520	U
77-47-4	Hexachlorocyclopentadiene	520	U
88-06-2	2,4,6-Trichlorophenol	520	U
95-95-4	2,4,5-Trichlorophenol	1300	U
92-52-4	Biphenyl	520	U
91-58-7	2-Chloronaphthalene	520	U
88-74-4	2-Nitroaniline	1300	U
131-11-3	Dimethylphthalate	520	U
606-20-2	2,6-Dinitrotoluene	520	U
208-96-8	Acenaphthylene	27	J
99-09-2	3-Nitroaniline	1300	U

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 ANALYSIS DATA SHEET

000078

Client No.

A462S3 RI

Name: STL Buffalo Contract: C004154

Code: RECONY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) SOIL Lab Sample ID: A2292806RI

Sample wt/vol: 30.56 (g/mL) G Lab File ID: Y51270.RR

Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002

Moisture: 38.2 decanted: (Y/N) N Date Extracted: 04/02/2002

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/18/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

Cleanup: (Y/N) Y pH: 7.1

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

CAS NO.	COMPOUND	UG/KG	Q
83-32-9	Acenaphthene	66	J
51-28-5	2,4-Dinitrophenol	1300	U
100-02-7	4-Nitrophenol	1300	U
132-64-9	Dibenzofuran	40	J
121-14-2	2,4-Dinitrotoluene	520	U
84-66-2	Diethylphthalate	520	U
86-73-7	Fluorene	63	J
7005-72-3	4-Chlorophenylphenylether	520	U
100-01-6	4-Nitroaniline	1300	U
534-52-1	2-Methyl-4,6-dinitrophenol	1300	U
86-30-6	N-Nitrosodiphenylamine	24	J
101-55-3	4-Bromophenylphenylether	520	U
118-74-1	Hexachlorobenzene	520	U
1912-24-9	Atrazine	520	U
87-86-5	Pentachlorophenol	42	J
85-01-8	Phenanthrene	440	J
120-12-7	Anthracene	90	J
86-74-8	Carbazole	63	J
84-74-2	di-n-Butylphthalate	330	J
206-44-0	Fluoranthene	840	
129-00-0	Pyrene	1000	
85-68-7	Butylbenzylphthalate	28	J
91-94-1	3,3'-Dichlorobenzidine	520	U
56-55-3	Benzo(a)anthracene	450	J
218-01-9	Chrysene	490	J
117-81-7	bis(2-Ethylhexyl)phthalate	180	J
117-84-0	di-n-Octylphthalate	58	J
205-99-2	Benzo(b)fluoranthene	680	
207-08-9	Benzo(k)fluoranthene	400	J
50-32-8	Benzo(a)pyrene	370	J
193-39-5	Indeno(1,2,3-c,d)pyrene	140	J
53-70-3	Dibenzo(a,h)anthracene	64	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 ANALYSIS DATA SHEET

00007

Client

A462S3 RI

Lab Name: STL Buffalo Contract: C004154

Lab Code: RECNY Case No.: SH901 SAS No.: \_\_\_\_\_ SDG No.: 0328

Matrix: (soil/water) SOIL Lab Sample ID: A2292806RI

Sample wt/vol: 30.56 (g/mL) G Lab File ID: Y51270.RR

Level: (low/med) LOW Date Samp/Recv: 03/28/2002 03/28/2002

% Moisture: 38.2 decanted: (Y/N) N Date Extracted: 04/02/2002

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/18/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/Kg)	UG/KG	Q
191-24-2-----	Benzo(g,h,i)perylene		110	J

NYS DEC  
 NYS DEC ASP CONTRACT #C004154 - REGION 9  
 NYSDEC - SOIL - ASP 2000- SEMIVOLATILES  
 TENTATIVELY IDENTIFIED COMPOUNDS

000080

Client No.

