URS

RCRA CLOSURE CERTIFICATION REPORT GE - TONAWANDA INSPECTION AND REPAIR SERVICE CENTER

SEPTEMBER 19, 2002

Prepared for:

GENERAL ELECTRIC
INTERNATIONAL, INC.
TONAWANDA, NEW YORK

Prepared by:

URS CORPORATION – NEW YORK
646 PLANK ROAD, SUITE. 202
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URS

September 19, 2002

Ms. Kathleen Emery
New York State Department of
Environmental Conservation, Region 9
Division of Solid and Hazardous Materials
270 Michigan Avenue
Buffalo, New York 14203-2999

Re: *RCRA Closure Certification Report*
RCRA Container Storage Area
Tonawanda, New York

Dear Ms. Emery:

On behalf of General Electric International, Inc. (GE), URS Corporation – New York (URS) is submitting the attached *RCRA Closure Certification Report* for the RCRA container storage area at GE's Inspection and Repair Service Center in Tonawanda, New York. GE has closed their RCRA container storage area in general accordance with the New York State Department of Environmental Conservation (NYSDEC) approved *Revised RCRA Closure Plan*, dated January 4, 2002. After NYSDEC accepts the *RCRA Closure Certification Report*, GE will discuss with NYSDEC modifying the *6 NYCRR Part 373 Hazardous Waste Management Permit* (*373 Permit*), which was issued by the NYSDEC in May 1996, for the Tonawanda service center.

If you have any questions regarding this material, please contact Dawn Varacchi of GE at (508) 836-6728 or Don Porterfield of URS at (518) 688-0015.

Very truly yours,
URS CORPORATION – NEW YORK

Karen Peppin
Staff Engineer

Don Porterfield, P.E.
Manager – Clifton Park

Attachment
cc: Mr. Stephen Malsan – NYSDEC
USEPA – RCRA Programs
USEPA – RCRA Records
Ms. Dawn Varacchi – GE
Mr. Tony Hejmanowski – GE

URS Corporation
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Tel: 518.688.0015
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ENGINEERING CERTIFICATION

I, Don Porterfield, a Professional Engineer in the State of New York, hereby certify that the closure activities for the RCRA container storage area for the General Electric facility located at 175 Milens Road, Tonawanda, New York have to the best of my knowledge and belief, been completed in accordance with the applicable provisions of the *Revised RCRA Closure Plan* (URS Corporation – New York, January 4, 2002), except as described in this report.

This conclusion is based on my detailed review of the documentation of the work performed, observations made by URS Corporation – New York employees, information provided by URS Corporation subcontractors, and information provided by the remediation contractor for the project, MARCOR Environmental, Inc.

By Don Porterfield Date 9/19/02

New York Professional Engineer License No. 071402

Don Porterfield
URS Corporation – New York
646 Plank Road, Suite 202
Clifton Park, New York 12065

(518) 688-0015

OPERATOR CERTIFICATION

I, Anthony H. Hejmanowski, Environmental Health and Safety Coordinator for the General Electric International, Inc. Tonawanda Inspection and Repair Service Center, hereby certify that the closure activities for the RCRA container storage area for the General Electric facility located at 175 Milens Road, Tonawanda, New York have to the best of my knowledge and belief, been completed in accordance with the applicable provisions of the *Revised RCRA Closure Plan* (URS Corporation – New York, January 4, 2002), except as described in this report.

This conclusion is based on my personal observations, detailed review of the documentation of the work performed, observations made by URS Corporation – New York employees, information provided by URS Corporation subcontractors, and information provided by the remediation contractor for the project, MARCOR Environmental, Inc.

By Anthony H. Hejmanowski Date 9/18/02

Anthony H. Hejmanowski
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1.0 INTRODUCTION

On behalf of General Electric International, Inc. (GE), URS Corporation – New York (URS) has prepared this *RCRA Closure Certification Report (RCCP)* for the hazardous waste storage area at GE's Tonawanda Inspection and Repair Service Center. This work was conducted in general accordance with the *Revised RCRA Closure Plan*, dated January 4, 2002, and approved by New York State Department of Environmental Conservation (NYSDEC) in a letter dated February 13, 2002.

Section 2.0 describes the site and provides other background information regarding the site. The remainder of this report describes closure actions. Section 3.0 describes the objectives of the *RRCP*. Section 4.0 provides an overview of the closure process and Section 5.0 provides the detailed description of closure procedures. Section 6.0 presents the conclusions.

2.0 BACKGROUND

GE's Tonawanda Inspection and Repair Service Center is located at 175 Milens Road, Tonawanda, New York. As shown in Figure 1, the shop is in an urban area that includes some commercial businesses and other industries. GE built the slab-on-grade building in 1968 and 1969 and expanded the building in 1978. GE uses the service center, which is also known as the Buffalo Service Shop, to repair industrial equipment, such as electric motors, transformers, turbines, pumps, and compressors. During operations at the shop, GE generates hazardous wastes.

GE operated a RCRA Container Storage Area (RCRA CSA) in a covered area adjacent to their Tonawanda service shop building until initiating closure of the unit. GE had used the RCRA CSA to store 55-gallon steel drums since 1980. The maximum capacity of the storage area was 36 drums. As shown in Figure 2, the RCRA CSA is on the northeast side of the service shop.

Prior to August 2000, GE operated an approved commercial PCB storage area inside their Tonawanda service shop. GE had used the PCB storage area to service PCB-containing equipment and to store PCB wastes generated from their activities at the shop prior to shipping the PCB wastes to appropriately licensed disposal facilities. As shown in Figure 2, the PCB storage area is in the southeast corner of the shop. The PCB storage area is currently being closed in accordance with the *Revised Closure Plan*, dated June 28, 2000.

2.1 PERMITS

In New York State, the Resource Conservation and Recovery Act (RCRA) program, which regulates hazardous wastes, is administered by the New York State Department of Environmental Conservation (NYSDEC). GE maintains a *6 NYCRR Part 373 Hazardous Waste Management Permit* (*373 Permit*), which was issued by the NYSDEC in May 1996, for the Tonawanda service shop. The *373 Permit* covers both the PCB Storage

Area, which is currently being closed separately in accordance with the approved *Revised Closure Plan*, dated June 28, 2000, and the RCRA CSA. The *373 Permit* allows GE to store hazardous wastes that contain volatile organic compounds (VOCs) and metals in the RCRA CSA on the northeast side of the building (Figure 2). GE does not treat or dispose hazardous or solid wastes at the site.

In 1996, the United States Environmental Protection Agency (EPA) issued a permit for GE to operate a hazardous waste storage facility at their Tonawanda service shop. The approval, which was issued by the EPA under the Hazardous and Solid Waste Amendments (HSWA) of 1984, was set to expire on November 14, 2001. The *HSWA of 1984 Permit* allows GE to store hazardous wastes that contain metals. This permit was originally issued by the EPA because the NYSDEC did not have jurisdiction for all the types of hazardous wastes handled by GE.

The *HSWA of 1984 Permit*, in conjunction with the *373 Permit*, comprise the RCRA permit for the Tonawanda facility. GE's operations at their Tonawanda shop have changed since the permits were issued. Consequently, GE elected to revise the 1994 *Closure Plan* for the RCRA CSA to reflect the changes in operational status of the facility. The *Revised RCRA Closure Plan (RRCP)*, prepared by URS, was submitted to the NYSDEC and EPA on January 4, 2002. The NYSDEC approved the *RRCP* in a letter, dated February 13, 2002. A copy of the approved *RRCP* is provided as Appendix A and a copy of the NYSDEC approval letter is provided as Appendix B.

2.2 DESCRIPTION OF RCRA CONTAINER STORAGE AREA

As shown in Figure 2, GE's RCRA CSA is along the northeast side of the Tonawanda service shop. The area is 32 feet long and 11 feet wide. The unit consists of a concrete pad with a concrete curb that provides secondary containment. The floor and curbs of the storage area are sealed with epoxy. A galvanized metal roof and fiberglass walls protect the storage area from rain. The roof and siding were installed in 1986. Security is provided by a locking fence surrounding three sides of the area. On the west side of the

storage area, the wall of the shop building forms the fourth side of the RCRA CSA. The storage area is inspected weekly for signs of leaks or deterioration.

GE has used the RCRA CSA to store 55-gallon steel drums since 1980. GE has used this area to store wastes with EPA Hazardous Waste Numbers D001, D002, D004, D005, D006, D007, D008, D009, D010, D011, F001, F003, and F005. The maximum capacity of the storage area is 36 drums.

2.3 RCRA CORRECTIVE ACTION

In accordance with the terms of the *373 Permit*, GE has begun Corrective Action at the site. Module III of GE's *373 Permit* requires Corrective Actions for all releases of hazardous wastes or constituents from any Solid Waste Management Units (SWMUs) or Areas of Concern (AOCs). Module III of the *373 Permit* lists eight SWMUs and AOCs at the Tonawanda shop. These eight units, which are shown in Figure 2, are:

- RCRA Container Storage Area
- PCB Container Storage Area
- PCB Work Area
- Former Rinse Water Underground Storage Tank
- Old Oil/Water Separator
- New Oil/Water Separator
- Floor Drains and Sewers
- Rail Spur

GE completed the RCRA Facility Assessment (RFA) in 1988 and the RCRA Facility Investigation (RFI) in 1998. The RFI was submitted to the NYSDEC April 2, 1999 and a copy was sent to Mr. James Reidy of the EPA. A Corrective Measure Study (CMS) was completed in 2000 and a *Revised Corrective Measure Study Final Report* (*Revised CMS)* was submitted to NYSDEC July 31, 2001.

The results of the RFI indicate that the concentrations of selected constituents (primarily PCBs) at the Tonawanda shop exceed the recommended soil cleanup objectives (RSCOs) published by the NYSDEC in TAGM HWR-94-4046. The RFI included placement of four soil borings around the perimeter of the RCRA CSA. The only constituent of concern that was detected in these soil borings was a single VOC, which was detected and at a concentration less than its RSCO. The RFI concluded that no further investigation was warranted near the RCRA CSA.

3.0 OBJECTIVES

The objective of this *RCRA Closure Certification Report* is to document that the closure of the RCRA CSA at the GE Inspection and Repair Center at 175 Milens Road has been completed in accordance with the NYSDEC-approved *RCRA Closure Plan*. The instances in which the work deviated slightly from the plan are noted and discussed. This report also documents that the surface of the area has been adequately cleaned and that the soil beneath the RCRA CSA has not been impacted by site activities.

In accordance with the *RRCP*, analytical results for samples collected during closure activities have been compared to values outlined in the guidance documents listed below to evaluate whether the soil beneath the RCRA CSA had been impacted and that the surface of the area had been cleaned.

Media – Compound	Location	Comparison Value
Soil – VOCs	Beneath RCRA CSA	NYSDEC's Recommended Soil Cleanup Objectives (RSCOs)*
Soil – Metals	Beneath RCRA CSA	Greater of NYSDEC's RSCOs or Site Background
Rinsate – VOCs	Within RCRA CSA	NYSDEC's Groundwater Standards**
Rinsate – Metals	Within RCRA CSA	NYSDEC's Groundwater Standards**

*NYSDEC's RSCOs as provided in Technical and Administrative Guidance Memorandum (TAGM) HWR-94-4046.

**NYSDEC's groundwater standards as provided in 6 NYCRR Part 703.

4.0 SCOPE OF WORK

This section describes the scope of work for closure of the RCRA CSA. In addition to providing a summary of the tasks involved in the closure this section provides descriptions of the sample collection and analysis methods that were included in the *RRCP*.

4.1 SUMMARY OF CLOSURE ACTIVITIES

GE retained Marcor to act as the remediation contractor for cleaning the RCRA CSA. URS provided construction oversight and has prepared this certification report. GE handled disposal of the final stored waste and waste generated during closure activities. The scope of the RCRA CSA closure activities included these seven tasks:

- Dispose final waste;
- Clean RCRA CSA;
- Collect rinsate samples;
- Reclean the northern portion of the CSA;
- Collect rinsate samples;
- Collect soil samples; and
- Dispose closure derived waste.

These activities are described in Section 5.0.

4.2 SAMPLE COLLECTION, ANALYSIS, AND DOCUMENTATION

In addition to providing construction oversight, URS collected confirmatory rinsate and soil samples for laboratory analysis as required in the *Revised RCRA Closure Plan*. The remainder of this section describes the sample collection procedures and the analytical methods that were included in the *RRCP*. The sample collection procedures and

analytical procedures used during the closure activities conformed with the *Revised RCRA Closure Plan* except as noted in Section 5.0

4.2.1 Sampling Protocol

This section describes the planned protocol for each of the sample types collected during closure. The *RRCP* called for each sample to be assigned a unique sample identification related to the location from which it was collected. If an obstruction prevented the collection of any sample from a designated location, the location was to be adjusted in the field, and the sample collected as close as practical to the designated location.

The procedures in the *RRCP* called for the samples to be transferred to containers provided by the analytical laboratory, and submitted under proper chain of custody for analyses. The samples were to be chilled to a temperature of 4° centigrade during transport to a laboratory and analyzed for VOCs using EPA Method 8260 and RCRA metals using EPA Method 6010.

The *RRCP* called for all sampling equipment to be decontaminated between sampling locations. The decontamination procedures described in the *RRCP* for the core barrel, hand auger, and any other non-disposable sampling equipment included washing with liquinox, rinsing with distilled water, then washing with hexane, and rinsing with distilled water.

Rinsate Samples

The *RRCP* included collection of rinsate samples from the floor of the RCRA CSA after it was cleaned. The procedures in the *RRCP* called for:

- Setting up temporary berms on the storage area floor;
- Placing a minimum quantity of de-ionized water within the berm and allowing it to sit for 10 minutes;.

- Recording the quantity of de-ionized water used and the temperature of the area and the de-ionized water;
- Collecting the water sample (rinsate) using a sterile pipette supplied by the laboratory; and
- Measuring the wetted area for each sampling location.

In addition, the closure plan called for collecting the sample for VOC analysis prior to collecting the sample for metal analysis. A duplicate sample was not required.

Soil Samples

The soil sampling procedures described in the *RRCP* called for collecting the soil samples from borings with a hand auger following these guidelines:

- Advancing the borings no more than four feet below the base of the slab;
- Collecting the soil samples from as close as practical below the base of the slab; and
- Collecting the soil samples from below the gravel subbase.

In addition, the closure plan stated that residual soil would be used to backfill the soil boring and that the concrete surface would be patched.

Determining Metal Background Levels

The *RRCP* called for collecting soil samples from four locations west of the building in order to establish site-specific background levels for metals. According to the plan, selection of sampling locations and sampling methods called for:

- Avoiding obstacles such as utilities and sidewalks;
- Selecting areas least likely to have been impacted by recent or historic site activities;

- Collecting the samples from approximately one-foot below ground surface and from similar material as the soils beneath the CSA;
- Using either a hand auger or small spade for sample collection; and
- Submitting the samples to the laboratory for RCRA metals analysis by EPA Method 6010.

The *RCCP* called for calculation of site-specific maximum background concentrations for each metal as the mean plus three standard deviations. This approach for establishing background concentrations is based on the EPA's *Determination of Background Concentration of Inorganics in Soils and Sediments at Hazardous Waste Sites*, published in December 1995. The closure plan stated that the calculated site-specific maximum background concentrations would be used to evaluate the concentrations of metals encountered in soil sample collected from beneath the RCRA CSA through comparison with the greater of the site-specific maximum background concentrations or the NYSDEC RSCO.

4.2.2 Quality Control and Quality Assurance

The *RRCP* called for these quality control and quality assurance measures:

- Collecting field blanks for each day of sampling;
- Collecting duplicate samples at the rate of one duplicate sample per 20 samples for each type of sample collected; and
- Submitting a sample of the de-ionized water for metal and VOC analysis.

5.0 CLOSURE ACTIVITIES

This section describes the closure activities. Pictures showing closure activities are provided in Appendix C. URS personnel observed some minor staining and cracking of the concrete floor of the CSA. URS noted that the cracks had been filled with a poly sealer.

5.1 TASK 1 – DISPOSE FINAL WASTE

GE personnel handled the disposal of the last waste stored in the RCRA CSA. On April 10, 2002, Clean Harbors Environmental Services Inc. picked up the last waste stored in the RCRA CSA for disposal at Spring Grove Resource Recovery in Cincinnati, Ohio. A copy of the waste manifest is provided in Appendix D.

5.2 TASK 2 – CLEAN RCRA CSA

On June 19, 2002, GE's contractor, Marcor of Rochester, New York, mobilized to the site to clean the RCRA CSA. URS was present to observe and document the cleaning. In addition, Ms. Kathleen Emery of the NYSDEC visited the site and observed a portion of the cleaning activities.

Marcor began cleaning the storage area by sweeping up solid debris, such as dirt, paper, and other debris. The solid debris was kept separate and placed into a five gallon lidded pail and labeled for later disposal.

Next, Marcor washed the area with a hot water pressure washer rated for 3,000 pounds per square inch (psi). Use of a hot water pressure washer instead of a steam pressure washer was a slight deviation from the *RRCP*. As illustrated by the rinsate sampling analytical results (discussed in Section 5.3 and 5.5) the equipment used adequately cleaned the surfaces of the storage area. Therefore, this deviation from the *RRCP* did not affect the outcome of the closure activities.

Marcor washed both the building wall and the floor of the storage area. During washing, the distance between the pressure head and the surface varied. For the wall, the wash head was kept approximately 6 to 12 inches from the surface. For the floor of the CSA, the distance between the wash head and surface was approximately one to two feet. Marcor used a vacuum unit mounted on an open-top 55-gallon drum to collect the wash water. Two 55-gallon drums of wash water were generated during the cleaning. The drums were labeled and left within the area for GE to coordinate disposal.

5.3 TASK 3 – COLLECT RINSATE SAMPLES

On June 19, 2002, URS personnel collected rinsate samples from the floor of the RCRA CSA in general accordance with the procedures described in the NYSDEC approved *Revised RCRA Closure Plan*. Planned sampling procedures are described in Section 4.2. The sampling procedures were followed with these four exceptions:

- The wetted area was estimated rather than measured. The estimated area was approximately eight inches in diameter or 0.35 square feet).

- The temperature of the de-ionized water was not recorded. The ambient air temperature was 76 degrees Fahrenheit.

- The volume of de-ionized water pooled was not measured. The volume was estimated to approximately 1,600 milliliters.

- A large sterile, disposable syringe (approximately 60 cubic centimeters) instead of a sterile pipette was used to collect the samples.

URS does not believe that these exceptions had a negative impact on sample integrity or the results. The guidelines for rinsate sampling provided by the NYSDEC, upon which the rinsate sampling procedures in the *RRCP* were based, did not include target ranges for

sampling area size, volume of water to be pooled, temperature of water, or a desired ratio of water volume to sample area. The temperature of the water was likely comparable to the temperature of ambient air (76 degrees Fahrenheit), which is sufficiently high to allow constituents in the floor to dissolve in the pooled water. The use of the large syringe, rather than a pipette, was an intentional deviation to minimize the loss of VOCs to the atmosphere during sampling. The syringe allowed sample water to be collected and transferred into the sampling vials more rapidly and with less turbulent flow than would have occurred with a pipette.

Three rinsate samples were collected (CSA-1, CSA-2, CSA-3) from the floor of the RCRA CSA. The sampling locations are shown on Figure 3. In addition, an equipment blank and a rinse blank were collected. The samples were analyzed for VOCs and metals in accordance with the *RRCP*. A trip blank accompanied the samples to the laboratory. The laboratory analytical report is provided in Appendix E.

The analytical results for of the rinsate samples for VOCs and metals are presented in Tables 1 and 2, respectively. In accordance with the *RRCP*, the analytical results were compared to NYSDEC groundwater standards. As shown in Table 1, the only VOCs detected in the samples (acetone, methylene chloride, and toluene) were detected at concentrations less than NYSDEC groundwater standards. Methylene chloride was also detected in the laboratory blank. As shown in Table 2, chromium was the only metal detected at a concentration greater than NYSDEC groundwater standards. A concentration of chromium (0.35 micrograms per liter (µg/L)) detected in sample CSA-1, which was collected from northern third of the storage area, exceeded the groundwater standard for chromium (0.05 µg/L).

Based on the analytical results, the middle and southern portions of the RCRA CSA were adequately cleaned. The analytical results for the northern third of the area did not meet the closure plan objectives. Therefore, GE elected to reclean the northern third of the area.

5.4 TASK 4 – RECLEAN NORTHERN PORTION OF RCRA CSA

On July 11, 2002, Marcor and URS mobilized to the site to reclean and resample the northern portion of the RCRA CSA.

Marcor used a 3,000 psi hot water pressure washer with a 45-degree wash head and a scrub brush to clean the northern third of the RCRA CSA. The wash head was held approximately three feet from the surface during cleaning. A vacuum mounted on an open-topped 55-gallon drum was used to collect the wash water.

The use of a hot water pressure washer was a minor deviation from the *RRCP*. As discussed in Section 5.2, the analytical results from the rinsate samples collected after cleaning (discussed in Section 5.3 and 5.5) illustrate that the equipment adequately cleaned the RCRA CSA.

In addition, Marcor transferred the wash water generated during both cleanings to closed-top 55-gallon drums. The open-top drums were rinsed and the rinse water was collected in the closed drums. A total of three 55-gallon drums of wash water were generated during the two cleaning events. In addition, one partially full drum (open-topped) of used personnel protective equipment (PPE) and solids and one 5-gallon bucket of solid debris was generated.

5.5 TASK 5 – COLLECT RINSATE SAMPLES

On July 11, 2002, URS collected a rinsate sample from a location, which was directly adjacent to the sample collected after the first washing, in the northern portion of the RCRA CSA in general accordance with the procedures described in the NYSDEC approved *Revised RCRA Closure Plan*. Planned sampling procedures are described in Section 4.2. The sampling procedures were followed with these four exceptions:

- The temperature of de-ionized water was not recorded. Ambient air temperature was 70 degrees Fahrenheit.

- The volume of de-ionized water pooled was not measured. However, the volume was estimated to be approximately 500 milliliters.

- The de-ionized water was pooled in the sampling area for approximately 7 minutes instead of 10 minutes because a tight seal could not be achieved at the desired sampling location. After the spillblocker was readjusted to reduce the leakage rate, additional distilled water was added.

- A large sterile and disposable syringe (approximately 60 cubic centimeters) instead of a sterile pipette was used to collect the samples.

URS does not believe these deviations in sampling procedures invalidate the analytical results. As discussed in Section 5.3, the rinsate sampling guidelines, provided by the NYSDEC, upon which the sampling procedures in the *RRCP* were based, did not specify target ranges for water temperature, volume of water to be pooled, or a ratio of sample area to water volume. The temperature of the water was likely comparable to the temperature of ambient air (70 degrees Fahrenheit), which is sufficiently high to allow constituents in the floor to dissolve in the pooled water. The shorter contact time between the pooled de-ionized water and the floor of the CSA was necessary in order to minimize the addition of makeup water prior to sample collection. As discussed in Section 5.3, a large syringe was selected for collecting the samples because less volatilization of VOCs would occur during sampling than if a pipette were used for sampling.

One rinsate sample was collected (CSA-1) from the floor of the northern portion of the RCRA CSA. The sampling location is shown on Figure 4. In addition, an equipment blank and a rinse blank were collected. The samples were analyzed for VOCs and

metals in accordance with the *RRCP*. A trip blank accompanied the samples to the laboratory. The laboratory analytical report is provided in Appendix E.