A462S3 RI

Name: STL Buffalo

Contract: C004154

Code: RECONY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0328

Matrix: (soil/water) SOIL

Lab Sample ID: A2292806RI

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

Lab File ID: Y51270.RR

Level: (low/med) LOW

Date Samp/Recv: 03/28/2002 03/28/2002

Moisture: 38.2 decanted: (Y/N) N

Date Extracted: 04/02/2002

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 04/18/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 1.00

Cleanup: (Y/N) Y

pH: 7.1

Number TICs found: 22

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	UNKNOWN	3.65	370	J
2.	UNKNOWN	3.78	1600	J
3. 3074-71-3	2,3-DIMETHYLHEPTANE	3.90	250	JN
4.	UNKNOWN	4.16	400	J
5.	METHYL-2-BUTENAL ISOMER	4.35	580	J
6.	UNKNOWN	4.55	2200	J
7.	UNKNOWN	5.20	2500	J
8.	SUSPECTED ALDOL COND. PRODUCT	5.48	5900	ABJ
9.	UNKNOWN	5.66	560	J
10. 934-34-9	2 (3H) BENZOTHIAZOLONE	17.33	610	JN
11.	UNKNOWN ACID	18.98	730	J
12. 57-10-3	HEXADECANOIC ACID	19.08	530	JN
13. 112-80-1	OLEIC ACID	20.08	680	JN
14.	UNKNOWN	20.16	1200	J
15.	UNKNOWN	21.51	280	J
16.	UNKNOWN HYDROCARBON	21.98	650	J
17.	UNKNOWN	24.15	1000	J
18.	UNKNOWN PAH DER.	24.86	460	J
19.	UNKNOWN HYDROCARBON	25.55	380	J
20.	UNKNOWN	26.00	360	J
21.	UNKNOWN HYDROCARBON	27.01	340	J
22.	UNKNOWN	28.08	830	J

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

A4620F

Lab Name: STL Buffalo

Contract: C003785

Lab Code: RECNY

Case No.: SH901

SAS No.:

SDG No.: 0328

Matrix: (soil/water) WATER

Lab Sample ID: A2292802

Sample wt/vol: 1070 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 03/28/02

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 04/01/02

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 04/17/02

Injection Volume: 1.00 (uL)

Dilution Factor: 2.00

GPC Cleanup: (Y/N) N

pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.094	U
319-85-7	beta-BHC	0.094	U
319-86-8	delta-BHC	0.094	U
58-89-9	gamma-BHC (Lindane)	0.094	U
76-44-8	Heptachlor	0.094	U
309-00-2	Aldrin	0.094	U
1024-57-3	Heptachlor epoxide	0.094	U
959-98-8	Endosulfan I	0.094	U
60-57-1	Dieldrin	0.19	U
72-55-9	4,4'-DDE	0.19	U
72-20-8	Endrin	0.19	U
33213-65-9	Endosulfan II	0.19	U
72-54-8	4,4'-DDD	0.10	J
1031-07-8	Endosulfan sulfate	0.19	U
50-29-3	4,4'-DDT	0.055	JP
72-43-5	Methoxychlor	0.94	U
53494-70-5	Endrin ketone	0.19	U
7421-93-4	Endrin aldehyde	0.19	U
5103-71-9	alpha-Chlordane	0.094	U
5103-74-2	gamma-Chlordane	0.094	U
8001-35-2	Toxaphene	9.4	U
12674-11-2	Aroclor-1016	1.9	U
11104-28-2	Aroclor-1221	3.7	U
11141-16-5	Aroclor-1232	1.9	U
53469-21-9	Aroclor-1242	1.9	U
12672-29-6	Aroclor-1248	1.9	U
11097-69-1	Aroclor-1254	1.9	U
11096-82-5	Aroclor-1260	1.9	U



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PESTICIDE ORGANICS ANALYSIS DATA SHEET

A462L2

Lab Name: STL Buffalo Contract: C003785

Lab Code: RECNY Case No.: SH901 SAS No.: SDG No.: 0328

Matrix: (soil/water) WATER Lab Sample ID: A2292803

Sample wt/vol: 1070 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/28/02

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/01/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/17/02

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.047	U
319-85-7	beta-BHC	0.047	U
319-86-8	delta-BHC	0.047	U
58-89-9	gamma-BHC (Lindane)	0.047	U
76-44-8	Heptachlor	0.047	U
309-00-2	Aldrin	0.047	U
1024-57-3	Heptachlor epoxide	0.047	U
959-98-8	Endosulfan I	0.047	U
60-57-1	Dieldrin	0.094	U
72-55-9	4,4'-DDE	0.094	U
72-20-8	Endrin	0.094	U
33213-65-9	Endosulfan II	0.094	U
72-54-8	4,4'-DDD	0.094	U
1031-07-8	Endosulfan sulfate	0.094	U
50-29-3	4,4'-DDT	0.094	U
72-43-5	Methoxychlor	0.47	U
53494-70-5	Endrin ketone	0.094	U
7421-93-4	Endrin aldehyde	0.094	U
5103-71-9	alpha-Chlordane	0.047	U
5103-74-2	gamma-Chlordane	0.047	U
8001-35-2	Toxaphene	4.7	U
12674-11-2	Aroclor-1016	0.94	U
11104-28-2	Aroclor-1221	1.9	U
11141-16-5	Aroclor-1232	0.94	U
53469-21-9	Aroclor-1242	0.94	U
12672-29-6	Aroclor-1248	0.94	U
11097-69-1	Aroclor-1254	0.94	U
11096-82-5	Aroclor-1260	0.94	U