The analytical results for VOCs and metals are presented in Tables 3 and 4, respectively. In accordance with the *RRCP*, the analytical results were compared to NYSDEC groundwater standards. As shown in Table 3, most VOCs were not detected in the samples. The compound detected, methylene chloride, was detected at a concentration less than NYSDEC groundwater standards. As shown in Table 4, chromium and barium were the only metals detected. These metals were detected at concentrations less than their respective NYSDEC groundwater standards.

Based on the analytical results for the sample collected after the northern third of the storage area was recleaned, the northern portion of the RCRA CSA has also been adequately cleaned.

5.6 TASK 6 – COLLECT SOIL SAMPLES

On July, 30, 2002, URS personnel met with Ms. Emery of the NYSDEC at the site to select the locations within the RCRA CSA that would be cored in order to obtain soil samples from beneath the storage area. The two locations selected are shown on Figure 5. The northern sampling location (CORE B-1) was placed along the wall at the junction of four cracks and the southern sampling location (CORE B-2) was placed at the junction of three cracks. URS personnel also selected four locations west of the building from which soil samples would be collected to establish site-specific metal background concentrations. On August 1, 2002, URS personnel mobilized to the site to collect soil samples from beneath the RCRA CSA and from the west side of the shop building.

The approximate background sampling locations west of the building (BKG B-1, BKG B-2, BKG B-3, and BKG B-4) are shown on Figure 2. The four soil samples from the west of the building were collected from the 0 to 1 foot below ground surface horizon.

The background samples were mostly brown topsoil (dry) with some silty clay present in soil sample BKG B-1. No odor or discoloration was observed.

In order to collect soil samples from beneath the RCRA CSA, holes were drilled through the concrete floor using a 6-inch diameter diamond toothed core barrel attached to a Milwaukee coring machine. The soil samples were collected using a hand auger. Figure 5 provides the sampling locations (CORE B-1 and CORE B-2) and cross sections of each core hole.

The stratigraphy encountered at location CORE B-1, from the surface down, was: four inch thick concrete, three inches of gravel subbase, followed by a clayey silt, silty clay soil. The total depth of the hole was 12 inches. The soil was brown with black mottles, possibly staining, and was moist. The stratigraphy encountered at location CORE B-2, from surface to depth, was: 3.5 inch thick concrete, 1.5 inches of gravel subbase, followed by silty clay. The total depth of the hole was ten inches. The soil was brown with black mottles, possibly staining. An odor was noted, but was unfamiliar to the field personnel and may have originated from a source other than the soil. The odor was not a petroleum-type odor.

The samples were collected in general accordance with the *RRCP*, except as discussed below.

- The sampling equipment was decontaminated with Alconox and de-ionized water instead of being washed with Liquinox, rinsed with distilled water, then washed with hexane, and rinsed with distilled water. Alconox and Liquinox are brand names for similar cleaning agents. Rinsing with de-ionized water rather than distilled water is a better method when samples will be analyzed for metals. As the sampling program did not include analyses for organics such as PCBs, URS personnel judged that the alconox and de-ionized water would provide sufficient decontamination.

- The core barrel was not decontaminated prior to use. The diamond blades of the core barrel were extremely sharp. URS determined the risk of injury during decontamination outweighed the benefits of decontaminating a piece of equipment that would have no direct contact with the sample media (soil). URS believes that because there was no contact between the core barrel and the soil that was sampled, this deviation did not impact sample integrity.

- The background soil samples were not collected after the soil samples from beneath the storage area. Due to difficulties with the coring equipment, the background samples were collected while the concrete floor in the RCRA CSA was cored.

- The background soil samples consisted of mostly topsoil with some silty clay rather than all silty clay like the soil beneath the storage area. Based on available information, it is likely that the topsoil in this part of the site has existed in its present location for more than 20 years. In addition, based on our review of the 1986 soil survey, the native topsoil in the area is Schoharie Silt Loam that is derived from reddish glacial lake sediments that are high in clay. The native silty clays found at the site are glaciolacustrine. URS believes that the metal content of the topsoil is similar to the metal content of the silty clay soil.

- A duplicate soil sample was not collected. This was an oversight by URS personnel. However, given that collection of a duplicate sample would require a greater depth interval than was used for sampling, the results of the soil samples collected had a greater probability of containing contaminants of concern than if a greater depth interval was sampled in order to obtain the duplicate sample. This is particularly likely for two reasons. First, because the soil encountered below the CSA was native clay any potential release from the CSA would likely be limited to the uppermost portion of the clay. Second, because a small portion of the soil was black, possibly mottling or the result of staining, less of this material would have been included in each sample if a sample and a duplicate sample had both been collected.

The background soil samples were analyzed for RCRA metals. The soil samples from beneath the storage area were analyzed for VOCs and RCRA metals. The laboratory analytical report is provided in Appendix E.

The background samples were analyzed for RCRA metals in order to establish site-specific background concentrations for metals. In accordance with the *RRCP*, site-specific maximum background concentrations were calculated for each metal as the mean plus three standard deviations. Table 5 presents the analytical results for these samples and calculation of the site-specific maximum background concentration for each metal.

The analytical results for VOCs and metals for the soil samples collected from beneath the RCRA CSA are provided in Tables 6 and 7, respectively. As shown in Table 6, acetone and methylene chloride were the only VOCs detected in the soil samples. Methylene chloride was also detected in the laboratory blank. The concentrations detected are below the NYSDEC Recommended Cleanup Objective (RSCO) for each compound.

The analytical results for metals for the soil samples collected from beneath the RCRA CSA are presented in Table 7 along with the NYSDEC RSCO and site-specific maximum background concentration for each compound. As shown, the concentrations of each detected metal are less than the site-specific maximum background concentration for each metal in both samples.

Based on the analytical results, the soil beneath the RCRA CSA has not been impacted by site activities. This sampling, in conjunction with the soil sampling conducted around the perimeter of the RCRA CSA during the RFI, demonstrates that there has been no release from the storage area.

5.7 TASK 7 – DISPOSE OF CLOSURE DERIVED WASTE

During closure activities, a total of four 55-gallon drums and one five-gallon bucket of closure derived waste were generated. Three of the drums contained wash water. One of the drums contained solid debris such as used personal protective equipment (PPE). The bucket contained solid debris such as dirt and paper swept up from the storage area floor and the berms used to pool rinsate water for sampling. GE site personnel have been handling sampling and disposal of this waste.

Closure derived waste has been handled in general accordance with the *RRCP*, except that the waste has not yet been disposed. The waste was scheduled to be picked up for disposal on September 18, 2002. However, the transportation and disposal facility, Clean Harbors, changed their pickup schedule. A new date has not yet been set for the waste removal. After the waste has been disposed, documentation of waste disposal will be provided to NYSDEC and EPA.

6.0 CONCLUSIONS

URS concludes that the RCRA CSA at GE's Tonawanda Service and Inspection Center has been closed in accordance with the NYSDEC approved *RRCP*, except as noted in this report. URS also concludes that the minor exceptions do not affect the analytical results that document the clean closure of the RCRA CSA. An engineering certification is attached to this *RCRA Closure Certification Report*.

URS also concludes that GE has cleaned the RCRA CSA adequately and that there has been no release from the storage area. The activities that GE performed during implementation of the NYSDEC approved *Revised RCRA Closure Plan*, dated January 4, 2002, included:

- Removing and properly disposing the waste previously stored in the RCRA CSA.
- Cleaning the RCRA CSA.
- Demonstrating through post-closure sampling that there has been no impact to the area.
- Demonstrating through soil sampling that there has been no release from the CSA.

After the closure derived waste has been disposed, documentation of waste disposal will be provided to NYSDEC and EPA.

TABLE 1
VOC RESULTS FOR RINSATE SAMPLES COLLECTED JUNE 19, 2002
RCRA CSA CLOSURE
GENERAL ELECTRIC INTERNATIONAL
TONAWANDA, NEW YORK

Parameter	NYSDEC Groundwater Standards	Sample ID/Date Sampled/Location					
		CSA-1 6/19/02 North	CSA-2 6/19/02 Middle	CSA-3 6/19/02 South	EB-061902 6/19/02 Equipment Blank	RB-061902 6/19/02 Distilled Water	TB-061902 Trip Blank
Acetone	[50]	5.2	8.8	8.8	1.7 J	<5	<5
Benzene	1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	[50]	<1	<1	<1	<1	<1	<1
Bromoform	[50]	<1	<1	<1	<1	<1	<1
Bromomethane	5*	<1	<1	<1	<1	<1	<1
2-Butanone	[50]	<5	<5	<5	<5	<5	<5
Carbon Disulfide	NS	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	5	<1	<1	<1	<1	<1	<1
Chlorobenzene	5*	<1	<1	<1	<1	<1	<1
Chloroethane	5*	<1	<1	<1	<1	<1	<1
Chloroform	7	<1	<1	<1	<1	<1	<1
Chloromethane	NS	<1	<1	<1	<1	<1	<1
Dibromochloromethane	[50]	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5*	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.6	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	5*	<1	<1	<1	<1	<1	<1
1,2-Dichloroethene (Total)	5*	<2	<2	<2	<2	<2	<2
1,2-Dichloropropane	1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	0.4**	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	0.4**	<1	<1	<1	<1	<1	<1
Ethylbenzene	5*	<1	<1	<1	<1	<1	<1
2-Hexanone	[50]	<5	<5	<5	<5	<5	<5
4-Methyl-2-pentanone	NS	<5	<5	<5	<5	<5	<5
Methylene chloride	5*	0.5 BJ	0.62 BJ	0.54 BJ	0.62 BJ	0.66 BJ	<1
Styrene	5*	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	5*	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5*	<1	<1	<1	<1	<1	<1
Toluene	5*	<1	0.3 J	0.28 J	<1	<1	<1
1,1,1-Trichloroethane	5*	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	1	<1	<1	<1	<1	<1	<1
Trichloroethene	5*	<1	<1	<1	<1	<1	<1
Vinyl acetate	NS	<5	<5	<5	<5	<5	<5
Vinyl chloride	2	<1	<1	<1	<1	<1	<1
Total Xylenes	5*	<3	<3	<3	<3	<3	<3

Units are ug/L
J: Indicates estimated value above method dectection limits and below quantitation limits.
B: Indicates parameter was detected in laboratory method blank.
New York State Groundwater Quality Standard from Division of Water Technical and Operational Guidance Series (NYSDEC, TOGS 1.1.1). Water Class: GA. Type: H(WS). Source of Drinking Water (groundwater).
NS: Standard not available.
[ ]: Indicates a guidance value.
*: The principal organic contaminant standard of 5 µg/L applies to this parameter.
**: Standard applies to the sum of these substances.

TABLE 2
METAL RESULTS FOR RINSATE SAMPLES COLLECTED JUNE 19, 2002
RCRA CSA CLOSURE
GENERAL ELECTRIC INTERNATIONAL
TONAWANDA, NEW YORK

Parameter	NYSDEC Groundwater Standards	Sample ID/Date Sampled/Location				
		CSA-1 6/19/02 North	CSA-2 6/19/02 Middle	CSA-3 6/19/02 South	EB-061902 6/19/02 Equipment Blank	RB-061902 6/19/02 Distilled Water
Arsenic-Total	0.025	<0.007	<0.007	<0.007	<0.007	<0.007
Barium-Total	1	0.034	0.0086	0.01	0.047	0.047
Cadmium-Total	0.005	0.0013	<0.001	<0.001	<0.001	<0.001
Chromium-Total	0.05	**0.35**	0.024	<0.002	<0.002	<0.002
Lead-Total	0.025	0.02	<0.01	<0.01	<0.01	<0.01
Mercury-Total	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Selenium-Total	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Silver-Total	0.05	<0.003	<0.003	<0.003	<0.003	<0.003

Units are mg/L
New York State Groundwater Quality Standard from Division of Water Technical and Operational Guidance Series (NYSDEC, TOGS 1.1.1). Water Class: GA. Type: H(WS). Source of Drinking Water (groundwater).

TABLE 3
VOC RESULTS FOR RINSATE SAMPLES COLLECTED JULY 11, 2002
RCRA CSA CLOSURE
GENERAL ELECTRIC INTERNATIONAL
TONAWANDA, NEW YORK

Parameter	NYSDEC Groundwater Standards	Sample ID/Date Sampled/Location			
		CSA-1 7/11/02 North	EB-0711 7/11/02 Equipment Blank	RB-071102 7/11/02 Distilled Water	TB-071102 7/11/02 Trip Blank
Acetone	[50]	<5	<5	<5	<5
Benzene	1	<1	<1	<1	<1
Bromodichloromethane	[50]	<1	<1	<1	<1
Bromoform	[50]	<1	<1	<1	<1
Bromomethane	5*	<1	<1	<1	<1
2-Butanone	[50]	<5	<5	<5	<5
Carbon Disulfide	NS	<1	<1	<1	<1
Carbon Tetrachloride	5	<1	<1	<1	<1
Chlorobenzene	5*	<1	<1	<1	<1
Chloroethane	5*	<1	<1	<1	<1
Chloroform	7	<1	<1	<1	<1
Chloromethane	NS	<1	<1	<1	<1
Dibromochloromethane	[50]	<1	<1	<1	<1
1,1-Dichloroethane	5*	<1	<1	<1	<1
1,2-Dichloroethane	0.6	<1	<1	<1	<1
1,1-Dichloroethene	5*	<1	<1	<1	<1
1,2-Dichloroethene (Total)	5*	<2	<2	<2	<2
1,2-Dichloropropane	1	<1	<1	<1	<1
cis-1,3-Dichloropropene	0.4**	<1	<1	<1	<1
trans-1,3-Dichloropropene	0.4**	<1	<1	<1	<1
Ethylbenzene	5*	<1	<1	<1	<1
2-Hexanone	[50]	<5	<5	<5	<5
4-Methyl-2-pentanone	NS	<5	<5	<5	<5
Methylene chloride	5*	0.57 J	<1	<1	<1
Styrene	5*	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	5*	<1	<1	<1	<1
Tetrachloroethene	5*	<1	<1	<1	<1
Toluene	5*	<1	<1	<1	<1
1,1,1-Trichloroethane	5*	<1	<1	<1	<1
1,1,2-Trichloroethane	1	<1	<1	<1	<1
Trichloroethene	5*	<1	<1	<1	<1
Vinyl acetate	NS	<5	<5	<5	<5
Vinyl chloride	2	<1	<1	<1	<1
Total Xylenes	5*	<3	<3	<3	<3

Units are ug/L
J: Indicates estimated value above method dectection limits and below quantitation limits.
New York State Groundwater Quality Standard from Division of Water Technical and Operational Guidance Series (NYSDEC, TOGS 1.1.1). Water Class: GA. Type: H(WS). Source of Drinking Water (groundwater).
NS: Standard not available.
[ ]: Indicates a guidance value.
*: The principal organic contaminant standard of 5 µg/L applies to this parameter.
**: Standard applies to the sum of these substances.

TABLE 4
METALS RESULTS FOR RINSATE SAMPLES COLLECTED JULY 11, 2002
RCRA CSA CLOSURE
GENERAL ELECTRIC INTERNATIONAL
TONAWANDA, NEW YORK

Parameter	NYSDEC Groundwater Standards	Sample ID/Date Sampled/Location		
		CSA-1 7/11/02 North	EB-0711 7/11/02 Equipment Blank	RB-071102 7/11/02 Distilled Water
Arsenic-Total	0.025	<0.0070	<0.0070	<0.0070
Barium-Total	1	0.032	<0.0010	<0.0010
Cadmium-Total	0.005	<0.0010	<0.0010	<0.0010
Chromium-Total	0.05	0.032	<0.0020	<0.0020
Lead-Total	0.025	<0.010	<0.010	<0.010
Mercury-Total	0.0007	<0.00020	<0.00020	<0.00020
Selenium-Total	0.01	<0.010	<0.010	<0.010
Silver-Total	0.05	<0.0030	<0.0030	<0.0030

Units are mg/L
New York State Groundwater Quality Standard from Division of Water Technical and Operational Guidance Series (NYSDEC, TOGS 1.1.1). Water Class: GA. Type: H(WS). Source of Drinking Water (groundwater).

TABLE 5
BACKGROUND CONCENTRATIONS OF METALS IN SOIL
RCRA CSA CLOSURE
GENERAL ELECTRIC INTERNATIONAL
TONAWANDA, NEW YORK

Parameter	BKG B-1 (0-1') 8/1/2002	BKG B-2 (0-1') 8/1/2002	BKG B-3 (0-1') 8/1/2002	BKG B-4 (0-1') 8/1/2002	Mean	Standard Deviation	Site Background (Mean + 3 Standard Deviations)
Arsenic	6.4	6.4	4.6	9.5	6.73	2.0	13
Barium	97.3	118	127	93.5	108.95	16.1	160
Cadmium	<0.64	<0.59	<0.65	<0.65	0.63	0.0	0.7
Chromium	23.4	22.2	24.1	22.1	22.95	1.0	26
Lead	50.9	22	36.4	53.7	40.75	14.6	85
Mercury	0.089	0.067	0.091	0.11	0.09	0.0	0.1
Selenium	<3.8	<3.6	<3.9	<3.9	3.80	0.1	4.2
Silver	<1.3	<1.2	<1.3	<1.3	1.28	0.1	1.4

Note: All units are mg/Kg

TABLE 6
VOC RESULTS FOR SOIL SAMPLES COLLECTED AUGUST 1, 2002
RCRA CSA CLOSURE
GENERAL ELECTRIC INTERNATIONAL
TONAWANDA, NEW YORK

Parameter	NYSDEC Recommended Soil Cleanup Objective	CORE B-1 (8"-12") 8/1/02 North	CORE B-2 (5"-10") 8/1/02 South
Acetone	200	24 J	45
Benzene	60	<6.1	1.3 J
Bromodichloromethane	NS	<6.1	<6.1
Bromoform	NS	<6.1	<6.1
Bromomethane	NS	<12.0	<12.0
2-Butanone	300	<30.0	<30.0
Carbon Disulfide	2700	<6.1	<6.1
Carbon Tetrachloride	600	<6.1	<6.1
Chlorobenzene	1700	<6.1	<6.1
Chloroethane	1900	<12.0	16
Chloroform	300	<6.1	<6.1
Chloromethane	NS	<12.0	<12.0
Dibromochloromethane	NS	<6.1	<6.1
1,1-Dichloroethane	200	<6.1	<6.1
1,2-Dichloroethane	100	<6.1	<6.1
1,1-Dichloroethene	400	<6.1	12
1,2-Dichloroethene (Total)	NS	<12.0	<12.0
1,2-Dichloropropane	NS	<6.1	<6.1
cis-1,3-Dichloropropene	NS	<6.1	<6.1
trans-1,3-Dichloropropene	NS	<6.1	<6.1
Ethylbenzene	5500	<6.1	<6.1
2-Hexanone	NS	<12.0	<12.0
4-Methyl-2-pentanone	1000	<30.0	<30.0
Methylene Chloride	100	6.8 B	8.5 B
Styrene	NS	<6.1	<6.1
1,1,2,2-Tetrachloroethane	600	<6.1	<6.1
Tetrachloroethene	1400	<6.1	<6.1
Toluene	1500	<6.1	<6.1
1,1,1-Trichloroethane	800	<6.1	<6.1
1,1,2-Trichloroethane	NS	<6.1	<6.1
Trichloroethene	700	<6.1	<6.1
Vinyl Acetate	NS	<12.0	<12.0
Vinyl Chloride	200	<12.0	<12.0
Xylenes (Total)	1200	<18.0	<18.0

Notes:

All units are ug/Kg.

1- Recommended Soil Cleanup Objective (NYSDEC, TAGM 4046, April 1995)

2- NS indicates no standard

3 - B indicates parameter was detected in laboratory blank.

4 - J indicates estimated value above method detection limits and below quantitation limits.

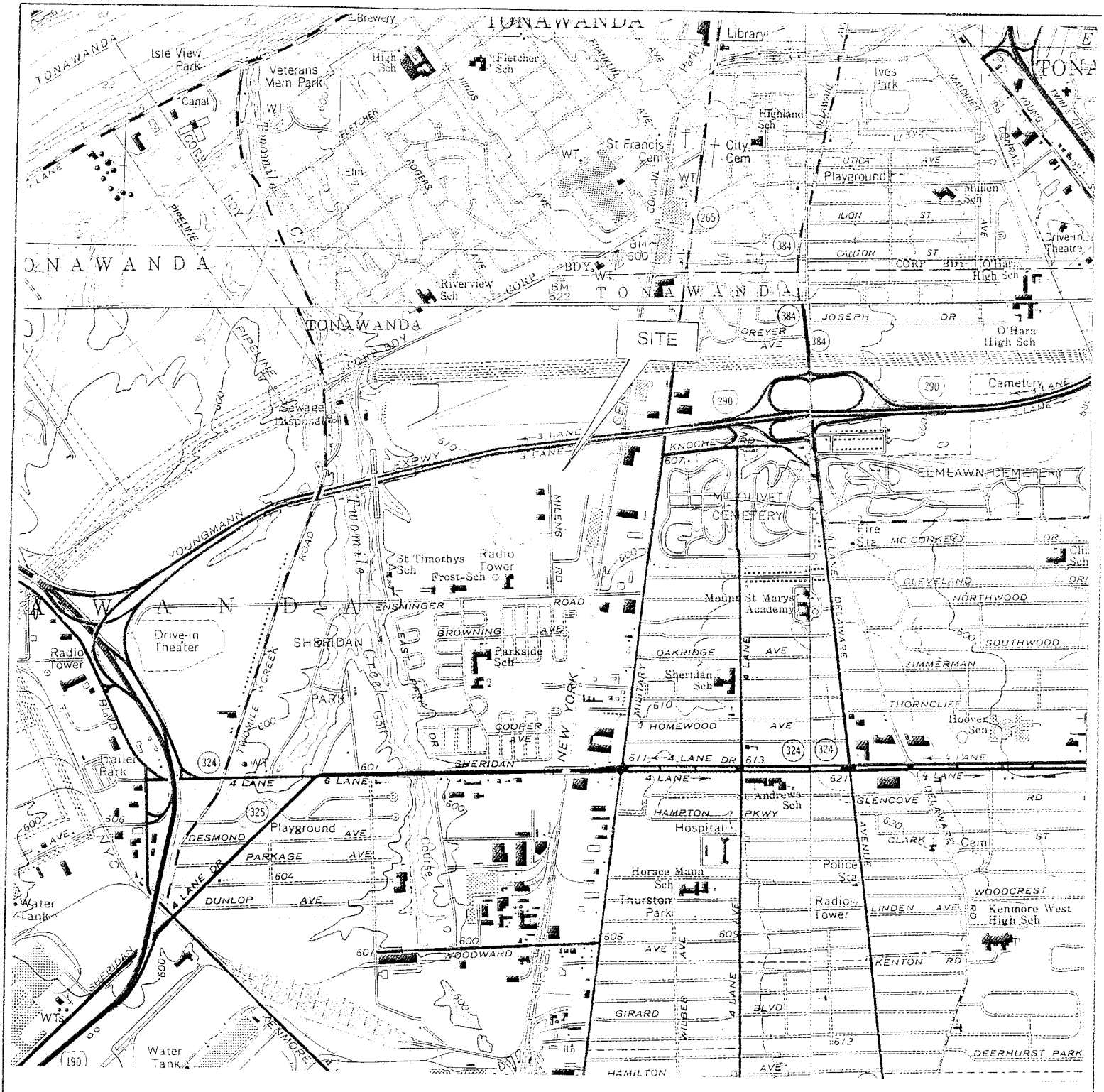
TABLE 7
METAL RESULTS FOR SOIL SAMPLES COLLECTED AUGUST 1, 2002
RCRA CSA CLOSURE
GENERAL ELECTRIC INTERNATIONAL
TONAWANDA, NEW YORK

Parameter	NYSDEC Recommended Soil Cleanup Objective	Site Specific Background (see Table 5)	CORE B-1 (8"-12") 8/1/02 North	CORE B-2 (5"-10") 8/1/02 South
Metals (mg/kg)				
Arsenic	7.5 or SB	13	3.9	4
Barium	300 or SB	160	124	117
Cadmium	1	0.7	<0.6	<0.63
Chromium	10	26	24.8	19.8
Lead	SB	85	23.8	13.3
Mercury	0.1	0.1	0.031	<0.025
Selenium	2 or SB	4.2	<3.6	<3.8
Silver	SB	1.4	<1.2	<1.3

Notes: 1- Recommended Soil Cleanup Objective (NYSDEC, TAGM 4046, April 1995)

2- SB indicates site background.

3- Calculation of site specific metal background concentrations is provided in Table 5.



CONTOUR INTERVAL = 10 FEET

REFERENCE
USGS 7.5 MINUTE TOPOGRAPHIC MAPS:
BUFFALO NORTHWEST QUADRANGLE 1965
BUFFALO NORTHEAST QUADRANGLE 1965
TONAWANDA WEST QUADRANGLE 1980
TONAWANDA EAST QUADRANGLE 1980

QUADRANGLE LOCATION

SCALE: 1" = 2000'

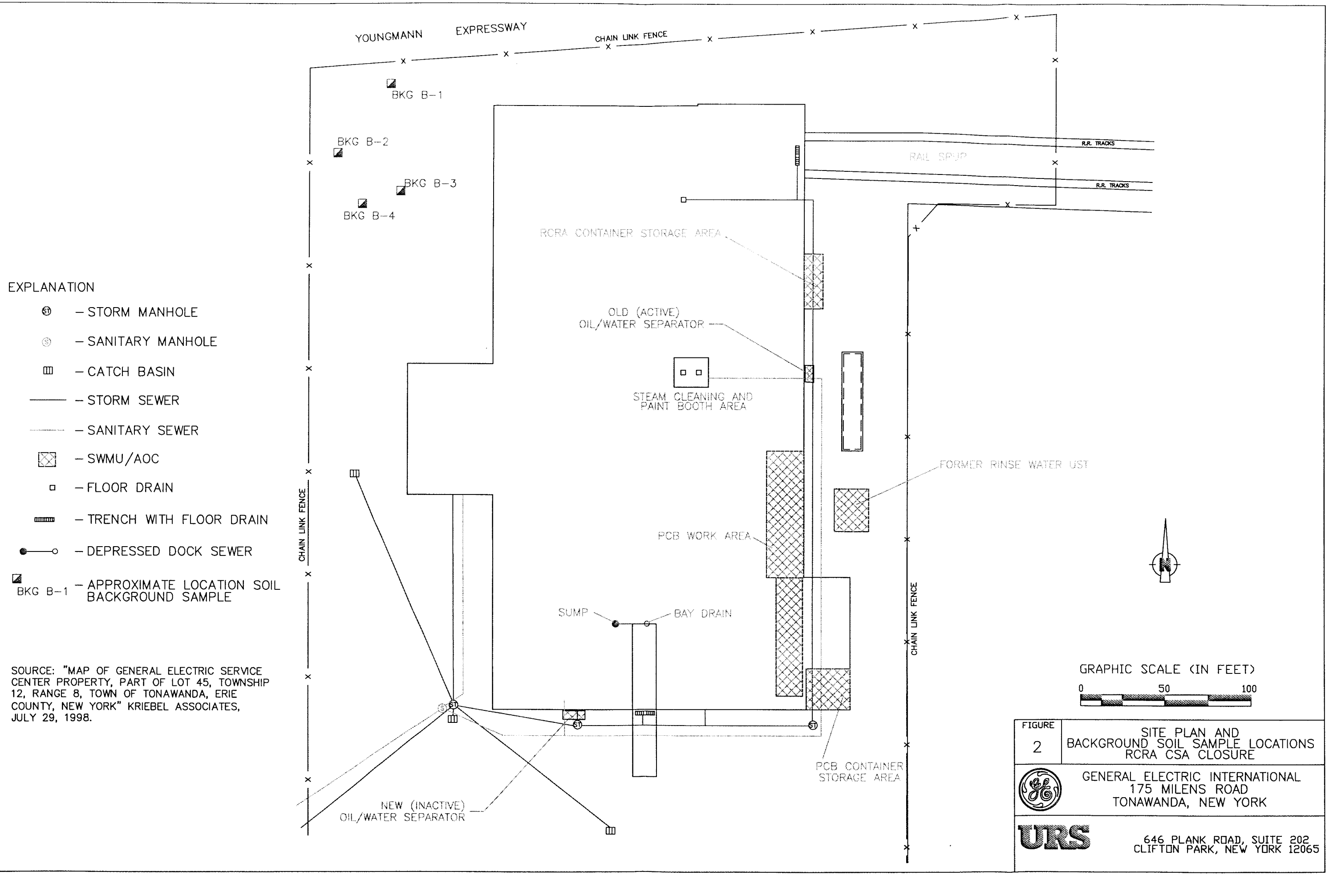
FIGURE 1	SITE LOCATION

175 MILENS ROAD
TONAWANDA, NEW YORK

URS
Dames & Moore

646 PLANK ROAD, SUITE 202
CLIFTON PARK, NEW YORK 12065

85030-44 03/29/00



SOURCE: "MAP OF GENERAL ELECTRIC SERVICE CENTER PROPERTY, PART OF LOT 45, TOWNSHIP 12, RANGE 8, TOWN OF TONAWANDA, ERIE COUNTY, NEW YORK" KRIEBEL ASSOCIATES, JULY 29, 1998.

BACKGROUND SAMPLE LOCATIONS 8/20/02

FIGURE 2	SITE PLAN AND BACKGROUND SOIL SAMPLE LOCATIONS RCRA CSA CLOSURE
	GENERAL ELECTRIC INTERNATIONAL 175 MILENS ROAD TONAWANDA, NEW YORK
URS	646 PLANK ROAD, SUITE 202 CLIFTON PARK, NEW YORK 12065

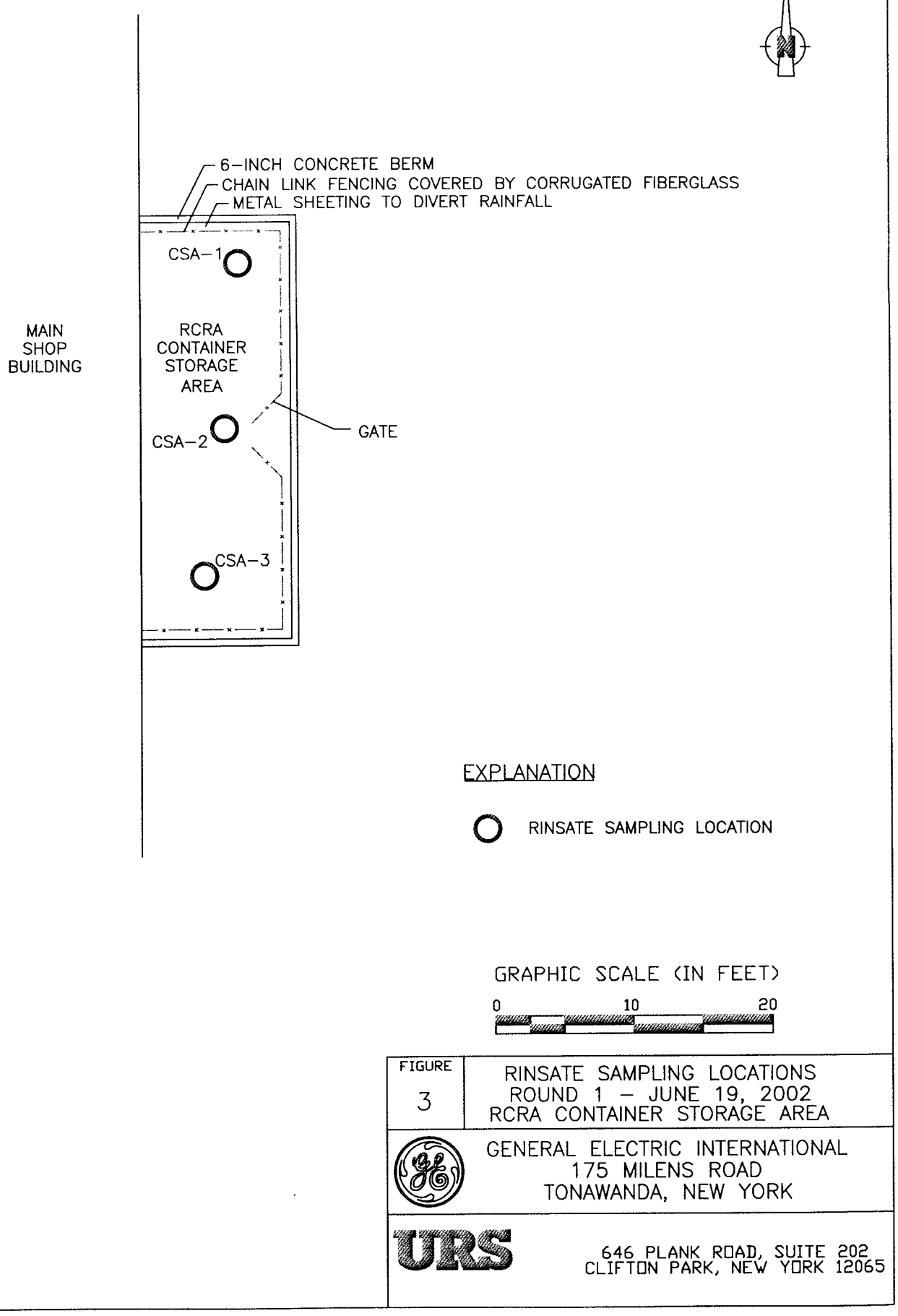


FIGURE 3

RINSATE SAMPLING LOCATIONS
ROUND 1 – JUNE 19, 2002
RCRA CONTAINER STORAGE AREA

GENERAL ELECTRIC INTERNATIONAL
175 MILENS ROAD
TONAWANDA, NEW YORK

URS
646 PLANK ROAD, SUITE 202
CLIFTON PARK, NEW YORK 12065

RCRA WASH 1.DWG 8/22/02

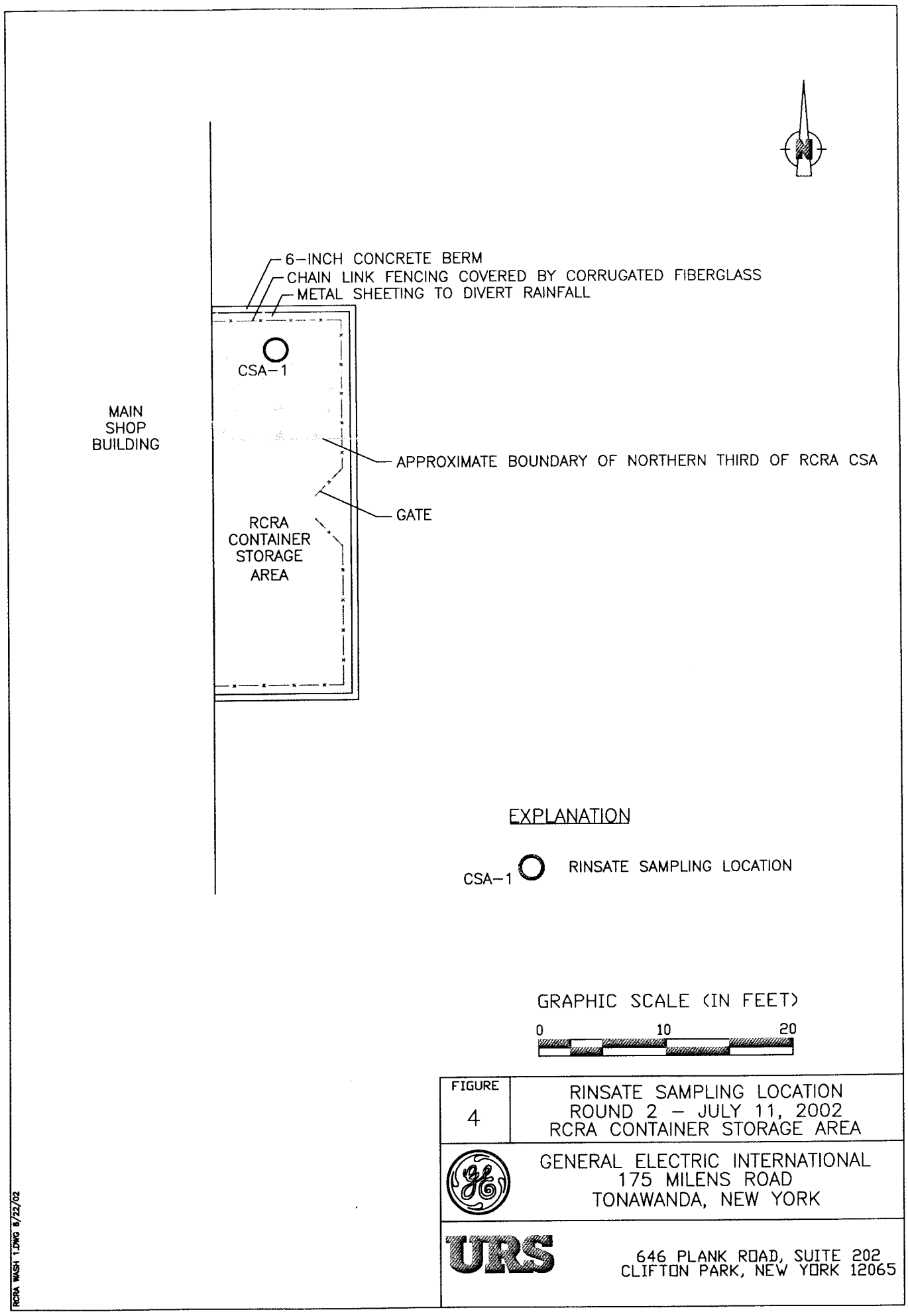


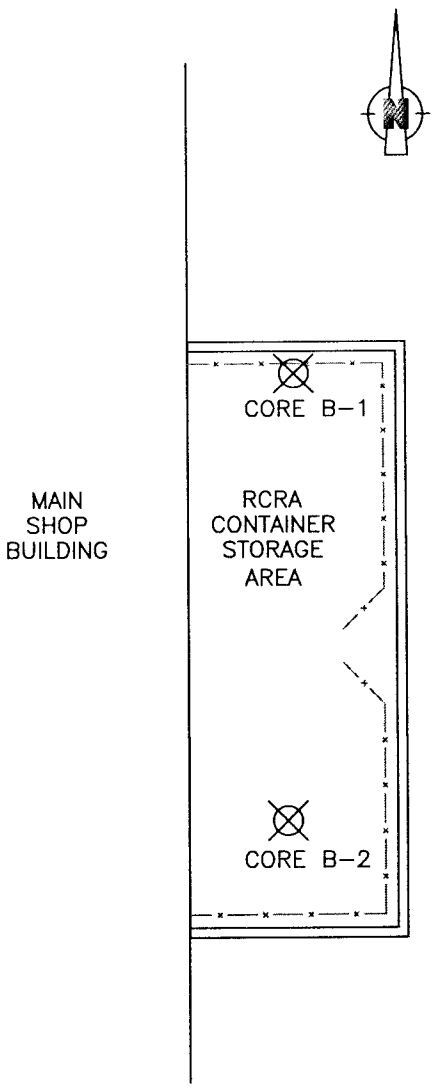
FIGURE 4

RINSATE SAMPLING LOCATION
ROUND 2 - JULY 11, 2002
RCRA CONTAINER STORAGE AREA

GENERAL ELECTRIC INTERNATIONAL
175 MILENS ROAD
TONAWANDA, NEW YORK

URS
646 PLANK ROAD, SUITE 202
CLIFTON PARK, NEW YORK 12065

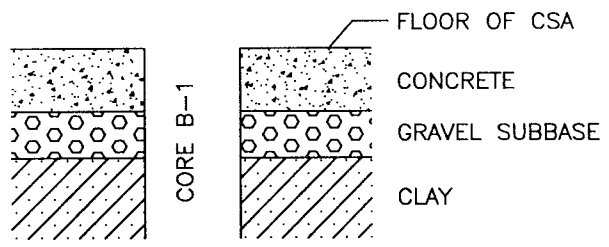
RCRA WASH 1.DWG 8/22/02



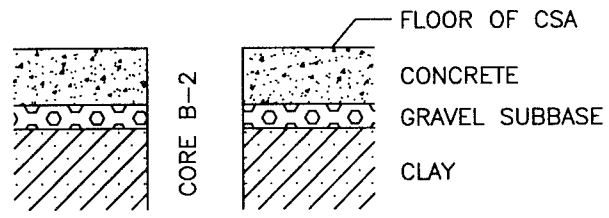
PLAN VIEW

GRAPHIC SCALE (IN FEET)

0 10 20



CROSS SECTION – CORE B-1
1 INCH = 2 FEET



CROSS SECTION – CORE B-2
1 INCH = 2 FEET

EXPLANATION

⊗ CORE LOCATION

CORE B-1

FIGURE	RCRA CSA SOIL SAMPLE LOCATIONS AUGUST 1, 2002 RCRA CONTAINER STORAGE AREA
5	GENERAL ELECTRIC INTERNATIONAL 175 MILENS ROAD TONAWANDA, NEW YORK
URS	646 PLANK ROAD, SUITE 202 CLIFTON PARK, NEW YORK 12065

RCRA CORES.DWG 9/9/02

APPENDIX A

NYSDEC Approved Revised RCRA Closure Plan

URS

REVISED
RCRA CLOSURE PLAN

Prepared For:

GE APPARATUS SERVICE SHOP
TONAWANDA, NEW YORK

January 4, 2002

Prepared by:

URS CORPORATION
646 PLANK ROAD, SUITE 202
CLIFTON PARK, NY 12065

URS

January 4, 2002

Ms. Kathleen Emery
New York State Department of
Environmental Conservation, Region 9
Division of Solid and Hazardous Materials
270 Michigan Avenue
Buffalo, New York 14203-2999

Re: *Revised RCRA Closure Plan*
RCRA Container Storage Area
Tonawanda, New York

Dear Ms. Emery:

On behalf of General Electric Company (GE), URS is submitting the attached *Revised RCRA Closure Plan* for the RCRA container storage area at GE's service shop in Tonawanda, New York. GE will be closing their RCRA container storage area and wishes to conduct the closure in accordance with this *Revised RCRA Closure Plan*.

GE's *HSWA of 1984 Permit*, issued by EPA, expired in November 2001. Rather than renewing the *HSWA of 1984 Permit* and modifying the 6 NYCRR 373 Permit, which was issued by NYSDEC, GE has elected to close their RCRA container storage area. Once the area is closed, GE intends to use the area as a less than 90 day storage area. GE has already begun closure.

URS has modified the *Revised RCRA Closure Plan*, which was submitted September 27, 2001, to reflect the comments you provided in our phone conversation on November 29, 2001.

If you have any questions regarding this material, please contact Dawn Varacchi of GE at (508) 486-0503 or Don Porterfield of URS at (518) 688-0015.

Very truly yours,
URS CORPORATION

Karen Peppin
Staff Engineer

Don Porterfield, P.E.
Senior Engineer

Attachment
cc: Mr. Stephen Malsan – NYSDEC
USEPA – RCRA Programs
USEPA – RCRA Records
Ms. Dawn Varacchi – GE
Mr. Tony Hejmanowski – GE
Ms. Keena Smith - Marcor

URS Corporation
646 Plank Road, Suite 202
Clifton Park, NY 12065
Tel: 518.688.0015
Fax: 518.688.0022

TABLE OF CONTENTS

FIGURES

1.0 INTRODUCTION

On behalf of General Electric Company (GE), URS Corporation (URS) has prepared this *Revised RCRA Closure Plan (RRCP)* for the hazardous waste storage area at GE's Tonawanda Apparatus Service Division service shop. This *RRCP* supercedes the approved *Closure Plan*, which is presumed to be dated 1994, that is incorporated into the May 1996 *6 NYCRR Part 373 Hazardous Waste Management Permit*.

In New York State, the Resource Conservation and Recovery Act (RCRA) program, which regulates hazardous wastes, is administered by the New York State Department of Environmental Conservation (NYSDEC). GE maintains a *6 NYCRR Part 373 Hazardous Waste Management Permit* (*373 Permit*), which was issued by the DEC in May 1996, for the Tonawanda service shop. The *373 Permit* covers both the PCB Storage Area, which is currently being closed in accordance with the approved *Revised Closure Plan*, dated June 28, 2000, and the RCRA Container Storage Area.

In 1996, the United States Environmental Protection Agency (EPA) issued a permit for GE to operate a hazardous waste storage facility at their Tonawanda service shop. The approval, which was issued by the EPA under the Hazardous and Solid Waste Amendments (HSWA) of 1984, is set to expire on November 14, 2001.

The *HSWA of 1984 Permit*, issued by EPA, in conjunction with the *373 Permit*, issued by NYSDEC, comprise the RCRA permit for the Tonawanda facility. GE's operations at their Tonawanda shop have changed since the 1994 *Closure Plan* was prepared. This *RRCP* has been prepared to reflect those changes.

Section 2.0 describes the site and the changes in site conditions since 1994. The remainder of this report describes closure actions. Section 3.0 describes the objective of this *RRCP*. Section 4.0 provides an overview of the closure process and Section 5.0 provides the detailed description of closure procedures. Section 6.0 describes the schedule for closure.

2.0 BACKGROUND

GE's Tonawanda Service Shop is located at 175 Milens Road, Tonawanda, New York. As shown in Figure 1, the shop is in an urban area that includes some commercial businesses and other industries. GE built the slab-on-grade building in 1968 and 1969 and expanded the building in 1978. GE uses the service shop, which is also known as the Buffalo Service Shop, to repair industrial equipment, such as electric motors, transformers, turbines, pumps, and compressors. During operations at the shop, GE generates hazardous wastes.

GE currently operates a RCRA Container Storage Area (RCRA CSA) in a covered area outside of their Tonawanda service shop. GE has used the RCRA CSA to store 55-gallon steel drums since 1980. The maximum capacity of the storage area is 36 drums. As shown in Figure 2, the RCRA CSA is on the northeast side of the service shop.

Prior to August 2000, GE operated an approved commercial PCB storage area inside their Tonawanda service shop. GE had used the PCB storage area to service PCB-containing equipment and to store PCB wastes generated from their activities at the shop prior to shipping the PCB wastes to appropriately licensed disposal facilities. As shown in Figure 2, the PCB storage area is in the southeast corner of the shop. The PCB storage area is currently being closed in accordance with the *Revised Closure Plan*, dated June 28, 2000.

The operations at the site and the regulatory status of the site have changed since the existing *Closure Plan* was prepared. As a condition of their *373 Permit*, GE has conducted a RCRA Facility Investigation (RFI) and completed a Corrective Measure Study at their Tonawanda service shop.

2.1 PERMITS

The *373 Permit* allows GE to store hazardous wastes that contain volatile organic compounds (VOCs) and metals at a storage area on the northeast side of the building (Figure 2). GE does not treat or dispose hazardous or solid wastes at the site.