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1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A462L3

Name: STL Buffalo Contract: C003785  
 Code: RECNY Case No.: SH901 SAS No.: SDG No.: 0328  
 Matrix: (soil/water) WATER Lab Sample ID: A2292805  
 Sample wt/vol: 1070 (g/mL) ML Lab File ID:  
 Moisture: decanted: (Y/N) Date Received: 03/28/02  
 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/01/02  
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/17/02  
 Section Volume: 1.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

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

CAS NO. COMPOUND Q

319-84-6-----alpha-BHC	0.047	U
319-85-7-----beta-BHC	0.047	U
319-86-8-----delta-BHC	0.047	U
58-89-9-----gamma-BHC (Lindane)	0.047	U
76-44-8-----Heptachlor	0.047	U
309-00-2-----Aldrin	0.047	U
1024-57-3-----Heptachlor epoxide	0.047	U
959-98-8-----Endosulfan I	0.047	U
60-57-1-----Dieldrin	0.094	U
72-55-9-----4,4'-DDE	0.094	U
72-20-8-----Endrin	0.094	U
33213-65-9-----Endosulfan II	0.094	U
72-54-8-----4,4'-DDD	0.094	U
1031-07-8-----Endosulfan sulfate	0.094	U
50-29-3-----4,4'-DDT	0.094	U
72-43-5-----Methoxychlor	0.47	U
53494-70-5-----Endrin ketone	0.094	U
7421-93-4-----Endrin aldehyde	0.094	U
5103-71-9-----alpha-Chlordane	0.047	U
5103-74-2-----gamma-Chlordane	0.047	U
8001-35-2-----Toxaphene	4.7	U
12674-11-2-----Aroclor-1016	0.94	U
11104-28-2-----Aroclor-1221	1.9	U
11141-16-5-----Aroclor-1232	0.94	U
53469-21-9-----Aroclor-1242	0.94	U
12672-29-6-----Aroclor-1248	0.94	U
11097-69-1-----Aroclor-1254	0.94	U
11096-82-5-----Aroclor-1260	0.94	U

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

A462S2

Lab Name: STL Buffalo

Contract: C003785

Lab Code: RECNY

Case No.: SH901

SAS No.:

SDG No.: 0328

Matrix: (soil/water) SOIL

Lab Sample ID: A2292804

Sample wt/vol: 30.7 (g/mL) G

Lab File ID:

% Moisture: 30 decanted: (Y/N) N

Date Received: 03/28/02

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 04/02/02

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 04/17/02

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y

pH: 7.1

Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND	UG/KG	Q
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	2.4	U
76-44-8	Heptachlor	2.4	U
309-00-2	Aldrin	2.4	U
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	4.6	U
72-55-9	4,4'-DDE	4.6	U
72-20-8	Endrin	4.6	U
33213-65-9	Endosulfan II	4.6	U
72-54-8	4,4'-DDD	4.6	U
1031-07-8	Endosulfan sulfate	4.6	U
50-29-3	4,4'-DDT	4.6	U
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	4.6	U
7421-93-4	Endrin aldehyde	4.6	U
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	2.4	U
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	46	U
11104-28-2	Aroclor-1221	94	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	36	JP
12672-29-6	Aroclor-1248	46	U
11097-69-1	Aroclor-1254	19	JP
11096-82-5	Aroclor-1260	46	U

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000006

A462S3

Name: STL Buffalo Contract: C003785  
 Code: RECNY Case No.: SH901 SAS No.: SDG No.: 0328  
 Matrix: (soil/water) SOIL Lab Sample ID: A2292806  
 Sample wt/vol: 30.6 (g/mL) G Lab File ID:  
 Moisture: 38 decanted: (Y/N) N Date Received: 03/28/02  
 Fraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/02/02  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/17/02  
 Section Volume: 1.00 (uL) Dilution Factor: 1.00  
 Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