Because PCBs are regulated as a hazardous waste in the state of New York, GE's *373 Permit* covers the interior PCB storage area as well as the RCRA container storage area. The terms of GE's 373 Permit state that the *Closure Plan* for the PCB storage area is incorporated, by reference, into the *Closure Plan* for GE's 373 Permit.

The *HSWA of 1984 Permit* allows GE to store hazardous wastes that contain metals. This permit was originally obtained because the NYSDEC did not have jurisdiction over all types of hazardous wastes.

2.2 RCRA CORRECTIVE ACTION

In accordance with the terms of the 373 Permit, GE has begun Corrective Action at the site. Module III of GE's *373 Permit* requires Corrective Actions for all releases of hazardous wastes or constituents from any Solid Waste Management Units (SWMUs) or Areas of Concern (AOCs). Module III of the *373 Permit* lists eight SWMUs and AOCs at the Tonawanda shop. These eight units, which are shown in Figure 2, are:

- RCRA Container Storage Area
- PCB Container Storage Area
- PCB Work Area
- Former Rinse Water Underground Storage Tank
- Old Oil/Water Separator
- New Oil/Water Separator
- Floor Drains and Sewers
- Rail Spur

Under RCRA, Corrective Actions are to be implemented wherever they are necessary, including areas beyond the boundaries of the facility. Corrective Actions include a RCRA Facility Assessment (RFA), an RFI and, if needed, Corrective Measures. GE completed the RFA in 1988 and the RFI in 1998. A Corrective Measure Study (CMS) was completed in 2000 and a *Revised Corrective Measure Study Final Report (Revised CMS)* was submitted to NYSDEC July 31, 2001.

The RFI was submitted to the NYSDEC April 2, 1999 and a copy was sent to Mr. James Reidy of the EPA. The results of the RFI indicate that the concentrations of selected constituents (primarily PCBs) at the Tonawanda shop exceed the recommended soil cleanup objectives (RSCOs) published by the NYSDEC in TAGM HWR-94-4046. The RFI included placement of four soil borings around the perimeter of the RCRA CSA. Only one VOC was detected and at a concentration less than its RSCO. The RFI concluded that no further investigation was warranted for the RCRA CSA.

2.3 DESCRIPTION OF RCRA CONTAINER STORAGE AREA

As shown in Figure 2, GE's RCRA CSA is along the northeast side of the Tonawanda service shop. The area is 32 feet long and 11 feet wide. The unit consists of a six-inch thick concrete pad with a concrete curb that provides secondary containment. The floor and curbs of the storage area are sealed with epoxy. A galvanized metal roof and fiberglass walls protect the storage area from rain. The roof and siding were installed in 1986. Security is provided by a locking fence surrounding three sides of the area. On the west side of the storage area, the wall of the shop building forms the fourth side of the RCRA CSA. The storage area is inspected weekly for signs of leaks or deterioration.

GE has used the RCRA CSA to store 55-gallon steel drums since 1980. GE has used this area to store wastes with EPA Hazardous Waste Numbers D001, D002, D004, D005, D006, D007, D008, D009, D010, D011, F001, F003, and F005. The maximum capacity of the storage area is 36 drums.

3.0 OBJECTIVE

The objective of this *RRCP* is to verify that the hazardous wastes stored in the RCRA CSA have not been released to the environment. Because soils surrounding the area were investigated during the RCRA Corrective Action, the sampling in this *RRCP* focuses on the soil beneath the RCRA CSA and verifying that surface of the area is cleaned.

Analytical results will be compared to values outlined in the following guidance documents.

Media - Compound	Location	Comparison Value
Soil - VOCs	Beneath RCRA CSA	NYSDEC's Recommended Soil Cleanup Objectives (RSCOs)*
Soil - Metals	Beneath RCRA CSA	Greater of NYSDEC's RSCOs or Site Background
Rinsate - VOCs	Within RCRA CSA	NYSDEC's Groundwater Standards**
Rinsate – Metals	Within RCRA CSA	NYSDEC's Groundwater Standards**

*NYSDEC's RSCOs as provided in Technical and Administrative Guidance Memorandum (TAGM) HWR-94-4046.

**NYSDEC's groundwater standards as provided in 6 NYCRR Part 703.

4.0 TECHNICAL APPROACH

This *RRCP* describes the steps that GE will take to close their RCRA CSA. This section of this *RRCP* provides an overview of GE's technical approach.

As described earlier, soil near the RCRA CSA was sampled during the RFI and there were no indications soil quality has been significantly impacted by the storage area. Therefore, this *RRCP* will focus on the storage area itself.

In general, the closure will occur in this sequence:

- Step 1 – Remove hazardous waste inventory for off-site disposal;
- Step 2 – Remove debris and vacuum the RCRA CSA;
- Step 3 – Inspect the area and note possible locations for judgmental sampling;
- Step 4 – Pressure wash the RCRA CSA;
- Step 5 – Collect rinsate samples to evaluate CSA decontamination;
- Step 6 – Conduct further cleaning if the analytical results from the rinsate samples indicate further action is warranted.
- Step 7 – Core through the RCRA CSA and collect soil samples;
- Step 8 - Conduct further sampling or removal if the soil sample analytical results warrant further action;
- Step 9 - Collect confirmatory sampling, if necessary;
- Step 10 - Dispose remediation waste; and
- Step 11 - Submit *Closure Certification Report*.

5.0 CLOSURE

This section provides a detailed description of the closure process. All work performed will be conducted in accordance with applicable OSHA regulations and a site-specific health and safety plan. Section 5.1 describes specific procedures that will be followed during closure. Section 5.2 describes sampling protocol and quality assurance and quality control measures. Section 5.3 describes waste handling and disposal.

5.1 CLOSURE PROCEDURES

The first step in the closure process will be to remove the existing hazardous waste inventory and transport the materials to a properly licensed off-site facility for disposal. Upon completion of inventory removal, a walkthrough will be conducted to assess the condition of the storage area. The purpose of the walkthrough will be to determine whether supplementary, judgmental samples should be included in the sampling plan. Areas with an oily stain, buildup of grime, or cracks or seams in the surface will be noted during the walkthrough. The observations collected in this step will be used to determine the number and locations of judgmental samples that will be collected during implementation of the sampling plan.

Bulk debris will be removed from the storage area and the area will be vacuumed. The floor and curbs of the RCRA CSA will be pressure washed or steam cleaned. The adjacent building wall will also be washed to a height of eight feet. We anticipate that a steam pressure washing unit with a rated nozzle pressure not less than 3000 pounds per square inch will be used. The washing will be conducted such that the nozzle will be between 18 and 24 inches from the surface being washed. All waste generated, including wash and rinse water, will be containerized for disposal at a properly licensed facility.

After the storage area has been cleaned, the surface of the RCRA storage area will be sampled to verify that it has been adequately cleaned. Rinsate samples will be collected from the surface of the storage area for VOC and metals analyses. An eleven-foot by eleven-foot grid will be established on the floor of the RCRA CSA. Each square of the grid will be assigned a unique identification, such as "CSA-1." A temporary berm will be set up on the floor of the RCRA CSA for each grid square, and de-ionized water will be pooled within the berms. A sample of the water will be collected from each area for VOC and metals analyses. This sampling protocol is discussed in more detail in Section 5.2.

The results of the rinsate sampling will determine what further actions, if any, are warranted. If the analytical results indicate the rinsate water meets the cleanup objectives listed in Section 3.0, then GE will proceed to sample soil from beneath the RCRA CSA. However, if the analytical results from the rinsate sampling are greater than the cleanup objectives, the area will be recleaned, and resampled.

After the confirmatory samples from the floor of the storage area verify that the floor is clean, soil samples will be collected from beneath the storage area for VOC and metals analyses. Because the four soil borings that were placed around the perimeter of the RCRA CSA during

the RFI indicate there has been no release from the storage area, and because the storage area is small, one boring will be placed through the floor of RCRA CSA. The floor of the RCRA CSA will be cored at either the center of the storage area, or near the largest crack or seam, and a soil sample will be collected from below the floor. The location of the boring will be decided in the field, based on observations and a conference with a NYSDEC representative. Based on field observations, up to two additional locations may be cored for collection of judgmental samples. Thus, a total of up to three samples will be collected from the soils beneath the CSA. Sampling protocol is discussed in more detail in Section 5.2.

The results of the soil sampling will determine what further actions, if any, are warranted. If the analytical results indicate the soil meets the cleanup objectives listed in Section 3.0, then no further actions will be taken. However, if the analytical results from the soil sampling are greater than the cleanup objectives, GE may elect to collect additional samples before implementing a remedial effort.

If a remedial effort is warranted, the cleanup activities would likely involve removal and proper off-site disposal of the concrete slab and underlying impacted soil. If further action is undertaken, confirmatory samples will be collected from areas where additional cleanup activities are conducted to verify that cleanup is complete.

5.2 SAMPLING PROTOCOL AND QA/QC

This section provides a summary of the sampling protocol and quality control measures that will be employed during closure.

5.2.1 Sampling Protocol

This section describes the protocol to be followed for each of the sample types that may be collected during closure. Each sample that is collected will be assigned a unique sample identification related to the location from which it was collected and sample type. If an obstruction prevents the collection of any sample from a designated location, the location shall be adjusted in the field, and the sample will be collected as close as practical to the designated location.

The samples will be transferred to containers provided by the analytical laboratory, and submitted under proper chain of custody for analyses. The samples will be kept chilled to a temperature of 4° centigrade. Samples collected during the closure will be analyzed for VOCs using EPA Method 8260 and RCRA metals using EPA Method 6010. If additional sampling is necessary, GE may elect to analyze for select compounds.

All sampling equipment will be decontaminated between sampling locations. The core barrel, hand auger, and any other nondisposable sampling equipment will be washed with liquinox, rinsed with distilled water, then washed with hexane, and rinsed with distilled water.

Rinsate Samples

Temporary berms will be set up on the floor of the storage area. The temperature of the area and the de-ionized water will be recorded. A minimum quantity of de-ionized water will be placed within the berm and allowed to sit for 10 minutes. The amount of water will be determined in the field based on the quantity of water needed for the samples and the sample area. The amount of water used will be documented.

Samples of the water (rinsate) will be collected using a sterile pipette supplied by the laboratory and transferred to laboratory supplied bottles. The sample to be analyzed for VOCs will be collected before the sample to be analyzed for metals. The wetted area for each sample location will be measured and recorded. A duplicate sample will not be collected.

Soil Samples

Soil samples will be collected from borings installed using a hand auger. The borings will be advanced to a maximum of four feet below the base of the slab. Soil samples will be collected from as close as practical below the base of the slab. The depth of the samples will depend on how far below the slab the gravel subase extends. Residual soil will be used to backfill the soil boring. The concrete surface will be patched.

Determining Metal Background Levels

Soil samples will be collected from four locations west of the building to establish the site-specific background levels for metals. The location of the background samples will be chosen in the field. The sample locations will be selected to avoid obstacles such as utilities and sidewalks. The samples will be collected from areas least likely to have been impacted by recent or historic site activities. The soil samples will be collected from approximately one-foot below ground surface and from a similar material as the soils beneath the CSA.

The background soil samples will be collected using either a hand auger or small spade. No duplicate samples will be collected. The samples will be analyzed for RCRA metals by EPA Method 6010. Site-specific maximum background concentrations will be calculated for each metal as the mean plus three standard deviations. This approach for establishing background concentrations is based on the EPA's *Determination of Background Concentration of Inorganics in Soils and Sediments at Hazardous Waste Sites*, published in December 1995. The analytical results for each metal will be compared to the greater of the site-specific maximum background concentrations or the NYSDEC RSCO.

5.2.2 Quality Control and Quality Assurance

Field blanks and duplicate samples will be collected and analyzed for QA/QC purposes. Field blanks will be collected for each day of sampling. Duplicate samples will be collected at a rate of one duplicate sample per 20 samples for each type of sample collected. In addition, a sample of the de-ionized water will also be analyzed for metals and VOCs.

5.3 WASTE HANDLING & DISPOSAL

Handling, storage, transportation, and disposal of the existing inventory of hazardous waste and all wastes generated during implementation of this *RRCP* will be in accordance with applicable regulations.

5.3.1 Disposal of Inventory

Existing inventory will be removed from the site for disposal within 60 days of beginning closure. Inventory will handled and disposed based upon the type of waste.

5.3.2 Closure Derived Waste

Wastes generated during decontamination of the facility will be stored on-site until final disposal. Wastes will be handled in accordance with applicable storage requirements.

6.0 SCHEDULE

Figure 3 presents a schedule for the final closure. GE anticipates that the RCRA CSA will receive wastes until November 14, 2001. As shown in Figure 3, GE will:

- Notify the EPA and DEC of their intention to close the RCRA CSA at least 45 days before the anticipated date that the final closure will begin;
- Begin closure no more than 30 days after receiving the final waste;
- Remove all existing inventory within 90 days of receiving the final waste;
- Complete closure within 180 days of receiving the final waste; and
- Submit to the EPA and to the DEC, within 60 days of completing the closure, a certification that the RCRA CSA was closed in accordance with the approved closure plan (this document). An independent registered professional engineer will sign the certification.

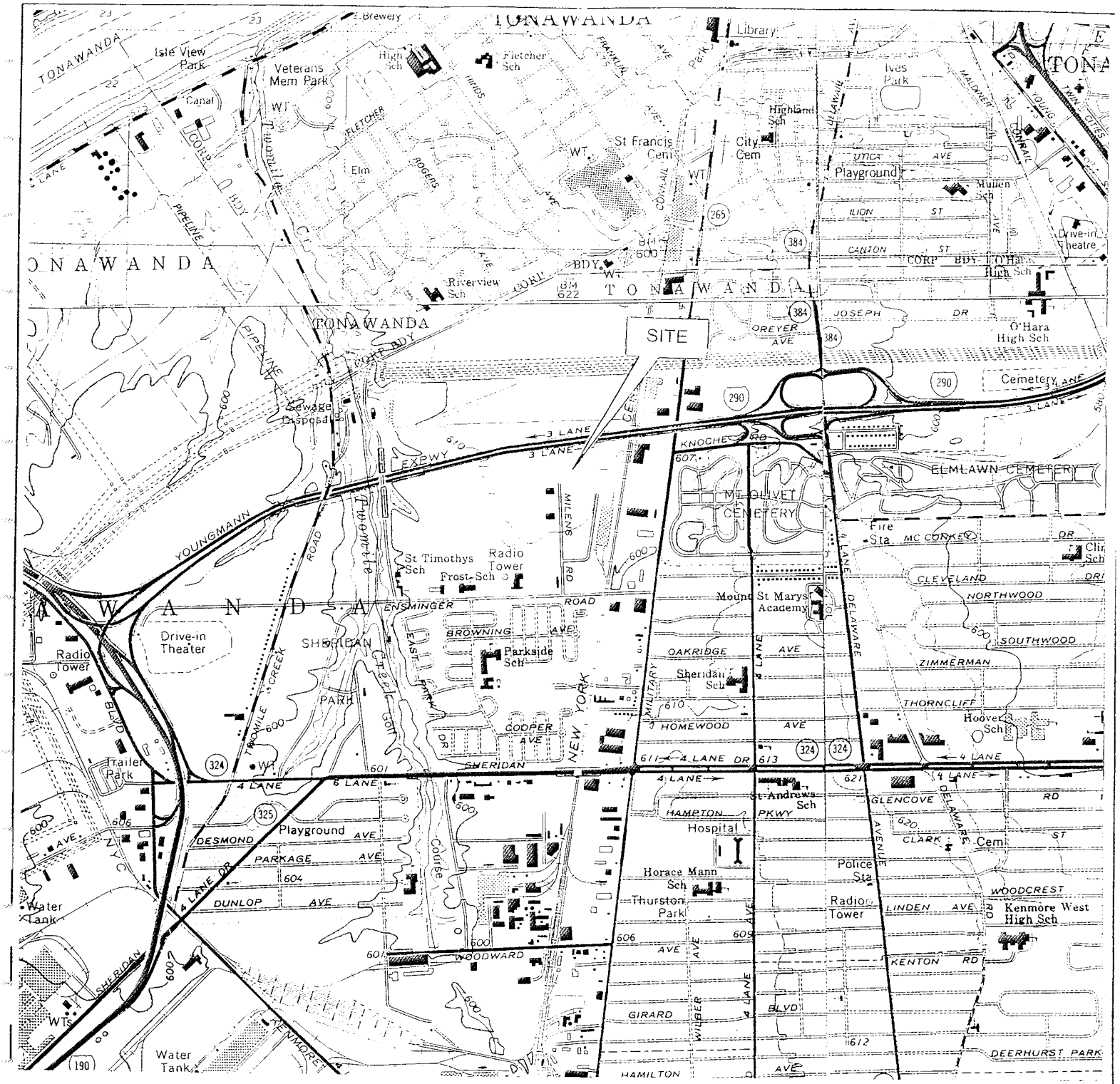


FIGURE 1	SITE LOCATION

175 MILENS ROAD
TONAWANDA, NEW YORK

CONTOUR INTERVAL = 10 FEET

REFERENCE
USGS 7.5 MINUTE TOPOGRAPHIC MAPS:
BUFFALO NORTHWEST QUADRANGLE 1965
BUFFALO NORTHEAST QUADRANGLE 1965
TONAWANDA WEST QUADRANGLE 1980
TONAWANDA EAST QUADRANGLE 1980

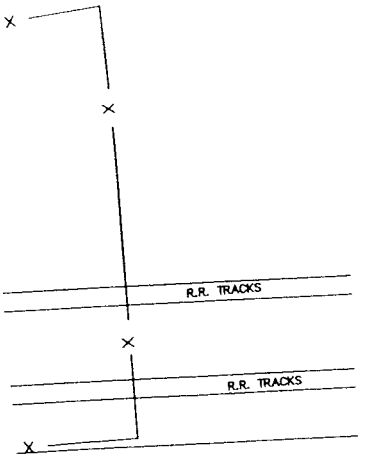
QUADRANGLE LOCATION

SCALE: 1" = 2000'

URS
Dames & Moore

646 PLANK ROAD, SUITE 202
CLIFTON PARK, NEW YORK 12065

85030-44 03/29/00



EXPLANATION

- ST – STORM MANHOLE
- S – SANITARY MANHOLE
- – CATCH BASIN
- ——— – STORM SEWER
- ——— – SANITARY SEWER
- – SWMU/AOC
- – FLOOR DRAIN
- – TRENCH WITH FLOOR DRAIN
- – DEPRESSED DOCK SEWER

NSE WATER UST

SOURCE: "MAP OF GENERAL ELECTRIC SERVICE CENTER PROPERTY, PART OF LOT 45, TOWNSHIP 12, RANGE 8, TOWN OF TONAWANDA, ERIE COUNTY, NEW YORK" KRIEBEL ASSOCIATES, JULY 29, 1998.

GRAPHIC SCALE (IN FEET)

0 50 100

FIGURE 2	SITE PLAN
	175 MILENS ROAD TONAWANDA, NEW YORK
URS	646 PLANK ROAD, SUITE 202 CLIFTON PARK, NEW YORK 12065

85030-42_RCRA 09/25/01

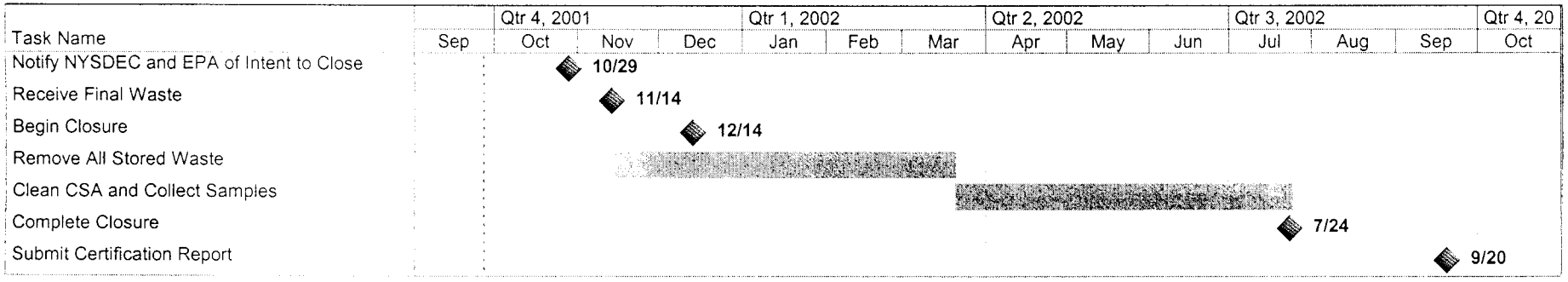
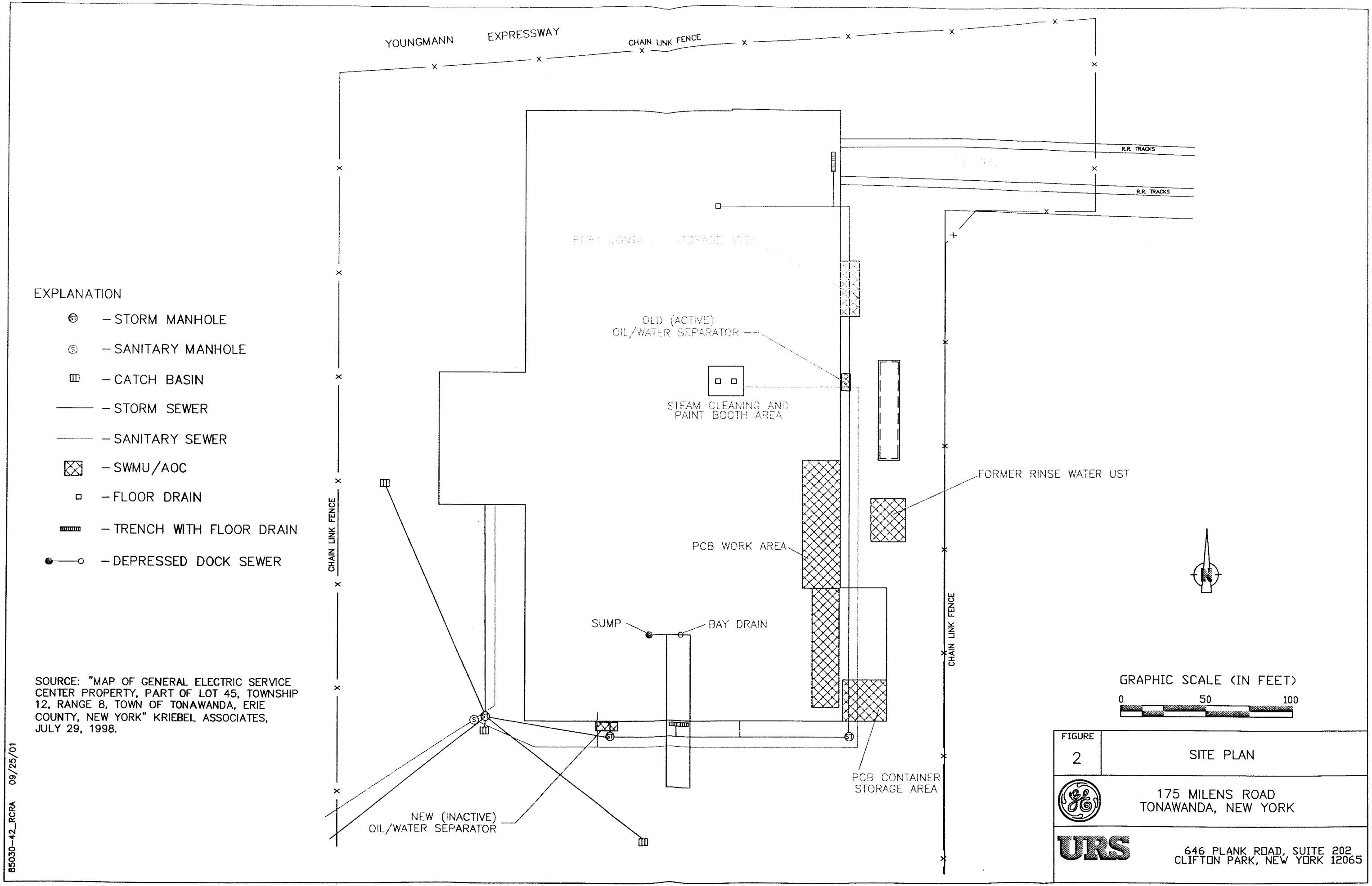


FIGURE 3	CLOSURE SCHEDULE
	175 MILENS ROAD TONAWANDA, NEW YORK
URS	646 PLANK ROAD, SUITE 202 CLIFTON PARK, NEW YORK 12065



SOURCE: "MAP OF GENERAL ELECTRIC SERVICE CENTER PROPERTY, PART OF LOT 45, TOWNSHIP 12, RANGE 8, TOWN OF TONAWANDA, ERIE COUNTY, NEW YORK" KRIEBEL ASSOCIATES, JULY 29, 1998.

B5030-42_RCRA 09/25/01

FIGURE 2

SITE PLAN

175 MILENS ROAD
TONAWANDA, NEW YORK

URS

646 PLANK ROAD, SUITE 202
CLIFTON PARK, NEW YORK 12065

APPENDIX B

NYSDEC Approval Letter

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

Erin M. Crotty
Commissioner

February 13, 2002

Mr. A. Hejmanowski
EHS Coordinator
GE Apparatus Service Center
175 Milens Road
Tonawanda, New York 14150-6794

Dear Mr. Hejmanowski:

Revised RCRA Closure Plan
GE Apparatus Service Center
Tonawanda, New York

The New York State Department of Environmental Conservation has reviewed the Revised RCRA Closure Plan dated January 4, 2002 for the GE Apparatus Service Center in Tonawanda, New York. Upon review of the closure plan, the Department finds this plan to be acceptable.

Please contact this office one week prior to the commencement of the decontamination and sampling activities.

If you have any questions regarding the Closure Plan, please contact Ms. Kathleen Emery of my staff at (716) 851-7220.

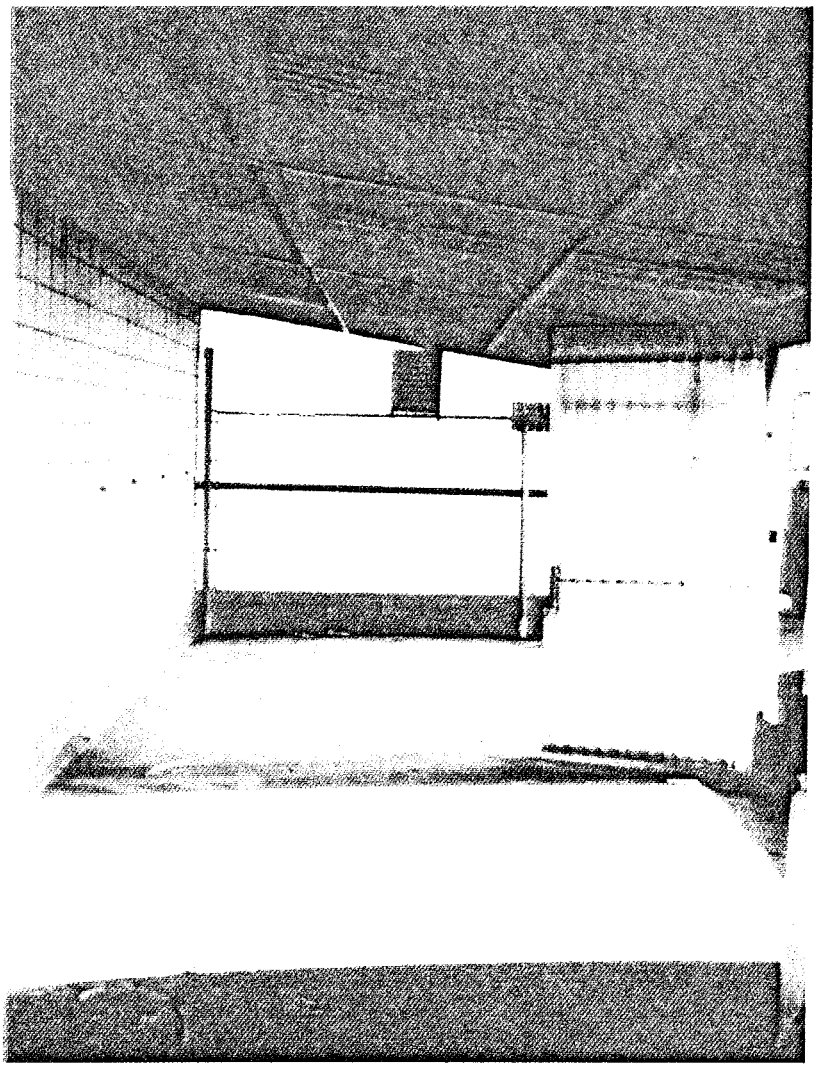
Sincerely,

James G. Strickland , P.E.
Regional Hazardous Materials Engineer

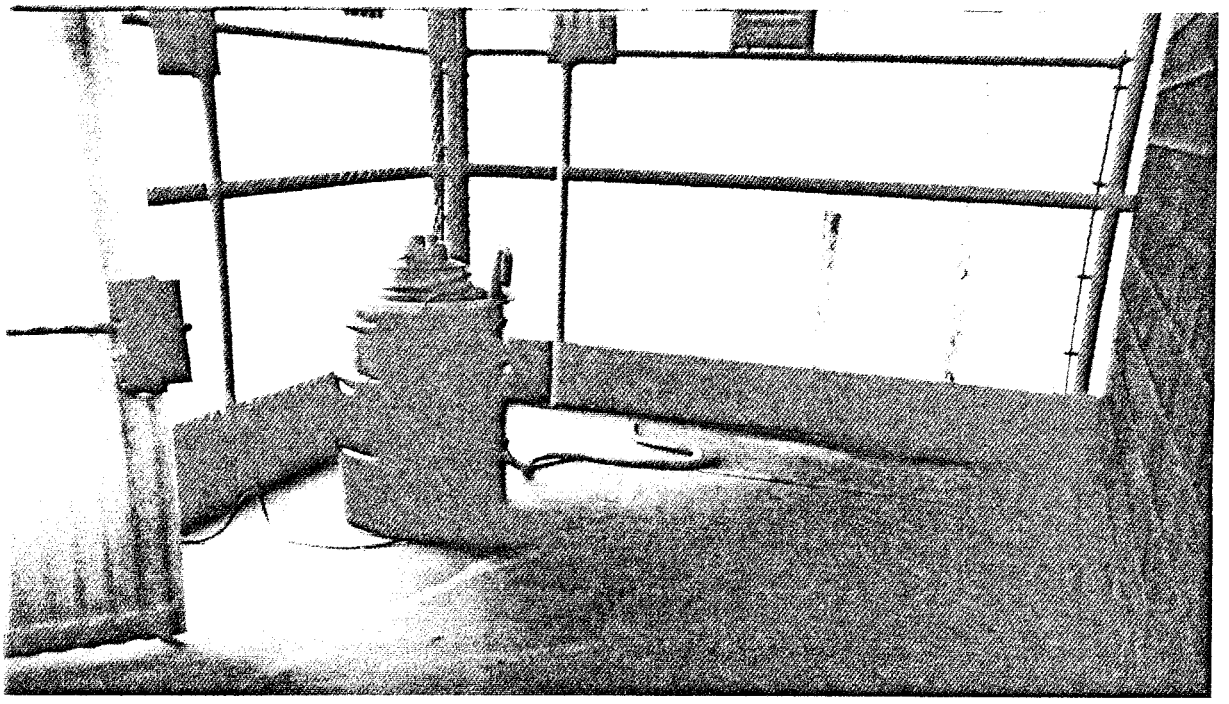
cc: Ms. Kathleen Emery, DEC, Buffalo
Mr. Roger Murphy, DEC, Albany
Mr. James Reidy, EPA, Region II
Ms. Dawn Varacchi, GE
Mr. Don Porterfield, URS

APPENDIX C

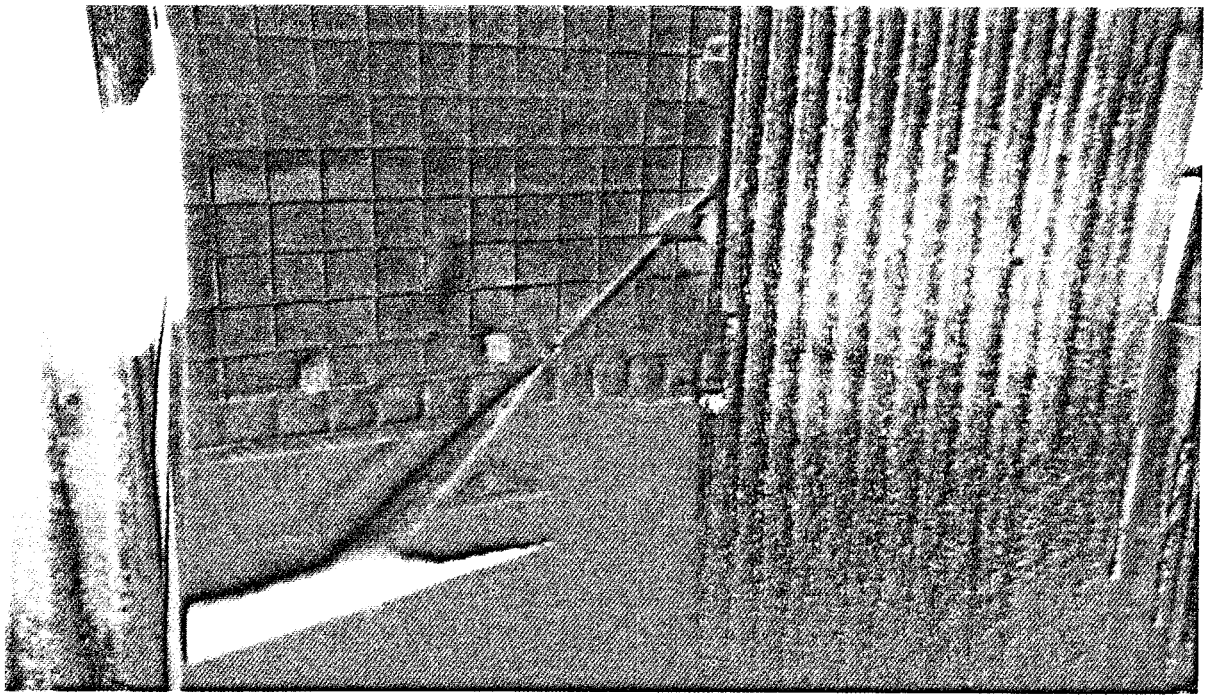
Photographs



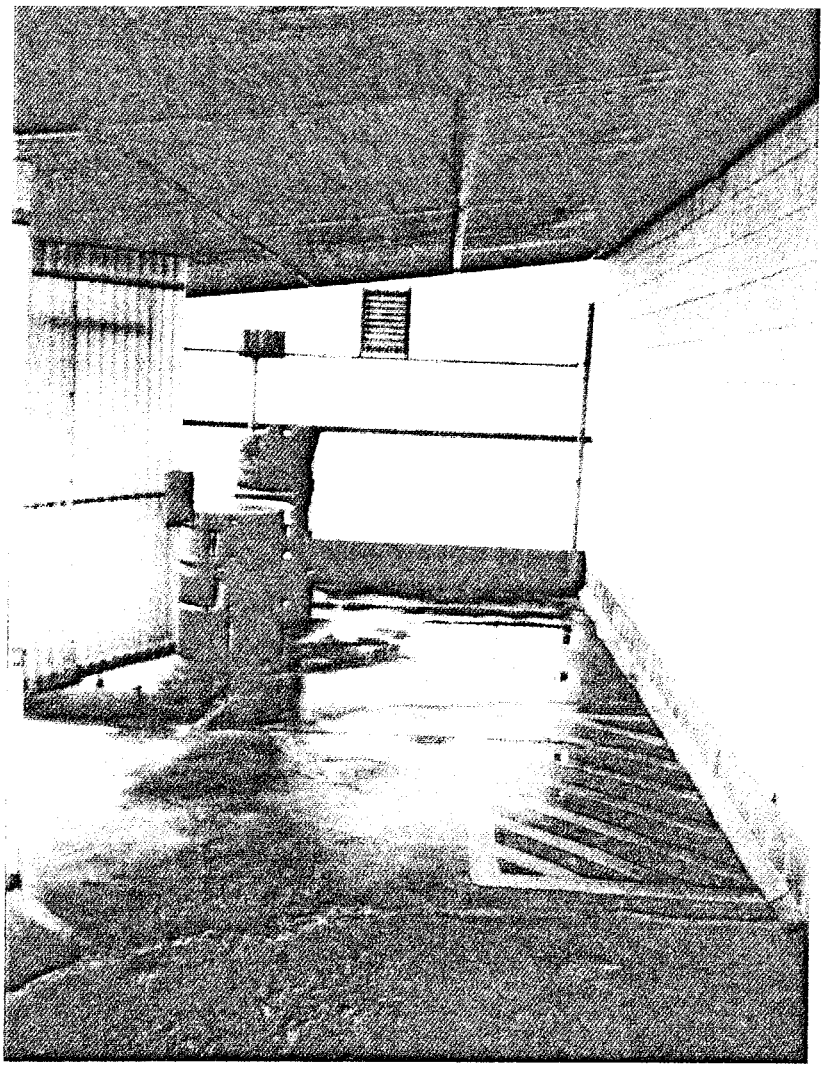
Photograph 1: View to the north of RCRA CSA before cleaning (June 19, 2002).



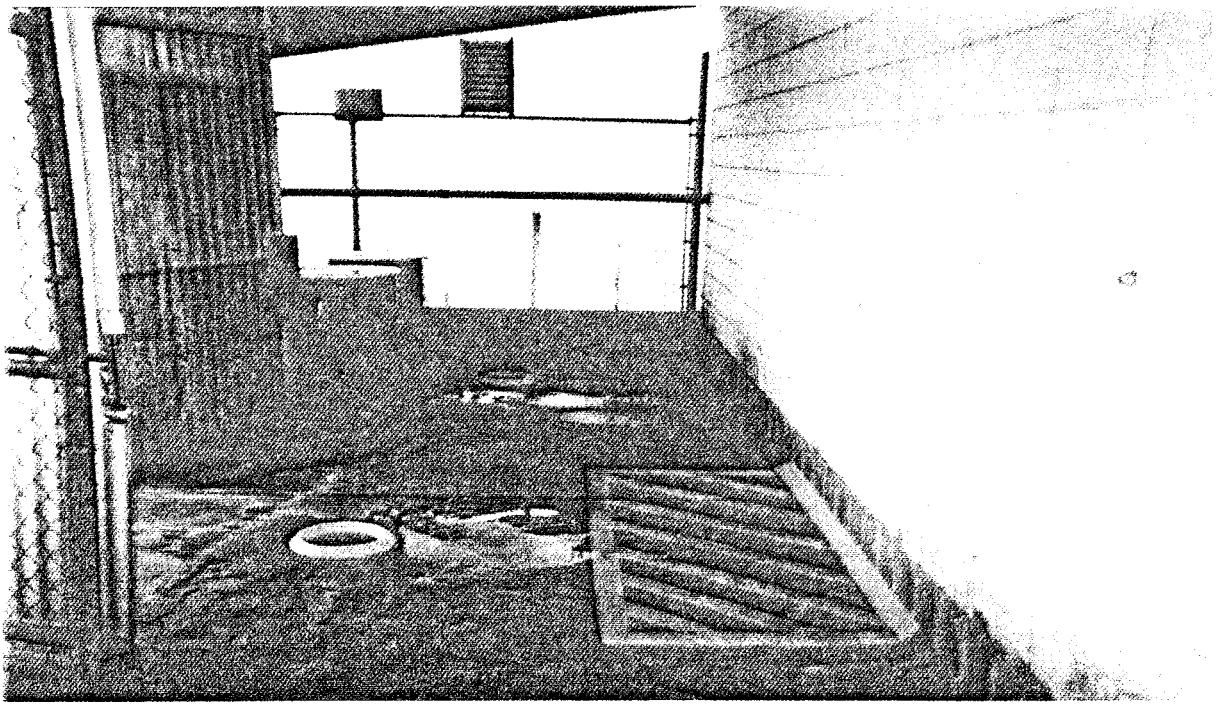
Photograph 2: Preparing to wash - view to the south of drum-mounted vacuum for recovery of wash water (June 19, 2002).



Photograph 3: View to the west of RCRA CSA floor washing (June 19, 2002).



Photograph 4: View to the south of the RCRA CSA after cleaning (June 19, 2002).



Photograph 5: View to the south of rinsate sampling locations - CSA-2 in foreground and CSA-3 in background (June 19, 2002).

APPENDIX D

Final Waste Manifest

** TOTAL PAGE.02 ** (printed upside down)

NYG 2633139

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple

(Hazardous Waste Manifest 1/5/89)

In case of emergency or spill immediately call the National Response Center (800) 424-8802 the NYS Department of Environmental Conservation (518) 457-7362

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NYD067539940 | Manifest Doc. No.: 33139 | 2. Page 1 of 1 | Information within heavy bold line is not required by Federal Law.

3. Generator's Name and Mailing Address: General Electric Power, 175 Millens Road, Tonawanda, NY 14150
4. Generator's Telephone Number: (716) 871-7233

A. NYG 2633139
B. Generator's ID: SAME

5. Transporter 1 (Company Name): Clean Harbors Env Services Inc
6. US EPA ID Number: MAD039322250
C. State Transporter's ID: 33414 7MA
D. Transporter's Telephone: (781) 849-1800

7. Transporter 2 (Company Name): Dart Trucking Co., Inc.
8. US EPA ID Number: OHD0098655215
E. State Transporter's ID: HW110034609 OH
F. Transporter's Telephone: 800 541 8206

9. Designated Facility Name and Site Address: Spring Grove Resource Recovery, 4879 Spring Grove Avenue, Cincinnati, OH 45232
10. US EPA ID Number: OHD000816629
G. State Facility ID:
H. Facility Telephone: ~~513 681 5738~~

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PAINT RELATED MATERIAL, 3, UN1263, I	001	DM	300	P	EPA D001 / STATE
b. ~~HAZARDOUS WASTE LIQUID, N.O.S. (LEAD, MOTOR OIL), 9, NA3082, III~~	003	DM	1169	P	EPA D008 / STATE
c. ~~HAZARDOUS WASTE SOLID, N.O.S. (MERCURY), 9,~~ NA3077, III	007	CF	140	P	EPA ~~D009~~ / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials Listed Above
a. (SL).(I).(ERG#:127)
b. (L).(E).(ERG#:171)
c. (S).(E).(ERG#:171)
d.

K. Handling Codes for Wastes Listed Above: a. b. c. d.

15. Special Handling Instructions and Additional Information
11a CH160741
11b CH160743
11c CH172202
NYS HANDLING CODES: 11a,b) B, 11c) L
IN EMERGENCY, CALL CHES 1-800-645-8265
WO# D2411122

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and state laws and regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: [signature] | Signature: [signature] | Mo. Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jeffrey Carpenter | Signature: [signature] | Mo. Day Year: 09/10/02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Dennis L Shaw | Signature: [signature] | Mo. Day Year: 09/1/02

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Tim Daly | Signature: [signature] | Mo. Day Year: 09/16/02

GENERATOR / TRANSPORTER / FACILITY

COPY 5—Generator—Mailed by TSD Facility

APPENDIX E

Laboratory Analytical Reports

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#: A02-6392

STL Project#: NY2A8944
Site Name: URS, INC.
Task: GE Tonawanda

Mr. Mark Colmerauer
URS, Inc.
282 Delaware Ave
Buffalo, NY 14202-1805

CC: Ms. Karen Peppin

STL Buffalo

Amy Lynn Haag
Project Manager

07/02/2002

This report contains 27 pages which are individually numbered.

SEVERN TRENT SERVICES

SAMPLE SUMMARY

000001

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A2639201	CSA-1	06/19/2002	14:00	06/19/2002	15:40
A2639202	CSA-2	06/19/2002	14:15	06/19/2002	15:40
A2639203	CSA-3	06/19/2002	14:30	06/19/2002	15:40
A2639204	EB-061902	06/19/2002	14:45	06/19/2002	15:40
A2639205	RB-061902	06/19/2002	14:55	06/19/2002	15:40
A2639206	TB-061902	06/19/2002	15:15	06/19/2002	15:40

METHODS SUMMARY

Job#: A02-6392

000002

STL Project#: NY2A8944
Site Name: URS, INC.

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Lead - Total	SW8463 6010
Mercury - Total	SW8463 7470
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010

References:

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

SEVERN TRENT SERVICES

NON-CONFORMANCE SUMMARY

Job#: A02-6392

000003

STL Project#: NY2A8944
Site Name: URS, INC.

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

A02-6392
Sample Cooler(s) were received at the following temperature(s) 20°C, no ice present. Samples were brought directly from the field to the lab.