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

CAS NO. COMPOUND Q

319-84-6	alpha-BHC	2.7	U
319-85-7	beta-BHC	2.7	U
319-86-8	delta-BHC	2.7	U
58-89-9	gamma-BHC (Lindane)	2.7	U
76-44-8	Heptachlor	2.7	U
309-00-2	Aldrin	2.7	U
1024-57-3	Heptachlor epoxide	2.7	U
959-98-8	Endosulfan I	2.7	U
60-57-1	Dieldrin	5.2	U
72-55-9	4,4'-DDE	5.2	U
72-20-8	Endrin	1.2	JP
33213-65-9	Endosulfan II	5.2	U
72-54-8	4,4'-DDD	4.4	J
1031-07-8	Endosulfan sulfate	5.2	U
50-29-3	4,4'-DDT	6.0	P
72-43-5	Methoxychlor	27	U
53494-70-5	Endrin ketone	5.2	U
7421-93-4	Endrin aldehyde	5.2	U
5103-71-9	alpha-Chlordane	2.7	U
5103-74-2	gamma-Chlordane	2.7	U
8001-35-2	Toxaphene	270	U
12674-11-2	Aroclor-1016	52	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	52	U
53469-21-9	Aroclor-1242	52	U
12672-29-6	Aroclor-1248	52	U
11097-69-1	Aroclor-1254	55	P
11096-82-5	Aroclor-1260	52	U

NYS DEC

-1-

## INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

A4620F

Contract: NY00-096Lab Code: STL BFLOCase No.: SH901

SAS No.: \_\_\_\_\_

SDG NO.: 0328Matrix (soil/water): WATERLab Sample ID: AD205547Level (low/med): LOWDate Received: 3/28/02Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1400			P
7440-36-0	Antimony	9.6	B		P
7440-38-2	Arsenic	2.4	U		P
7440-39-3	Barium	75.2	B		P
7440-41-7	Beryllium	0.96	B		P
7440-43-9	Cadmium	1.0	B		P
7440-70-2	Calcium	128000			P
7440-47-3	Chromium	6.2	B		P
7440-48-4	Cobalt	0.90	B		P
7440-50-8	Copper	123			P
7439-89-6	Iron	3170			P
7439-92-1	Lead	121			P
7439-95-4	Magnesium	22500			P
7439-96-5	Manganese	330			P
7440-02-0	Nickel	29.9	B		P
7440-09-7	Potassium	12100		E	P
7782-49-2	Selenium	4.8	U		P
7440-22-4	Silver	0.70	U		P
7439-97-6	Mercury	0.078	U		CV
7440-23-5	Sodium	309000			P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	3.2	B		P
7440-66-6	Zinc	246			P

Color Before: GRAYClarity Before: CLEARTexture: NONEColor After: COLORLESSClarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

A462L1

Contract: NY00-096

Code: STL BFLO

Case No.: SH901

SAS No.:

SDG NO.: 0328

Matrix (soil/water): WATER

Lab Sample ID: AD205546

Level (low/med): LOW

Date Received: 3/28/02

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	236			P
7440-36-0	Antimony	8.0	B		P
7440-38-2	Arsenic	2.4	U		P
7440-39-3	Barium	677			P
7440-41-7	Beryllium	1.1	B		P
7440-43-9	Cadmium	0.40	U		P
7440-70-2	Calcium	236000			P
7440-47-3	Chromium	17.7			P
7440-48-4	Cobalt	3.4	B		P
7440-50-8	Copper	49.7			P
7439-89-6	Iron	43500			P
7439-92-1	Lead	2.6	B		P
7439-95-4	Magnesium	81000			P
7439-96-5	Manganese	693			P
7440-02-0	Nickel	6.0	B		P
7440-09-7	Potassium	183000		E	P
7782-49-2	Selenium	4.8	U		P
7440-22-4	Silver	0.70	U		P
7439-97-6	Mercury	0.078	U		CV
7440-23-5	Sodium	296000			P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	1.0	B		P
7440-66-6	Zinc	8.7	B		P