GC/MS Volatile Data

The analyte Methylene Chloride was detected in VBLK54 and VBLK56 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

****

DATA COMMENT PAGE

000004

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

Sample Data Package

Date: 07/02/2002
Time: 10:26:49

URS, INC.
GE Tonawanda
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		CSA-1		CSA-2		CSA-3		EB-061902	
Job No	Lab ID	A02-6392	A2639201	A02-6392	A2639202	A02-6392	A2639203	A02-6392	A2639204
Sample Date		06/19/2002		06/19/2002		06/19/2002		06/19/2002	

Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	5.2	5.0	8.8	5.0	8.8	5.0	1.7 J	5.0
Benzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromodichloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromoform	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Butanone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Carbon Disulfide	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethene (Total)	UG/L	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,2-Dichloropropane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Hexanone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Methylene chloride	UG/L	0.50 BJ	1.0	0.62 BJ	1.0	0.54 BJ	1.0	0.62 BJ	1.0
4-Methyl-2-pentanone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Styrene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	UG/L	ND	1.0	0.30 J	1.0	0.28 J	1.0	ND	1.0
1,1,1-Trichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl acetate	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Vinyl chloride	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Total Xylenes	UG/L	ND	3.0	ND	3.0	ND	3.0	ND	3.0
IS/SURROGATE(S)									
Chlorobenzene-D5	%	92	50-200	90	50-200	90	50-200	79	50-200
1,4-Difluorobenzene	%	88	50-200	85	50-200	85	50-200	75	50-200
1,4-Dichlorobenzene-D4	%	78	50-200	78	50-200	79	50-200	69	50-200
Toluene-D8	%	105	73-119	107	73-119	108	73-119	109	73-119
p-Bromofluorobenzene	%	91	70-116	97	70-116	95	70-116	96	70-116
1,2-Dichloroethane-D4	%	116	72-138	125	72-138	123	72-138	123	72-138

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 07/02/2002
Time: 10:26:49

URS, INC.
GE Tonawanda
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		RB-061902							
Job No	Lab ID	A02-6392	A2639205						
Sample Date		06/19/2002							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	NA		NA		NA	
Benzene	UG/L	ND	1.0	NA		NA		NA	
Bromodichloromethane	UG/L	ND	1.0	NA		NA		NA	
Bromoform	UG/L	ND	1.0	NA		NA		NA	
Bromomethane	UG/L	ND	1.0	NA		NA		NA	
2-Butanone	UG/L	ND	5.0	NA		NA		NA	
Carbon Disulfide	UG/L	ND	1.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	ND	1.0	NA		NA		NA	
Chlorobenzene	UG/L	ND	1.0	NA		NA		NA	
Chloroethane	UG/L	ND	1.0	NA		NA		NA	
Chloroform	UG/L	ND	1.0	NA		NA		NA	
Chloromethane	UG/L	ND	1.0	NA		NA		NA	
Dibromochloromethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloroethene (Total)	UG/L	ND	2.0	NA		NA		NA	
1,2-Dichloropropane	UG/L	ND	1.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
Ethylbenzene	UG/L	ND	1.0	NA		NA		NA	
2-Hexanone	UG/L	ND	5.0	NA		NA		NA	
Methylene chloride	UG/L	0.66 BJ	1.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	NA		NA		NA	
Styrene	UG/L	ND	1.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	NA		NA		NA	
Tetrachloroethene	UG/L	ND	1.0	NA		NA		NA	
Toluene	UG/L	ND	1.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	
Trichloroethene	UG/L	ND	1.0	NA		NA		NA	
Vinyl acetate	UG/L	ND	5.0	NA		NA		NA	
Vinyl chloride	UG/L	ND	1.0	NA		NA		NA	
Total Xylenes	UG/L	ND	3.0	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	79	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	76	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	68	50-200	NA		NA		NA	
Toluene-D8	%	109	73-119	NA		NA		NA	
p-Bromofluorobenzene	%	93	70-116	NA		NA		NA	
1,2-Dichloroethane-D4	%	119	72-138	NA		NA		NA	

000007

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 07/02/2002
Time: 10:26:58

URS, INC.
GE Tonawanda
TOTAL METALS (AS,BA,CD,CR,PB,HG,SE,AG)

Rept: AN0326

Client ID		CSA-1		CSA-2		CSA-3		EB-061902	
Job No	Lab ID	A02-6392	A2639201	A02-6392	A2639202	A02-6392	A2639203	A02-6392	A2639204
Sample Date		06/19/2002		06/19/2002		06/19/2002		06/19/2002	

Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/L	ND	0.0070	ND	0.0070	ND	0.0070	ND	0.0070
Barium - Total	MG/L	0.034	0.0010	0.0086	0.0010	0.010	0.0010	0.047	0.0010
Cadmium - Total	MG/L	0.0013	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Chromium - Total	MG/L	0.35	0.0020	0.024	0.0020	ND	0.0020	ND	0.0020
Lead - Total	MG/L	0.020	0.010	ND	0.010	ND	0.010	ND	0.010
Mercury - Total	MG/L	ND	0.00020	ND	0.00020	ND	0.00020	ND	0.00020
Selenium - Total	MG/L	ND	0.010	ND	0.010	ND	0.010	ND	0.010
Silver - Total	MG/L	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030

Client ID		RB-061902							
Job No	Lab ID	A02-6392	A2639205						
Sample Date		06/19/2002							

Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/L	ND	0.0070	NA		NA		NA	
Barium - Total	MG/L	0.047	0.0010	NA		NA		NA	
Cadmium - Total	MG/L	ND	0.0010	NA		NA		NA	
Chromium - Total	MG/L	ND	0.0020	NA		NA		NA	
Lead - Total	MG/L	ND	0.010	NA		NA		NA	
Mercury - Total	MG/L	ND	0.00020	NA		NA		NA	
Selenium - Total	MG/L	ND	0.010	NA		NA		NA	
Silver - Total	MG/L	ND	0.0030	NA		NA		NA	

000068

NA = Not Applicable ND = Not Detected

STL Buffalo

Chronology and QC Summary Package

Date: 07/02/2002
Time: 10:27:08

URS, INC.
GE Tonawanda
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		vblk54		vblk56					
Job No	Lab ID	A02-6392	A2639207	A02-6392	A2639209				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	ND	5.0	NA		NA	
Benzene	UG/L	ND	1.0	ND	1.0	NA		NA	
Bromodichloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Bromoform	UG/L	ND	1.0	ND	1.0	NA		NA	
Bromomethane	UG/L	ND	1.0	ND	1.0	NA		NA	
2-Butanone	UG/L	ND	5.0	ND	5.0	NA		NA	
Carbon Disulfide	UG/L	ND	1.0	ND	1.0	NA		NA	
Carbon Tetrachloride	UG/L	ND	1.0	ND	1.0	NA		NA	
Chlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
Chloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Chloroform	UG/L	ND	1.0	ND	1.0	NA		NA	
Chloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Dibromochloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1-Dichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1-Dichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dichloroethene (Total)	UG/L	ND	2.0	ND	2.0	NA		NA	
1,2-Dichloropropane	UG/L	ND	1.0	ND	1.0	NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	NA		NA	
Ethylbenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
2-Hexanone	UG/L	ND	5.0	ND	5.0	NA		NA	
Methylene chloride	UG/L	0.42 J	1.0	0.34 J	1.0	NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	ND	5.0	NA		NA	
Styrene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Tetrachloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
Toluene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,1-Trichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,2-Trichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Trichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
Vinyl acetate	UG/L	ND	5.0	ND	5.0	NA		NA	
Vinyl chloride	UG/L	ND	1.0	ND	1.0	NA		NA	
Total Xylenes	UG/L	ND	3.0	ND	3.0	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	85	50-200	90	50-200	NA		NA	
1,4-Difluorobenzene	%	81	50-200	87	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	73	50-200	75	50-200	NA		NA	
Toluene-D8	%	110	73-119	110	73-119	NA		NA	
p-Bromofluorobenzene	%	95	70-116	94	70-116	NA		NA	
1,2-Dichloroethane-D4	%	120	72-138	115	72-138	NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 07/02/2002
Time: 10:27:08

URS, INC.
GE Tonawanda
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID Job No Lab ID Sample Date		Matrix Spike Blank A02-6392 A2639208		Matrix Spike Blank A02-6392 A2639210					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	ND	5.0	NA		NA	
Benzene	UG/L	10	1.0	8.6	1.0	NA		NA	
Bromodichloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Bromoform	UG/L	ND	1.0	ND	1.0	NA		NA	
Bromomethane	UG/L	ND	1.0	ND	1.0	NA		NA	
2-Butanone	UG/L	ND	5.0	ND	5.0	NA		NA	
Carbon Disulfide	UG/L	ND	1.0	ND	1.0	NA		NA	
Carbon Tetrachloride	UG/L	ND	1.0	ND	1.0	NA		NA	
Chlorobenzene	UG/L	9.8	1.0	8.7	1.0	NA		NA	
Chloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Chloroform	UG/L	ND	1.0	ND	1.0	NA		NA	
Chloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Dibromochloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1-Dichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1-Dichloroethene	UG/L	11	1.0	9.2	1.0	NA		NA	
1,2-Dichloroethene (Total)	UG/L	ND	2.0	ND	2.0	NA		NA	
1,2-Dichloropropane	UG/L	ND	1.0	ND	1.0	NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	NA		NA	
Ethylbenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
2-Hexanone	UG/L	ND	5.0	ND	5.0	NA		NA	
Methylene chloride	UG/L	0.56 BJ	1.0	ND	1.0	NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	ND	5.0	NA		NA	
Styrene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Tetrachloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
Toluene	UG/L	9.7	1.0	8.6	1.0	NA		NA	
1,1,1-Trichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,2-Trichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Trichloroethene	UG/L	9.6	1.0	8.4	1.0	NA		NA	
Vinyl acetate	UG/L	ND	5.0	ND	5.0	NA		NA	
Vinyl chloride	UG/L	ND	1.0	ND	1.0	NA		NA	
Total Xylenes	UG/L	ND	3.0	ND	3.0	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	91	50-200	123	50-200	NA		NA	
1,4-Difluorobenzene	%	90	50-200	126	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	78	50-200	103	50-200	NA		NA	
Toluene-D8	%	109	73-119	86	73-119	NA		NA	
p-Bromofluorobenzene	%	98	70-116	78	70-116	NA		NA	
1,2-Dichloroethane-D4	%	111	72-138	85	72-138	NA		NA	

000014

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 07/02/2002
Time: 10:27:08

URS, INC.
GE Tonawanda
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		TB-061902							
Job No	Lab ID	A02-6392	A2639206						
Sample Date		06/19/2002							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	NA		NA		NA	
Benzene	UG/L	ND	1.0	NA		NA		NA	
Bromodichloromethane	UG/L	ND	1.0	NA		NA		NA	
Bromoform	UG/L	ND	1.0	NA		NA		NA	
Bromomethane	UG/L	ND	1.0	NA		NA		NA	
2-Butanone	UG/L	ND	5.0	NA		NA		NA	
Carbon Disulfide	UG/L	ND	1.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	ND	1.0	NA		NA		NA	
Chlorobenzene	UG/L	ND	1.0	NA		NA		NA	
Chloroethane	UG/L	ND	1.0	NA		NA		NA	
Chloroform	UG/L	ND	1.0	NA		NA		NA	
Chloromethane	UG/L	ND	1.0	NA		NA		NA	
Dibromochloromethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloroethene (Total)	UG/L	ND	2.0	NA		NA		NA	
1,2-Dichloropropane	UG/L	ND	1.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
Ethylbenzene	UG/L	ND	1.0	NA		NA		NA	
2-Hexanone	UG/L	ND	5.0	NA		NA		NA	
Methylene chloride	UG/L	ND	1.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	NA		NA		NA	
Styrene	UG/L	ND	1.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	NA		NA		NA	
Tetrachloroethene	UG/L	ND	1.0	NA		NA		NA	
Toluene	UG/L	ND	1.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	
Trichloroethene	UG/L	ND	1.0	NA		NA		NA	
Vinyl acetate	UG/L	ND	5.0	NA		NA		NA	
Vinyl chloride	UG/L	ND	1.0	NA		NA		NA	
Total Xylenes	UG/L	ND	3.0	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	86	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	79	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	75	50-200	NA		NA		NA	
Toluene-D8	%	104	73-119	NA		NA		NA	
p-Bromofluorobenzene	%	92	70-116	NA		NA		NA	
1,2-Dichloroethane-D4	%	115	72-138	NA		NA		NA	

000012

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 07/02/2002
Time: 10:27:18

URS, INC.
GE Tonawanda
TOTAL METALS (AS,BA,CD,CR,PB,HG,SE,AG)

Rept: AN0326

Client ID Job No Lab ID Sample Date		Method Blank A02-6392 A2B0564902		Method Blank A02-6392 A2B0574703					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Silver - Total	MG/L	ND	0.0030	NA		NA		NA	
Cadmium - Total	MG/L	ND	0.0010	NA		NA		NA	
Barium - Total	MG/L	ND	0.0010	NA		NA		NA	
Selenium - Total	MG/L	ND	0.010	NA		NA		NA	
Arsenic - Total	MG/L	ND	0.0070	NA		NA		NA	
Chromium - Total	MG/L	ND	0.0020	NA		NA		NA	
Lead - Total	MG/L	ND	0.010	NA		NA		NA	
Mercury - Total	MG/L	NA		ND	0.00020	NA		NA	

000013

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 07/02/2002
Time: 10:27:18

URS, INC.
GE Tonawanda
TOTAL METALS (AS,BA,CD,CR,PB,HG,SE,AG)

Rept: AN0326

Client ID		CSA-1		CSA-1		LCS		LFB	
Job No	Lab ID	A02-6392	A2639201MS	A02-6392	A2639201SD	A02-6392	A2B0574701	A02-6392	A2B0564901
Sample Date		06/19/2002		06/19/2002					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/L	0.20	0.0070	0.20	0.0070	NA		0.20	0.0070
Barium - Total	MG/L	0.24	0.0010	0.24	0.0010	NA		0.20	0.0010
Cadmium - Total	MG/L	0.21	0.0010	0.20	0.0010	NA		0.20	0.0010
Chromium - Total	MG/L	0.56	0.0020	0.55	0.0020	NA		0.20	0.0020
Lead - Total	MG/L	0.22	0.010	0.22	0.010	NA		0.20	0.010
Mercury - Total	MG/L	0.0066	0.00020	0.0064	0.00020	0.0068	0.00020	NA	
Selenium - Total	MG/L	0.19	0.010	0.19	0.010	NA		0.19	0.010
Silver - Total	MG/L	0.053	0.0030	0.052	0.0030	NA		0.052	0.0030

Client ID		LFB							
Job No	Lab ID	A02-6392	A2B0574702						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Mercury - Total	MG/L	0.0066	0.00020	NA		NA		NA	

000014

NA = Not Applicable ND = Not Detected

STL Buffalo

Client Sample ID: vblk54 Matrix Spike Blank
Lab Sample ID: A2639207 A2639208

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - TCL VOLATILE ORGANICS					
1,1-Dichloroethene	UG/L	10.9	10.0	110	64-138
Trichloroethene	UG/L	9.64	10.0	96	69-122
Benzene	UG/L	9.98	10.0	100	69-126
Toluene	UG/L	9.67	10.0	97	68-121
Chlorobenzene	UG/L	9.79	10.0	98	72-117

000015

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Calculated

Client Sample ID: vblk56 Matrix Spike Blank
Lab Sample ID: A2639209 A2639210

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - TCL VOLATILE ORGANICS					
1,1-Dichloroethene	UG/L	9.18	10.0	92	64-138
Trichloroethene	UG/L	8.44	10.0	84	69-122
Benzene	UG/L	8.65	10.0	86	69-126
Toluene	UG/L	8.64	10.0	86	68-121
Chlorobenzene	UG/L	8.72	10.0	87	72-117

000075

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Calculated

Client Sample ID: CSA-1 | CSA-1 | CSA-1
Lab Sample ID: A2639201 | A2639201MS | A2639201SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
TOTAL METALS (AS,BA,CD,CR,PB,HG,SE,AG)												
TOTAL ARSENIC	MG/L	0	0.202	0.203	0.20	0.20	101	101	101	0.	20.0	80-120
TOTAL BARIUM	MG/L	0.0341	0.238	0.238	0.20	0.20	102	102	102	0.	20.0	80-120
TOTAL CADMIUM	MG/L	0.00130	0.206	0.204	0.20	0.20	102	101	102	0.	20.0	80-120
TOTAL CHROMIUM	MG/L	0.349	0.558	0.553	0.20	0.20	104	102	103	3	20.0	80-120
TOTAL LEAD	MG/L	0.0202	0.220	0.219	0.20	0.20	100	99	100	0.	20.0	80-120
TOTAL MERCURY	MG/L	0	0.00665	0.00643	0.0066	0.0066	99	96	98	3	20.0	80-120
TOTAL SELENIUM	MG/L	0	0.191	0.189	0.20	0.20	95	94	95	0.	20.0	80-120
TOTAL SILVER	MG/L	0	0.0527	0.0525	0.050	0.050	105	105	105	0.	20.0	80-120

000017

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Calculated

Client Sample ID: Method Blank LFB
Lab Sample ID: A2B0564902 A2B0564901

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL METALS (AS,BA,CD,CR,PB,HG,SE,AG)					
TOTAL ARSENIC	MG/L	0.200	0.20	100	80-120
TOTAL BARIUM	MG/L	0.201	0.20	100	80-120
TOTAL CADMIUM	MG/L	0.203	0.20	101	80-120
TOTAL CHROMIUM	MG/L	0.205	0.20	102	80-120
TOTAL LEAD	MG/L	0.203	0.20	101	80-120
TOTAL SELENIUM	MG/L	0.189	0.20	94	80-120
TOTAL SILVER	MG/L	0.0516	0.050	103	80-120

000018

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Calculated

Client Sample ID: Method Blank LCS
Lab Sample ID: A2B0574703 A2B0574701

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL METALS (AS,BA,CD,CR,PB,HG,SE,AG) TOTAL MERCURY	MG/L	0.00677	0.0066	101	80-120

000019

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Calculated

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	CSA-1 A02-6392 A2639201	CSA-2 A02-6392 A2639202	CSA-3 A02-6392 A2639203	EB-061902 A02-6392 A2639204	RB-061902 A02-6392 A2639205
Sample Date	06/19/2002 14:00	06/19/2002 14:15	06/19/2002 14:30	06/19/2002 14:45	06/19/2002 14:55
Received Date	06/19/2002 15:40	06/19/2002 15:40	06/19/2002 15:40	06/19/2002 15:40	06/19/2002 15:40
Extraction Date					
Analysis Date	06/27/2002 12:22	06/27/2002 12:55	06/27/2002 13:27	06/27/2002 08:04	06/27/2002 07:32
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol	0.025 LITERS	0.025 LITERS	0.025 LITERS	0.025 LITERS	0.025 LITERS
% Dry					

000020

NA = Not Applicable

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	TB-061902 A02-6392 A2639206				
Sample Date	06/19/2002 15:15				
Received Date	06/19/2002 15:40				
Extraction Date					
Analysis Date	06/27/2002 06:59				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.025 LITERS				
% Dry					

000021

NA = Not Applicable

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A02-6392 A2639208	Matrix Spike Blank A02-6392 A2639210			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	06/26/2002 23:20	06/27/2002 10:11			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	WATER	WATER			
Dilution Factor	1.0	1.0			
Sample wt/vol	0.025 LITERS	0.025 LITERS			
% Dry					

000022

NA = Not Applicable

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	vblk54 A02-6392 A2639207	vblk56 A02-6392 A2639209			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	06/26/2002 23:53	06/27/2002 11:49			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	WATER	WATER			
Dilution Factor	1.0	1.0			
Sample wt/vol	0.025 LITERS	0.025 LITERS			
% Dry					

000063

NA = Not Applicable

Date: 07/02/2002 10:27:49
Jobno: A02-6392

U R S GREINER, INC
SAMPLE CHRONOLOGY

Rept: AN0369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A2639201	CSA-1	MG/L	Arsenic - Total	6010	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/27 00:26	Yes	WATER
		MG/L	Barium - Total	6010	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/27 00:26	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/27 00:26	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/27 00:26	Yes	WATER
		MG/L	Lead - Total	6010	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/27 00:26	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/25	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/27 00:26	Yes	WATER
		MG/L	Silver - Total	6010	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/27 00:26	Yes	WATER
A2639202	CSA-2	MG/L	Arsenic - Total	6010	1.00	06/19/2002 14:15	06/19 15:40	NA	NA	06/27 00:48	Yes	WATER
		MG/L	Barium - Total	6010	1.00	06/19/2002 14:15	06/19 15:40	NA	NA	06/27 00:48	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	06/19/2002 14:15	06/19 15:40	NA	NA	06/27 00:48	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	06/19/2002 14:15	06/19 15:40	NA	NA	06/27 00:48	Yes	WATER
		MG/L	Lead - Total	6010	1.00	06/19/2002 14:15	06/19 15:40	NA	NA	06/27 00:48	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	06/19/2002 14:15	06/19 15:40	NA	NA	06/25	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	06/19/2002 14:15	06/19 15:40	NA	NA	06/27 00:48	Yes	WATER
		MG/L	Silver - Total	6010	1.00	06/19/2002 14:15	06/19 15:40	NA	NA	06/27 00:48	Yes	WATER
A2639203	CSA-3	MG/L	Arsenic - Total	6010	1.00	06/19/2002 14:30	06/19 15:40	NA	NA	06/27 01:01	Yes	WATER
		MG/L	Barium - Total	6010	1.00	06/19/2002 14:30	06/19 15:40	NA	NA	06/27 01:01	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	06/19/2002 14:30	06/19 15:40	NA	NA	06/27 01:01	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	06/19/2002 14:30	06/19 15:40	NA	NA	06/27 01:01	Yes	WATER
		MG/L	Lead - Total	6010	1.00	06/19/2002 14:30	06/19 15:40	NA	NA	06/27 01:01	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	06/19/2002 14:30	06/19 15:40	NA	NA	06/25	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	06/19/2002 14:30	06/19 15:40	NA	NA	06/27 01:01	Yes	WATER
		MG/L	Silver - Total	6010	1.00	06/19/2002 14:30	06/19 15:40	NA	NA	06/27 01:01	Yes	WATER
A2639204	EB-061902	MG/L	Arsenic - Total	6010	1.00	06/19/2002 14:45	06/19 15:40	NA	NA	06/27 01:05	Yes	WATER
		MG/L	Barium - Total	6010	1.00	06/19/2002 14:45	06/19 15:40	NA	NA	06/27 01:05	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	06/19/2002 14:45	06/19 15:40	NA	NA	06/27 01:05	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	06/19/2002 14:45	06/19 15:40	NA	NA	06/27 01:05	Yes	WATER
		MG/L	Lead - Total	6010	1.00	06/19/2002 14:45	06/19 15:40	NA	NA	06/27 01:05	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	06/19/2002 14:45	06/19 15:40	NA	NA	06/25	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	06/19/2002 14:45	06/19 15:40	NA	NA	06/27 01:05	Yes	WATER
		MG/L	Silver - Total	6010	1.00	06/19/2002 14:45	06/19 15:40	NA	NA	06/27 01:05	Yes	WATER
A2639205	RB-061902	MG/L	Arsenic - Total	6010	1.00	06/19/2002 14:55	06/19 15:40	NA	NA	06/27 01:10	Yes	WATER
		MG/L	Barium - Total	6010	1.00	06/19/2002 14:55	06/19 15:40	NA	NA	06/27 01:10	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	06/19/2002 14:55	06/19 15:40	NA	NA	06/27 01:10	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	06/19/2002 14:55	06/19 15:40	NA	NA	06/27 01:10	Yes	WATER
		MG/L	Lead - Total	6010	1.00	06/19/2002 14:55	06/19 15:40	NA	NA	06/27 01:10	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	06/19/2002 14:55	06/19 15:40	NA	NA	06/25	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	06/19/2002 14:55	06/19 15:40	NA	NA	06/27 01:10	Yes	WATER
		MG/L	Silver - Total	6010	1.00	06/19/2002 14:55	06/19 15:40	NA	NA	06/27 01:10	Yes	WATER

000024

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

STL Buffalo

Date: 07/02/2002 10:27:49
Jobno: A02-6392

U R S GREINER, INC
QC CHRONOLOGY

Rept: AN0369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A2639201MS	CSA-1	MG/L	Arsenic - Total	6010	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/27 00:39	Yes	WATER
		MG/L	Barium - Total	6010	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/27 00:39	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/27 00:39	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/27 00:39	Yes	WATER
		MG/L	Lead - Total	6010	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/27 00:39	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/25	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/27 00:39	Yes	WATER
		MG/L	Silver - Total	6010	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/27 00:39	Yes	WATER
A2639201SD	CSA-1	MG/L	Arsenic - Total	6010	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/27 00:43	Yes	WATER
		MG/L	Barium - Total	6010	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/27 00:43	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/27 00:43	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/27 00:43	Yes	WATER
		MG/L	Lead - Total	6010	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/27 00:43	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/25	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/27 00:43	Yes	WATER
		MG/L	Silver - Total	6010	1.00	06/19/2002 14:00	06/19 15:40	NA	NA	06/27 00:43	Yes	WATER
A2B0564902	Method Blank	MG/L	Arsenic - Total	6010	1.00	-	- 15:40	NA	NA	06/26 22:56	Yes	WATER
		MG/L	Barium - Total	6010	1.00	-	- 15:40	NA	NA	06/26 22:56	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	-	- 15:40	NA	NA	06/26 22:56	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	-	- 15:40	NA	NA	06/26 22:56	Yes	WATER
		MG/L	Lead - Total	6010	1.00	-	- 15:40	NA	NA	06/26 22:56	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	-	- 15:40	NA	NA	06/26 22:56	Yes	WATER
		MG/L	Silver - Total	6010	1.00	-	- 15:40	NA	NA	06/26 22:56	Yes	WATER
A2B0574703	Method Blank	MG/L	Mercury - Total	7470	1.00	-	- 15:40	NA	NA	06/25	Yes	WATER
A2B0574701	LCS	MG/L	Mercury - Total	7470	1.00	-	- 15:40	NA	NA	06/25	Yes	WATER
A2B0564901	LFB	MG/L	Arsenic - Total	6010	1.00	-	- 15:40	NA	NA	06/26 23:00	Yes	WATER
		MG/L	Barium - Total	6010	1.00	-	- 15:40	NA	NA	06/26 23:00	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	-	- 15:40	NA	NA	06/26 23:00	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	-	- 15:40	NA	NA	06/26 23:00	Yes	WATER
		MG/L	Lead - Total	6010	1.00	-	- 15:40	NA	NA	06/26 23:00	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	-	- 15:40	NA	NA	06/26 23:00	Yes	WATER
		MG/L	Silver - Total	6010	1.00	-	- 15:40	NA	NA	06/26 23:00	Yes	WATER
A2B0574702	LFB	MG/L	Mercury - Total	7470	1.00	-	- 15:40	NA	NA	06/25	Yes	WATER

000025

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody

CHAIN OF CUSTODY RECORD

URS CONSULTANTS, INC.

PROJECT NO. 91-42368533.02

SITE NAME GE-Torrance

SAMPLERS (PRINT/SIGNATURE) Scott McCabe / [signature]

DELIVERY SERVICE: Drop off AIRBILL NO.: ______

LAB STL

COOLER 1 of 1

PAGE 1 of 1

TESTS: TCL VOA (8260); Roth metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

BOTTLE TYPE AND PRESERVATIVE: 40ml VOA HCL; 8oz plastic HNO3

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	40ml VOA HCL	8oz plastic HNO3	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (IRPIMS ONLY)
CSA-1	6/19/02	1400	G	CSA-1	RW	4	3	1		N1	—	—	—
CSA-2	↓	1415	↓	CSA-2	RW	4	3	1		N1	—	—	—
CSA-3	↓	1430	↓	CSA-3	RW	4	3	1		N1	—	—	—
Equipment Blank	↓	1445	↓	EB-061902	WQ	4	3	1	Equipment Blank	EB1	—	—	—
Rinse Blank	↓	1455	↓	RB-061902	WQ	4	3	1	Rinse blank	RB1	—	—	—
Trip Blank	↓	1515	↓	TB-061902	WQ	1	1		Trip blank	TB1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE; RW - Rinse water

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	6/19/02	1540	James Kuker	6/19/02	1540
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

20° (ice present)

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GM

000027

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#: A02-7068

STL Project#: NY2A8944
Site Name: URS, INC.
Task: GE Tonawanda

Mr. Mark Colmerauer
URS, Inc.
282 Delaware Ave
Buffalo, NY 14202-1805

CC: Ms. Karen Peppin

STL Buffalo

Amy Lynn Haag
Project Manager

07/22/2002

This report contains 21 pages which are individually numbered.

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A2706801	CSA-1	07/11/2002	12:45	07/11/2002	14:22
A2706802	EQUIPMENT BLANK 0711	07/11/2002	10:45	07/11/2002	14:22
A2706803	RINSE BLANK 071102	07/11/2002	10:30	07/11/2002	14:22
A2706804	TB 071102	07/11/2002		07/11/2002	14:22

SEVERN TRENT SERVICES

000002

METHODS SUMMARY

Job#: A02-7068

STL Project#: NY2A8944
Site Name: URS, INC.

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Lead - Total	SW8463 6010
Mercury - Total	SW8463 7470
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010

References:

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

SEVERN TRENT SERVICES

NON-CONFORMANCE SUMMARY

Job#: A02-7068

000003

STL Project#: NY2A8944
Site Name: URS, INC.

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

A02-7068

Samples were received at a temperature of 10°C. However, ice was present in the cooler and as the samples were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt. There is no impact on the data.

GC/MS Volatile Data

The analyte Chloromethane was detected in the Method Blank VBLK72 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

****

DATA COMMENT PAGE

000004

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.

Sample Data Package

Date: 07/22/2002
Time: 08:07:04

URS, INC.
GE Tonawanda
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN1246

Client ID		CSA-1		EQUIPMENT BLANK 0711		RINSE BLANK 071102			
Job No	Lab ID	A02-7068	A2706801	A02-7068	A2706802	A02-7068	A2706803		
Sample Date		07/11/2002		07/11/2002		07/11/2002			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Benzene	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
Bromodichloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
Bromoform	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
Bromomethane	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
2-Butanone	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Carbon Disulfide	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
Carbon Tetrachloride	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
Chlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
Chloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
Chloroform	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
Chloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
Dibromochloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
1,1-Dichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
1,2-Dichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
1,1-Dichloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
1,2-Dichloroethene (Total)	UG/L	ND	2.0	ND	2.0	ND	2.0	NA	
1,2-Dichloropropane	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
cis-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
trans-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
Ethylbenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
2-Hexanone	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Methylene chloride	UG/L	0.57 J	1.0	ND	1.0	ND	1.0	NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Styrene	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
Tetrachloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
Toluene	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
1,1,1-Trichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
1,1,2-Trichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
Trichloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
Vinyl acetate	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Vinyl chloride	UG/L	ND	1.0	ND	1.0	ND	1.0	NA	
Total Xylenes	UG/L	ND	3.0	ND	3.0	ND	3.0	NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	102	50-200	100	50-200	98	50-200	NA	
1,4-Difluorobenzene	%	101	50-200	98	50-200	98	50-200	NA	
1,4-Dichlorobenzene-D4	%	100	50-200	99	50-200	97	50-200	NA	
Toluene-D8	%	101	73-119	102	73-119	103	73-119	NA	
p-Bromofluorobenzene	%	110	70-116	112	70-116	111	70-116	NA	
1,2-Dichloroethane-D4	%	108	72-138	112	72-138	108	72-138	NA	

000006

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 07/22/2002
Time: 08:07:13

URS, INC.
GE Tonawanda
TOTAL METALS (AS,BA,CD,CR,PB,HG,SE,AG)

Rept: AN1246

Client ID		CSA-1		EQUIPMENT BLANK 0711		RINSE BLANK 071102			
Job No	Lab ID	A02-7068	A2706801	A02-7068	A2706802	A02-7068	A2706803		
Sample Date		07/11/2002		07/11/2002		07/11/2002			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/L	ND	0.0070	ND	0.0070	ND	0.0070	NA	
Barium - Total	MG/L	0.032	0.0010	ND	0.0010	ND	0.0010	NA	
Cadmium - Total	MG/L	ND	0.0010	ND	0.0010	ND	0.0010	NA	
Chromium - Total	MG/L	0.032	0.0020	ND	0.0020	ND	0.0020	NA	
Lead - Total	MG/L	ND	0.010	ND	0.010	ND	0.010	NA	
Mercury - Total	MG/L	ND	0.00020	ND	0.00020	ND	0.00020	NA	
Selenium - Total	MG/L	ND	0.010	ND	0.010	ND	0.010	NA	
Silver - Total	MG/L	ND	0.0030	ND	0.0030	ND	0.0030	NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Chronology and QC Summary Package

Client ID		VBLK72							
Job No	Lab ID	A02-7068	A2706805						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	NA		NA		NA	
Benzene	UG/L	ND	1.0	NA		NA		NA	
Bromodichloromethane	UG/L	ND	1.0	NA		NA		NA	
Bromoform	UG/L	ND	1.0	NA		NA		NA	
Bromomethane	UG/L	ND	1.0	NA		NA		NA	
2-Butanone	UG/L	ND	5.0	NA		NA		NA	
Carbon Disulfide	UG/L	ND	1.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	ND	1.0	NA		NA		NA	
Chlorobenzene	UG/L	ND	1.0	NA		NA		NA	
Chloroethane	UG/L	ND	1.0	NA		NA		NA	
Chloroform	UG/L	ND	1.0	NA		NA		NA	
Chloromethane	UG/L	0.28 J	1.0	NA		NA		NA	
Dibromochloromethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloroethene (Total)	UG/L	ND	2.0	NA		NA		NA	
1,2-Dichloropropane	UG/L	ND	1.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
Ethylbenzene	UG/L	ND	1.0	NA		NA		NA	
2-Hexanone	UG/L	ND	5.0	NA		NA		NA	
Methylene chloride	UG/L	ND	1.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	NA		NA		NA	
Styrene	UG/L	ND	1.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	NA		NA		NA	
Tetrachloroethene	UG/L	ND	1.0	NA		NA		NA	
Toluene	UG/L	ND	1.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	
Trichloroethene	UG/L	ND	1.0	NA		NA		NA	
Vinyl acetate	UG/L	ND	5.0	NA		NA		NA	
Vinyl chloride	UG/L	ND	1.0	NA		NA		NA	
Total Xylenes	UG/L	ND	3.0	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	99	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	99	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	98	50-200	NA		NA		NA	
Toluene-D8	%	102	73-119	NA		NA		NA	
p-Bromofluorobenzene	%	110	70-116	NA		NA		NA	
1,2-Dichloroethane-D4	%	109	72-138	NA		NA		NA	

600009

NA = Not Applicable ND = Not Detected

Date: 07/22/2002
Time: 08:07:21

URS, INC.
GE Tonawanda
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN1246

Client ID		TB 071102							
Job No	Lab ID	A02-7068	A2706804						
Sample Date		07/11/2002							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	NA		NA		NA	
Benzene	UG/L	ND	1.0	NA		NA		NA	
Bromodichloromethane	UG/L	ND	1.0	NA		NA		NA	
Bromoform	UG/L	ND	1.0	NA		NA		NA	
Bromomethane	UG/L	ND	1.0	NA		NA		NA	
2-Butanone	UG/L	ND	5.0	NA		NA		NA	
Carbon Disulfide	UG/L	ND	1.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	ND	1.0	NA		NA		NA	
Chlorobenzene	UG/L	ND	1.0	NA		NA		NA	
Chloroethane	UG/L	ND	1.0	NA		NA		NA	
Chloroform	UG/L	ND	1.0	NA		NA		NA	
Chloromethane	UG/L	ND	1.0	NA		NA		NA	
Dibromochloromethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloroethene (Total)	UG/L	ND	2.0	NA		NA		NA	
1,2-Dichloropropane	UG/L	ND	1.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
Ethylbenzene	UG/L	ND	1.0	NA		NA		NA	
2-Hexanone	UG/L	ND	5.0	NA		NA		NA	
Methylene chloride	UG/L	ND	1.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	NA		NA		NA	
Styrene	UG/L	ND	1.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	NA		NA		NA	
Tetrachloroethene	UG/L	ND	1.0	NA		NA		NA	
Toluene	UG/L	ND	1.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	
Trichloroethene	UG/L	ND	1.0	NA		NA		NA	
Vinyl acetate	UG/L	ND	5.0	NA		NA		NA	
Vinyl chloride	UG/L	ND	1.0	NA		NA		NA	
Total Xylenes	UG/L	ND	3.0	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	102	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	99	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	101	50-200	NA		NA		NA	
Toluene-D8	%	99	73-119	NA		NA		NA	
p-Bromofluorobenzene	%	110	70-116	NA		NA		NA	
1,2-Dichloroethane-D4	%	112	72-138	NA		NA		NA	

000010

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 07/22/2002
Time: 08:07:31

URS, INC.
GE Tonawanda
TOTAL METALS (AS,BA,CD,CR,PB,HG,SE,AG)

Rept: AN1246

Client ID Job No Lab ID Sample Date		Method Blank A02-7068 A2B0644703		Method Blank A02-7068 A2B0653703					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/L	NA		ND	0.010	NA		NA	
Silver - Total	MG/L	NA		ND	0.0030	NA		NA	
Cadmium - Total	MG/L	NA		ND	0.0010	NA		NA	
Selenium - Total	MG/L	NA		ND	0.010	NA		NA	
Arsenic - Total	MG/L	NA		ND	0.0070	NA		NA	
Barium - Total	MG/L	NA		ND	0.0010	NA		NA	
Chromium - Total	MG/L	NA		ND	0.0020	NA		NA	
Mercury - Total	MG/L	ND	0.00020	NA		NA		NA	

000011

NA = Not Applicable ND = Not Detected

STL Buffalo

Client Sample ID: VBLK72 MSB
Lab Sample ID: A2706805 A2706806

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - TCL VOLATILE ORGANICS					
1,1-Dichloroethene	UG/L	9.08	10.0	91	64-138
Trichloroethene	UG/L	10.0	10.0	100	69-122
Benzene	UG/L	10.0	10.0	100	69-126
Toluene	UG/L	9.69	10.0	97	68-121
Chlorobenzene	UG/L	10.1	10.0	102	72-117

000012

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Calculated

Client Sample ID: Method Blank LCS
Lab Sample ID: A2B0644703 A2B0644702

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL METALS (AS,BA,CD,CR,PB,HG,SE,AG) TOTAL MERCURY	MG/L	0.00630	0.0066	94	80-120

000013

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Calculated

lient Sample ID: Method Blank LFB
Lab Sample ID: A2B0653703 A2B0653701

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL METALS (AS,BA,CD,CR,PB,HG,SE,AG)					
TOTAL ARSENIC	MG/L	0.204	0.20	102	80-120
TOTAL BARIUM	MG/L	0.207	0.20	103	80-120
TOTAL CADMIUM	MG/L	0.204	0.20	102	80-120
TOTAL CHROMIUM	MG/L	0.199	0.20	99	80-120
TOTAL LEAD	MG/L	0.201	0.20	100	80-120
TOTAL SELENIUM	MG/L	0.188	0.20	94	80-120
TOTAL SILVER	MG/L	0.0509	0.050	101	80-120

000014

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Calculated

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	CSA-1 A02-7068 A2706801	EQUIPMENT BLANK 0711 A02-7068 A2706802	RINSE BLANK 071102 A02-7068 A2706803		
Sample Date	07/11/2002 12:45	07/11/2002 10:45	07/11/2002 10:30		
Received Date	07/11/2002 14:22	07/11/2002 14:22	07/11/2002 14:22		
Extraction Date					
Analysis Date	07/16/2002 23:30	07/17/2002 00:03	07/17/2002 00:36		
Extraction HT Met?	-	-	-		
Analytical HT Met?	YES	YES	YES		
Sample Matrix	WATER	WATER	WATER		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	0.025 LITERS	0.025 LITERS	0.025 LITERS		
% Dry					

000015

NA = Not Applicable

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	TB 071102 A02-7068 A2706804				
Sample Date	07/11/2002				
Received Date	07/11/2002 14:22				
Extraction Date					
Analysis Date	07/16/2002 22:58				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.025 LITERS				
% Dry					

NA = Not Applicable

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	VBLK72 A02-7068 A2706805				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	07/16/2002 22:25				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.025 LITERS				
% Dry					

NA = Not Applicable

U R S GREINER, INC
GE TONAWANDA
SAMPLE CHRONOLOGY

Lab ID	Sample ID	Lab	Analyte	Method	DF	Sample wt/vol	g/L	Sample Date	Receive Date	TCLP Date	TH	Analysis Date	ANL INI	AH	Matrix
A2706802	EQUIPMENT BLANK 0711	RECNY	Arsenic - Total	6010	1.0	0.05	L	07/11/02 10:45	07/11 14:22	NA		07/16	EH	Y	WATER
		RECNY	Barium - Total	6010	1.0	0.05	L	07/11/02 10:45	07/11 14:22	NA		07/16	EH	Y	WATER
		RECNY	Cadmium - Total	6010	1.0	0.05	L	07/11/02 10:45	07/11 14:22	NA		07/16	EH	Y	WATER
		RECNY	Chromium - Total	6010	1.0	0.05	L	07/11/02 10:45	07/11 14:22	NA		07/16	EH	Y	WATER
		RECNY	Lead - Total	6010	1.0	0.05	L	07/11/02 10:45	07/11 14:22	NA		07/16	EH	Y	WATER
		RECNY	Mercury - Total	7470	1.0	0.03	L	07/11/02 10:45	07/11 14:22	NA		07/12	JMB	Y	WATER
		RECNY	Selenium - Total	6010	1.0	0.05	L	07/11/02 10:45	07/11 14:22	NA		07/16	EH	Y	WATER
		RECNY	Silver - Total	6010	1.0	0.05	L	07/11/02 10:45	07/11 14:22	NA		07/16	EH	Y	WATER
A2706801	CSA-1	RECNY	Arsenic - Total	6010	1.0	0.05	L	07/11/02 12:45	07/11 14:22	NA		07/16	EH	Y	WATER
		RECNY	Barium - Total	6010	1.0	0.05	L	07/11/02 12:45	07/11 14:22	NA		07/16	EH	Y	WATER
		RECNY	Cadmium - Total	6010	1.0	0.05	L	07/11/02 12:45	07/11 14:22	NA		07/16	EH	Y	WATER
		RECNY	Chromium - Total	6010	1.0	0.05	L	07/11/02 12:45	07/11 14:22	NA		07/16	EH	Y	WATER
		RECNY	Lead - Total	6010	1.0	0.05	L	07/11/02 12:45	07/11 14:22	NA		07/16	EH	Y	WATER
		RECNY	Mercury - Total	7470	1.0	0.03	L	07/11/02 12:45	07/11 14:22	NA		07/12	JMB	Y	WATER
		RECNY	Selenium - Total	6010	1.0	0.05	L	07/11/02 12:45	07/11 14:22	NA		07/16	EH	Y	WATER
		RECNY	Silver - Total	6010	1.0	0.05	L	07/11/02 12:45	07/11 14:22	NA		07/16	EH	Y	WATER
A2706803	RINSE BLANK 071102	RECNY	Arsenic - Total	6010	1.0	0.05	L	07/11/02 10:30	07/11 14:22	NA		07/16	EH	Y	WATER
		RECNY	Barium - Total	6010	1.0	0.05	L	07/11/02 10:30	07/11 14:22	NA		07/16	EH	Y	WATER
		RECNY	Cadmium - Total	6010	1.0	0.05	L	07/11/02 10:30	07/11 14:22	NA		07/16	EH	Y	WATER
		RECNY	Chromium - Total	6010	1.0	0.05	L	07/11/02 10:30	07/11 14:22	NA		07/16	EH	Y	WATER
		RECNY	Lead - Total	6010	1.0	0.05	L	07/11/02 10:30	07/11 14:22	NA		07/16	EH	Y	WATER
		RECNY	Mercury - Total	7470	1.0	0.03	L	07/11/02 10:30	07/11 14:22	NA		07/12	JMB	Y	WATER
		RECNY	Selenium - Total	6010	1.0	0.05	L	07/11/02 10:30	07/11 14:22	NA		07/16	EH	Y	WATER
		RECNY	Silver - Total	6010	1.0	0.05	L	07/11/02 10:30	07/11 14:22	NA		07/16	EH	Y	WATER

000018

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

Lab ID	Sample ID	Lab	Analyte	Method	DF	Sample wt/vol g/L	Sample Date	Receive Date	TCLP Date	TH	Analysis Date	ANL INI	AH	Matrix
A2B0644703	Method Blank	RECNY	Mercury - Total	7470	1.0	0.03 L	-	-	NA		07/12	JMB	Y	WATER
A2B0653703	Method Blank	RECNY	Arsenic - Total	6010	1.0	0.05 L	-	-	NA		07/16	EH	Y	WATER
		RECNY	Barium - Total	6010	1.0	0.05 L	-	-	NA		07/16	EH	Y	WATER
		RECNY	Cadmium - Total	6010	1.0	0.05 L	-	-	NA		07/16	EH	Y	WATER
		RECNY	Chromium - Total	6010	1.0	0.05 L	-	-	NA		07/16	EH	Y	WATER
		RECNY	Lead - Total	6010	1.0	0.05 L	-	-	NA		07/16	EH	Y	WATER
		RECNY	Selenium - Total	6010	1.0	0.05 L	-	-	NA		07/16	EH	Y	WATER
		RECNY	Silver - Total	6010	1.0	0.05 L	-	-	NA		07/16	EH	Y	WATER

000019

AH = Analysis Holding Time Met
TH = TCLP Holding Time Met
NA = Not Applicable

ANL INI = Analyst Initials
DF = Dilution Factor

Chain of Custody

Chain of Custody Record

Job 91-42368533.02

SEVERN TRENT SERVICES — Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: URS	Project Manager: Karen Peppin	Date: 7-11-02	Chain of Custody Number: 133029
Address: 282 Delaware Ave	Telephone Number (Area Code)/Fax Number: 716 856-5636	Lab Number:	Page ____ of ____
City: Buffalo / State: NY / Zip Code: 14202	Site Contact: Mark Colmerauer	Lab Contact:	
Project Name and Location (State): GE Tonawanda, NY	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: TCL VOA 8260	RCRA Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)	Special Instructions/ Conditions of Receipt
CSA-1	7-11-02	12:45		✓									3	1	SAMPLE
Equipment Blank 071102		1045		✓									3	1	EQUIP. BLANK
Rinse Blank 071102		1030		✓									3	1	RINSE BLANK
~~Trip Blank~~ TB 071102		12:45											1		TRIP BLANK

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other STANDARD

QC Requirements (Specify)

1. Relinquished By: Joseph A. Chung	Date: 7-11-02	Time: 1422	1. Received By: James Rickin	Date: 7/11/02	Time: 1422
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: No Temp Blank provided. 3-40mL VOA, 1-8oz poly for Equip, rinse + Sample

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

10°

000021

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#: A02-7838

STL Project#: NY2A8944
Site Name: URS, INC.
Task: GE Tonawanda

Mr. Mark Colmerauer
URS, Inc.
282 Delaware Ave
Buffalo, NY 14202-1805

CC: Ms. Karen Peppin

STL Buffalo

Amy Lynn Haag
Project Manager

08/14/2002

This report contains 23 pages which are individually numbered.

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A2783803	BKG B-1 (0-1')	08/01/2002	11:50	08/01/2002	15:50
A2783804	BKG B-2 (0-1')	08/01/2002	14:00	08/01/2002	15:50
A2783805	BKG B-3 (0-1')	08/01/2002	13:20	08/01/2002	15:50
A2783806	BKG B-4 (0-1')	08/01/2002	13:40	08/01/2002	15:50
A2783802	CORE B-1 (8-12")	08/01/2002	14:17	08/01/2002	15:50
A2783801	CORE B-2 (5-10")	08/01/2002	14:35	08/01/2002	15:50

SEVERN TRENT SERVICES

METHODS SUMMARY

Job#: A02-7838

STL Project#: NY2A8944
Site Name: URS, INC.

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Lead - Total	SW8463 6010
Mercury - Total	SW8463 7471
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010

References:

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

SEVERN TRENT SERVICES

NON-CONFORMANCE SUMMARY

Job#: A02-7838

STL Project#: NY2A8944
Site Name: URS, INC.

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

A02-7838
Sample Cooler(s) were received at the following temperature(s); 2 °C
All samples were received in good condition.