Color Before: YELLOW

Clarity Before: CLEAR

Texture: NONE

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

NYS DEC

-1-

## INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

A462L2

Contract: NY00-096Lab Code: STL BFLOCase No.: SH901

SAS No.: \_\_\_\_\_

SDG NO.: 0328Matrix (soil/water): WATERLab Sample ID: AD205548Level (low/med): LOWDate Received: 3/28/02Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	825			P
7440-36-0	Antimony	2.3	U		P
7440-38-2	Arsenic	3.1	B		P
7440-39-3	Barium	604			P
7440-41-7	Beryllium	0.91	B		P
7440-43-9	Cadmium	0.40	U		P
7440-70-2	Calcium	232000			P
7440-47-3	Chromium	4.0	B		P
7440-48-4	Cobalt	6.1	B		P
7440-50-8	Copper	11.0	B		P
7439-89-6	Iron	41900			P
7439-92-1	Lead	21.6			P
7439-95-4	Magnesium	72700			P
7439-96-5	Manganese	721			P
7440-02-0	Nickel	8.3	B		P
7440-09-7	Potassium	68800		E	P
7782-49-2	Selenium	4.8	U		P
7440-22-4	Silver	0.70	U		P
7439-97-6	Mercury	0.078	U		CV
7440-23-5	Sodium	87700			P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	2.8	B		P
7440-66-6	Zinc	23.1			P

Color Before: YELLOWClarity Before: CLEARTexture: NONEColor After: YELLOWClarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NYS DEC

-1-

## INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

A462L3

Contract: NY00-096

Code: STL BFLO

Case No.: SH901

SAS No.:

SDG NO.: 0328

Matrix (soil/water): WATER

Lab Sample ID: AD205549

Level (low/med): LOW

Date Received: 3/28/02

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	319			P
7440-36-0	Antimony	3.2	B		P
7440-38-2	Arsenic	2.4	U		P
7440-39-3	Barium	903			P
7440-41-7	Beryllium	1.2	B		P
7440-43-9	Cadmium	0.40	U		P
7440-70-2	Calcium	235000			P
7440-47-3	Chromium	5.4	B		P
7440-48-4	Cobalt	3.7	B		P
7440-50-8	Copper	0.90	U		P
7439-89-6	Iron	40600			P
7439-92-1	Lead	9.8			P
7439-95-4	Magnesium	80200			P
7439-96-5	Manganese	706			P
7440-02-0	Nickel	6.2	B		P
7440-09-7	Potassium	192000		E	P
7782-49-2	Selenium	4.8	U		P
7440-22-4	Silver	0.70	U		P
7439-97-6	Mercury	0.078	U		CV
7440-23-5	Sodium	314000			P
7440-28-0	Thallium	4.2	U		P
7440-62-2	Vanadium	1.0	B		P
7440-66-6	Zinc	18.2	B		P

Color Before: YELLOW

Clarity Before: CLEAR

Texture: NONE

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

A46282

Contract: NY00-096

Lab Code: STL BFLO

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG NO.: 0328

Matrix (soil/water): SOIL

Lab Sample ID: AD205508

Level (low/med): LOW

Date Received: 3/28/02

% Solids: 70

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5420			P
7440-36-0	Antimony	0.86	B	N	P
7440-38-2	Arsenic	4.6			P
7440-39-3	Barium	70.3		*	P
7440-41-7	Beryllium	0.37	B		P
7440-43-9	Cadmium	0.06	U		P
7440-70-2	Calcium	17100		E	P
7440-47-3	Chromium	19.1		N*	P
7440-48-4	Cobalt	4.0	B		P
7440-50-8	Copper	21.1			P
7439-89-6	Iron	20400		E	P
7439-92-1	Lead	79.1		NE*	P
7439-95-4	Magnesium	4950			P
7439-96-5	Manganese	140		N	P
7440-02-0	Nickel	18.1		*	P
7440-09-7	Potassium	835			P
7782-49-2	Selenium	2.0			P
7440-22-4	Silver	0.10	U		P
7439-97-6	Mercury	0.193		N	CV
7440-23-5	Sodium	113	B		P
7440-28-0	Thallium	0.63	U		P
7440-62-2	Vanadium	11.9			P
7440-66-6	Zinc	86.8		E	P

Color Before: BROWN

Clarity Before: N/A

Texture: SILT

Color After: YELLOW

Clarity After: CLOUDY

Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
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NYS DEC

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

A46283

tract: NY00-096

Code: STL BFLO

Case No.: SH901

SAS No.:

SDG NO.: 0328

rix (soil/water): SOIL

Lab Sample ID: AD205512

al (low/med): LOW

Date Received: 3/28/02

olids: 62

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10100			P
7440-36-0	Antimony	1.3	B	N	P
7440-38-2	Arsenic	4.3			P
7440-39-3	Barium	112		*	P
7440-41-7	Beryllium	0.62	B		P
7440-43-9	Cadmium	0.06	U		P
7440-70-2	Calcium	39300		E	P
7440-47-3	Chromium	19.5		N*	P
7440-48-4	Cobalt	7.0	B		P
7440-50-8	Copper	60.5			P
7439-89-6	Iron	23300		E	P
7439-92-1	Lead	171		NE*	P
7439-95-4	Magnesium	16000			P
7439-96-5	Manganese	265		N	P
7440-02-0	Nickel	19.5		*	P
7440-09-7	Potassium	2180			P
7782-49-2	Selenium	2.0			P
7439-97-6	Mercury	0.170		N	CV
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	215	B		P
7440-28-0	Thallium	0.67	U		P
7440-62-2	Vanadium	22.2			P
7440-66-6	Zinc	142		E	P

olor Before: BROWN

Clarity Before: N/A

Texture: SILT

olor After: YELLOW

Clarity After: CLOUDY

Artifacts:

omments:

NYS DEC  
 NYS DEC ASP Contract #C004154 - Region 9  
 Wet Chemistry Analysis

000093

Client Sample No.

A462L1

Lab Name: SIL Buffalo

Contract: C004154

Lab Code: REONY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0328

Matrix (soil/water): WATER

Lab Sample ID: A2292801

% Solids: 0.0

Date Samp/Recv: 03/28/2002 03/28/2002

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analy Date
Cyanide - Total	MG/L	0.010	U			CLP-WC	04/03/

Comments:

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NYS DEC  
NYS DEC ASP Contract #C004154 - Region 9  
Wet Chemistry Analysis

000034

Client Sample No.

A4620F

Name: STL Buffalo

Contract: C004154

Code: RECNY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0328

Matrix (soil/water): WATER

Lab Sample ID: A2292802

Sludge: 0.0

Date Samp/Recv: 03/28/2002 03/28/2002

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Amide - Total	MG/L	0.010	U			CLP-WC	04/03/2002

Comments:

NYS DEC  
NYS DEC ASP Contract #C004154 - Region 9  
Wet Chemistry Analysis

00003

Client Sample No.

A462L2

Lab Name: STL Buffalo

Contract: C004154

Lab Code: REONY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0328

Matrix (soil/water): WATER

Lab Sample ID: A2292803

% Solids: 0.0

Date Samp/Recv: 03/28/2002 03/28/200

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analy Date
Cyanide - Total	MG/L	0.010	U			CLP-WC	04/03/

Comments:

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NYS DEC  
 NYS DEC ASP Contract #C004154 - Region 9  
 Wet Chemistry Analysis

000096

Client Sample No.

A462S2

Location Name: STL Buffalo

Contract: C004154

County Code: RECONY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0328

Matrix (soil/water): SOIL

Lab Sample ID: A2292804

Solids: 0.0

Date Samp/Recv: 03/28/2002 03/28/2002

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/KG	0.50	U			CLP-WC	04/03/2002
leachable pH	S.U.	7.05				9045	03/29/2002

Comments:

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NYS DEC  
NYS DEC ASP Contract #C004154 - Region 9  
Wet Chemistry Analysis

00003

Client Sample No.

A462L3

Lab Name: STL Buffalo

Contract: C004154

Lab Code: RECNY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0328

Matrix (soil/water): WATER

Lab Sample ID: A2292805

% Solids: 0.0

Date Samp/Recv: 03/28/2002 03/28/2002

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analysis Date
Cyanide - Total	MG/L	0.012				CLP-WC	04/03/02

Comments:

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NYS DEC  
 NYS DEC ASP Contract #C004154 - Region 9  
 Wet Chemistry Analysis

000098

Client Sample No.

A462S3

Name: STL Buffalo

Contract: C004154

Code: REONY

Case No.: SH901

SAS No.: \_\_\_\_\_

SDG No.: 0328

Matrix (soil/water): SOIL

Lab Sample ID: A2292806

Solids: 0.0

Date Samp/Recv: 03/28/2002 03/28/2002

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Ammonide - Total	MG/KG	0.50	U			CLP-WC	04/03/2002
Reachable pH	S.U.	7.11				9045	03/29/2002

Comments:

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