GC/MS Volatile Data

The analyte Methylene Chloride was detected in the Method Blanks VBLKS 57 and VBLK58 at a level below the project established reporting limit. The analyte Toluene was also detected in the Method Blank VBLK 58 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

****

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.

Sample Data Package

Date: 08/14/2002
Time: 15:03:16

URS, INC.
GE Tonawanda (soil)
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		CORE B-1 (8-12")		CORE B-2 (5-10")					
Job No / Lab ID		A02-7838	A2783802	A02-7838	A2783801				
Sample Date		08/01/2002		08/01/2002					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	24 J	30	45	30	NA		NA	
Benzene	UG/KG	ND	6.1	1.3 J	6.1	NA		NA	
Bromodichloromethane	UG/KG	ND	6.1	ND	6.1	NA		NA	
Bromoform	UG/KG	ND	6.1	ND	6.1	NA		NA	
Bromomethane	UG/KG	ND	12	ND	12	NA		NA	
2-Butanone	UG/KG	ND	30	ND	30	NA		NA	
Carbon Disulfide	UG/KG	ND	6.1	ND	6.1	NA		NA	
Carbon Tetrachloride	UG/KG	ND	6.1	ND	6.1	NA		NA	
Chlorobenzene	UG/KG	ND	6.1	ND	6.1	NA		NA	
Chloroethane	UG/KG	ND	12	16	12	NA		NA	
Chloroform	UG/KG	ND	6.1	ND	6.1	NA		NA	
Chloromethane	UG/KG	ND	12	ND	12	NA		NA	
Dibromochloromethane	UG/KG	ND	6.1	ND	6.1	NA		NA	
1,1-Dichloroethane	UG/KG	ND	6.1	ND	6.1	NA		NA	
1,2-Dichloroethane	UG/KG	ND	6.1	ND	6.1	NA		NA	
1,1-Dichloroethene	UG/KG	ND	6.1	12	6.1	NA		NA	
1,2-Dichloroethene (Total)	UG/KG	ND	12	ND	12	NA		NA	
1,2-Dichloropropane	UG/KG	ND	6.1	ND	6.1	NA		NA	
cis-1,3-Dichloropropene	UG/KG	ND	6.1	ND	6.1	NA		NA	
trans-1,3-Dichloropropene	UG/KG	ND	6.1	ND	6.1	NA		NA	
Ethylbenzene	UG/KG	ND	6.1	ND	6.1	NA		NA	
2-Hexanone	UG/KG	ND	12	ND	12	NA		NA	
Methylene chloride	UG/KG	6.8 B	6.1	8.5 B	6.1	NA		NA	
4-Methyl-2-pentanone	UG/KG	ND	30	ND	30	NA		NA	
Styrene	UG/KG	ND	6.1	ND	6.1	NA		NA	
1,1,2,2-Tetrachloroethane	UG/KG	ND	6.1	ND	6.1	NA		NA	
Tetrachloroethene	UG/KG	ND	6.1	ND	6.1	NA		NA	
Toluene	UG/KG	ND	6.1	ND	6.1	NA		NA	
1,1,1-Trichloroethane	UG/KG	ND	6.1	ND	6.1	NA		NA	
1,1,2-Trichloroethane	UG/KG	ND	6.1	ND	6.1	NA		NA	
Trichloroethene	UG/KG	ND	6.1	ND	6.1	NA		NA	
Vinyl acetate	UG/KG	ND	12	ND	12	NA		NA	
Vinyl chloride	UG/KG	ND	12	ND	12	NA		NA	
Total Xylenes	UG/KG	ND	18	ND	18	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	76	50-200	85	50-200	NA		NA	
1,4-Difluorobenzene	%	77	50-200	85	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	65	50-200	77	50-200	NA		NA	
Toluene-D8	%	96	78-118	99	78-118	NA		NA	
p-Bromofluorobenzene	%	78	67-118	86	67-118	NA		NA	
1,2-Dichloroethane-D4	%	96	63-133	92	63-133	NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 08/14/2002
Time: 15:03:51

URS, INC.
GE Tonawanda (soil)
TOTAL RCRA METALS

Rept: AN0326

Client ID		BKG B-1 (0-1')		BKG B-2 (0-1')		BKG B-3 (0-1')		BKG B-4 (0-1')	
Job No / Lab ID		A02-7838	A2783803	A02-7838	A2783804	A02-7838	A2783805	A02-7838	A2783806
Sample Date		08/01/2002		08/01/2002		08/01/2002		08/01/2002	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/KG	6.4	1.3	6.4	1.2	4.6	1.3	9.5	1.3
Barium - Total	MG/KG	97.3	1.3	118	1.2	127	1.3	93.5	1.3
Cadmium - Total	MG/KG	ND	0.64	ND	0.59	ND	0.65	ND	0.65
Chromium - Total	MG/KG	23.4	2.5	22.2	2.4	24.1	2.6	22.1	2.6
Lead - Total	MG/KG	50.9	6.4	22.0	5.9	36.4	6.5	53.7	6.5
Mercury - Total	MG/KG	0.089	0.025	0.067	0.024	0.091	0.026	0.11	0.026
Selenium - Total	MG/KG	ND	3.8	ND	3.6	ND	3.9	ND	3.9
Silver - Total	MG/KG	ND	1.3	ND	1.2	ND	1.3	ND	1.3

Client ID		CORE B-1 (8-12")		CORE B-2 (5-10")					
Job No / Lab ID		A02-7838	A2783802	A02-7838	A2783801				
Sample Date		08/01/2002		08/01/2002					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/KG	3.9	1.2	4.0	1.3	NA		NA	
Barium - Total	MG/KG	124	1.2	117	1.3	NA		NA	
Cadmium - Total	MG/KG	ND	0.60	ND	0.63	NA		NA	
Chromium - Total	MG/KG	24.8	2.4	19.8	2.5	NA		NA	
Lead - Total	MG/KG	23.8	6.0	13.3	6.3	NA		NA	
Mercury - Total	MG/KG	0.031	0.025	ND	0.025	NA		NA	
Selenium - Total	MG/KG	ND	3.6	ND	3.8	NA		NA	
Silver - Total	MG/KG	ND	1.2	ND	1.3	NA		NA	

200007

NA = Not Applicable ND = Not Detected

STL Buffalo

Chronology and QC Summary Package

Date: 08/14/2002
Time: 15:04:15

URS, INC.
GE Tonawanda (soil)
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		vblk 57		vblk 58					
Job No	Lab ID	A02-7838	A2783808	A02-7838	A2783810				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	25	ND	25	NA		NA	
Benzene	UG/KG	ND	5.0	ND	5.0	NA		NA	
Bromodichloromethane	UG/KG	ND	5.0	ND	5.0	NA		NA	
Bromoform	UG/KG	ND	5.0	ND	5.0	NA		NA	
Bromomethane	UG/KG	ND	10	ND	10	NA		NA	
2-Butanone	UG/KG	ND	25	ND	25	NA		NA	
Carbon Disulfide	UG/KG	ND	5.0	ND	5.0	NA		NA	
Carbon Tetrachloride	UG/KG	ND	5.0	ND	5.0	NA		NA	
Chlorobenzene	UG/KG	ND	5.0	ND	5.0	NA		NA	
Chloroethane	UG/KG	ND	10	ND	10	NA		NA	
Chloroform	UG/KG	ND	5.0	ND	5.0	NA		NA	
Chloromethane	UG/KG	ND	10	ND	10	NA		NA	
Dibromochloromethane	UG/KG	ND	5.0	ND	5.0	NA		NA	
1,1-Dichloroethane	UG/KG	ND	5.0	ND	5.0	NA		NA	
1,2-Dichloroethane	UG/KG	ND	5.0	ND	5.0	NA		NA	
1,1-Dichloroethene	UG/KG	ND	5.0	ND	5.0	NA		NA	
1,2-Dichloroethene (Total)	UG/KG	ND	10	ND	10	NA		NA	
1,2-Dichloropropane	UG/KG	ND	5.0	ND	5.0	NA		NA	
cis-1,3-Dichloropropene	UG/KG	ND	5.0	ND	5.0	NA		NA	
trans-1,3-Dichloropropene	UG/KG	ND	5.0	ND	5.0	NA		NA	
Ethylbenzene	UG/KG	ND	5.0	ND	5.0	NA		NA	
2-Hexanone	UG/KG	ND	10	ND	10	NA		NA	
Methylene chloride	UG/KG	2.7 J	5.0	2.6 J	5.0	NA		NA	
4-Methyl-2-pentanone	UG/KG	ND	25	ND	25	NA		NA	
Styrene	UG/KG	ND	5.0	ND	5.0	NA		NA	
1,1,2,2-Tetrachloroethane	UG/KG	ND	5.0	ND	5.0	NA		NA	
Tetrachloroethene	UG/KG	ND	5.0	ND	5.0	NA		NA	
Toluene	UG/KG	ND	5.0	1.0 J	5.0	NA		NA	
1,1,1-Trichloroethane	UG/KG	ND	5.0	ND	5.0	NA		NA	
1,1,2-Trichloroethane	UG/KG	ND	5.0	ND	5.0	NA		NA	
Trichloroethene	UG/KG	ND	5.0	ND	5.0	NA		NA	
Vinyl acetate	UG/KG	ND	10	ND	10	NA		NA	
Vinyl chloride	UG/KG	ND	10	ND	10	NA		NA	
Total Xylenes	UG/KG	ND	15	ND	15	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	85	50-200	93	50-200	NA		NA	
1,4-Difluorobenzene	%	87	50-200	94	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	76	50-200	85	50-200	NA		NA	
Toluene-D8	%	96	78-118	97	78-118	NA		NA	
p-Bromofluorobenzene	%	80	67-118	86	67-118	NA		NA	
1,2-Dichloroethane-D4	%	95	63-133	91	63-133	NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 08/14/2002
Time: 15:04:15

URS, INC.
GE Tonawanda (soil)
METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		MSB 57		MSB 58					
Job No	Lab ID	A02-7838	A2783809	A02-7838	A2783811				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	25	5.8 J	25	NA		NA	
Benzene	UG/KG	53	5.0	54	5.0	NA		NA	
Bromodichloromethane	UG/KG	ND	5.0	ND	5.0	NA		NA	
Bromoform	UG/KG	ND	5.0	ND	5.0	NA		NA	
Bromomethane	UG/KG	ND	10	ND	10	NA		NA	
2-Butanone	UG/KG	ND	25	ND	25	NA		NA	
Carbon Disulfide	UG/KG	ND	5.0	ND	5.0	NA		NA	
Carbon Tetrachloride	UG/KG	ND	5.0	ND	5.0	NA		NA	
Chlorobenzene	UG/KG	49	5.0	51	5.0	NA		NA	
Chloroethane	UG/KG	ND	10	ND	10	NA		NA	
Chloroform	UG/KG	ND	5.0	ND	5.0	NA		NA	
Chloromethane	UG/KG	ND	10	ND	10	NA		NA	
Dibromochloromethane	UG/KG	ND	5.0	ND	5.0	NA		NA	
1,1-Dichloroethane	UG/KG	ND	5.0	ND	5.0	NA		NA	
1,2-Dichloroethane	UG/KG	ND	5.0	ND	5.0	NA		NA	
1,1-Dichloroethene	UG/KG	63	5.0	62	5.0	NA		NA	
1,2-Dichloroethene (Total)	UG/KG	ND	10	ND	10	NA		NA	
1,2-Dichloropropane	UG/KG	ND	5.0	ND	5.0	NA		NA	
cis-1,3-Dichloropropene	UG/KG	ND	5.0	ND	5.0	NA		NA	
trans-1,3-Dichloropropene	UG/KG	ND	5.0	ND	5.0	NA		NA	
Ethylbenzene	UG/KG	ND	5.0	ND	5.0	NA		NA	
2-Hexanone	UG/KG	ND	10	ND	10	NA		NA	
Methylene chloride	UG/KG	2.9 BJ	5.0	2.9 BJ	5.0	NA		NA	
4-Methyl-2-pentanone	UG/KG	ND	25	ND	25	NA		NA	
Styrene	UG/KG	ND	5.0	ND	5.0	NA		NA	
1,1,2,2-Tetrachloroethane	UG/KG	ND	5.0	ND	5.0	NA		NA	
Tetrachloroethene	UG/KG	ND	5.0	ND	5.0	NA		NA	
Toluene	UG/KG	50	5.0	52 B	5.0	NA		NA	
1,1,1-Trichloroethane	UG/KG	ND	5.0	ND	5.0	NA		NA	
1,1,2-Trichloroethane	UG/KG	ND	5.0	ND	5.0	NA		NA	
Trichloroethene	UG/KG	53	5.0	53	5.0	NA		NA	
Vinyl acetate	UG/KG	ND	10	ND	10	NA		NA	
Vinyl chloride	UG/KG	ND	10	ND	10	NA		NA	
Total Xylenes	UG/KG	ND	15	ND	15	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	92	50-200	102	50-200	NA		NA	
1,4-Difluorobenzene	%	94	50-200	101	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	87	50-200	100	50-200	NA		NA	
Toluene-D8	%	92	78-118	92	78-118	NA		NA	
p-Bromofluorobenzene	%	79	67-118	85	67-118	NA		NA	
1,2-Dichloroethane-D4	%	93	63-133	95	63-133	NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

000010

Date: 08/14/2002
Time: 15:04:48

URS, INC.
GE Tonawanda (soil)
TOTAL RCRA METALS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Method Blank A02-7838	A2B0741002	Method Blank A02-7838	A2B0741802				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Barium - Total	MG/KG	NA		ND	1.0	NA		NA	
Cadmium - Total	MG/KG	NA		ND	0.50	NA		NA	
Chromium - Total	MG/KG	NA		ND	2.0	NA		NA	
Arsenic - Total	MG/KG	NA		ND	1.0	NA		NA	
Lead - Total	MG/KG	NA		ND	5.0	NA		NA	
Mercury - Total	MG/KG	ND	0.020	NA		NA		NA	
Selenium - Total	MG/KG	NA		ND	3.0	NA		NA	
Silver - Total	MG/KG	NA		ND	1.0	NA		NA	

000011

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 08/14/2002
Time: 15:04:48

URS, INC.
GE Tonawanda (soil)
TOTAL RCRA METALS

Rept: AN0326

Client ID Job No Lab ID Sample Date		LCS A02-7838 A2B0741001		LCS CLP Soils A02-7838 A2B0741801					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Selenium - Total	MG/KG	NA		61.8	2.9	NA		NA	
Barium - Total	MG/KG	NA		785	0.98	NA		NA	
Cadmium - Total	MG/KG	NA		49.9	0.49	NA		NA	
Chromium - Total	MG/KG	NA		134	2.0	NA		NA	
Arsenic - Total	MG/KG	NA		124	0.98	NA		NA	
Lead - Total	MG/KG	NA		55.4	4.9	NA		NA	
Mercury - Total	MG/KG	4.1	0.27	NA		NA		NA	
Silver - Total	MG/KG	NA		136	0.98	NA		NA	

000612

NA = Not Applicable ND = Not Detected

STL Buffalo

Client Sample ID: vblk 57 MSB 57
Lab Sample ID: A2783808 A2783809

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - TCL VOLATILE ORGANICS					
1,1-Dichloroethene	UG/KG	63.0	50.0	126	61-146
Trichloroethene	UG/KG	53.4	50.0	107	69-128
Benzene	UG/KG	53.3	50.0	107	71-128
Toluene	UG/KG	50.5	50.0	101	69-129
Chlorobenzene	UG/KG	48.6	50.0	97	72-126

000613

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: vblk 58 MSB 58
Lab Sample ID: A2783810 A2783811

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - TCL VOLATILE ORGANICS					
1,1-Dichloroethene	UG/KG	61.9	50.0	124	61-146
Trichloroethene	UG/KG	53.4	50.0	107	69-128
Benzene	UG/KG	54.1	50.0	108	71-128
Toluene	UG/KG	52.0	50.0	102	69-129
Chlorobenzene	UG/KG	50.8	50.0	102	72-126

000014

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A2B0741002 A2B0741001

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL RCRA METALS TOTAL MERCURY	MG/KG	4.11	4.5	91	80-120

000015

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS CLP Soils
Lab Sample ID: A2B0741802 A2B0741801

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL RCRA METALS					
TOTAL ARSENIC	MG/KG	124.0	132	93	80-120
TOTAL BARIUM	MG/KG	785.4	781	100	80-120
TOTAL CADMIUM	MG/KG	49.87	51.5	96	80-120
TOTAL CHROMIUM	MG/KG	133.5	142	94	80-120
TOTAL LEAD	MG/KG	55.35	52.9	104	80-120
TOTAL SELENIUM	MG/KG	61.79	60.9	101	80-120
TOTAL SILVER	MG/KG	135.5	125	108	80-120

000616

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	CORE B-1 (8-12") A02-7838 A2783802	CORE B-2 (5-10") A02-7838 A2783801			
Sample Date	08/01/2002 14:17	08/01/2002 14:35			
Received Date	08/01/2002 15:50	08/01/2002 15:50			
Extraction Date					
Analysis Date	08/05/2002 13:22	08/05/2002 13:05			
Extraction HT Met?	-	-			
Analytical HT Met?	YES	YES			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	5.04 GRAMS	5.06 GRAMS			
% Dry	81.44	81.08			

NA = Not Applicable

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	MSB 57 A02-7838 A2783809	MSB 58 A02-7838 A2783811			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	08/05/2002 10:41	08/05/2002 10:59			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	5.0 GRAMS	5.0 GRAMS			
% Dry	100.00	100.00			

000618

NA = Not Applicable

METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	vblk 57 A02-7838 A2783808	vblk 58 A02-7838 A2783810			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	08/05/2002 11:16	08/05/2002 11:34			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	5.0 GRAMS	5.0 GRAMS			
% Dry	100.00	100.00			

000019

NA = Not Applicable

Date: 08/14/2002 15:06:02
Jobno: A02-7838

U R S GREINER, INC
SAMPLE CHRONOLOGY

Rept: AN0369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A2783803	BKG B-1 (0-1')	MG/KG	Arsenic - Total	6010	1.00	08/01/2002 11:50	08/01 15:50	NA	NA	08/12 15:04	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	08/01/2002 11:50	08/01 15:50	NA	NA	08/12 15:04	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	08/01/2002 11:50	08/01 15:50	NA	NA	08/12 15:04	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	08/01/2002 11:50	08/01 15:50	NA	NA	08/12 15:04	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	08/01/2002 11:50	08/01 15:50	NA	NA	08/12 15:04	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	08/01/2002 11:50	08/01 15:50	NA	NA	08/05 11:38	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	08/01/2002 11:50	08/01 15:50	NA	NA	08/12 15:04	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	08/01/2002 11:50	08/01 15:50	NA	NA	08/12 15:04	Yes	SOIL
A2783804	BKG B-2 (0-1')	MG/KG	Arsenic - Total	6010	1.00	08/01/2002 14:00	08/01 15:50	NA	NA	08/12 15:08	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	08/01/2002 14:00	08/01 15:50	NA	NA	08/12 15:08	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	08/01/2002 14:00	08/01 15:50	NA	NA	08/12 15:08	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	08/01/2002 14:00	08/01 15:50	NA	NA	08/12 15:08	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	08/01/2002 14:00	08/01 15:50	NA	NA	08/12 15:08	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	08/01/2002 14:00	08/01 15:50	NA	NA	08/05 11:40	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	08/01/2002 14:00	08/01 15:50	NA	NA	08/12 15:08	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	08/01/2002 14:00	08/01 15:50	NA	NA	08/12 15:08	Yes	SOIL
A2783805	BKG B-3 (0-1')	MG/KG	Arsenic - Total	6010	1.00	08/01/2002 13:20	08/01 15:50	NA	NA	08/12 15:13	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	08/01/2002 13:20	08/01 15:50	NA	NA	08/12 15:13	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	08/01/2002 13:20	08/01 15:50	NA	NA	08/12 15:13	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	08/01/2002 13:20	08/01 15:50	NA	NA	08/12 15:13	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	08/01/2002 13:20	08/01 15:50	NA	NA	08/12 15:13	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	08/01/2002 13:20	08/01 15:50	NA	NA	08/05 11:41	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	08/01/2002 13:20	08/01 15:50	NA	NA	08/12 15:13	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	08/01/2002 13:20	08/01 15:50	NA	NA	08/12 15:13	Yes	SOIL
A2783806	BKG B-4 (0-1')	MG/KG	Arsenic - Total	6010	1.00	08/01/2002 13:40	08/01 15:50	NA	NA	08/12 15:17	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	08/01/2002 13:40	08/01 15:50	NA	NA	08/12 15:17	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	08/01/2002 13:40	08/01 15:50	NA	NA	08/12 15:17	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	08/01/2002 13:40	08/01 15:50	NA	NA	08/12 15:17	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	08/01/2002 13:40	08/01 15:50	NA	NA	08/12 15:17	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	08/01/2002 13:40	08/01 15:50	NA	NA	08/05 11:43	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	08/01/2002 13:40	08/01 15:50	NA	NA	08/12 15:17	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	08/01/2002 13:40	08/01 15:50	NA	NA	08/12 15:17	Yes	SOIL
A2783802	CORE B-1 (8-12")	MG/KG	Arsenic - Total	6010	1.00	08/01/2002 14:17	08/01 15:50	NA	NA	08/12 15:00	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	08/01/2002 14:17	08/01 15:50	NA	NA	08/12 15:00	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	08/01/2002 14:17	08/01 15:50	NA	NA	08/12 15:00	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	08/01/2002 14:17	08/01 15:50	NA	NA	08/12 15:00	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	08/01/2002 14:17	08/01 15:50	NA	NA	08/12 15:00	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	08/01/2002 14:17	08/01 15:50	NA	NA	08/05 11:37	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	08/01/2002 14:17	08/01 15:50	NA	NA	08/12 15:00	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	08/01/2002 14:17	08/01 15:50	NA	NA	08/12 15:00	Yes	SOIL
A2783801	CORE B-2 (5-10")	MG/KG	Arsenic - Total	6010	1.00	08/01/2002 14:35	08/01 15:50	NA	NA	08/12 14:55	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	08/01/2002 14:35	08/01 15:50	NA	NA	08/12 14:55	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	08/01/2002 14:35	08/01 15:50	NA	NA	08/12 14:55	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	08/01/2002 14:35	08/01 15:50	NA	NA	08/12 14:55	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	08/01/2002 14:35	08/01 15:50	NA	NA	08/12 14:55	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	08/01/2002 14:35	08/01 15:50	NA	NA	08/05 11:36	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	08/01/2002 14:35	08/01 15:50	NA	NA	08/12 14:55	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	08/01/2002 14:35	08/01 15:50	NA	NA	08/12 14:55	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

STL Buffalo

Date: 08/14/2002 15:06:02
Jobno: A02-7838

U R S GREINER, INC
QC CHRONOLOGY

Rept: AN0369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A2B0741002	Method Blank	MG/KG	Mercury - Total	7471	1.00	-	- 15:50	NA	NA	08/05 11:55	Yes	SOIL
A2B0741802	Method Blank	MG/KG	Arsenic - Total	6010	1.00	-	- 15:50	NA	NA	08/12 14:02	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	-	- 15:50	NA	NA	08/12 14:02	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	-	- 15:50	NA	NA	08/12 14:02	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	-	- 15:50	NA	NA	08/12 14:02	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	-	- 15:50	NA	NA	08/12 14:02	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	-	- 15:50	NA	NA	08/12 14:02	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	-	- 15:50	NA	NA	08/12 14:02	Yes	SOIL
A2B0741001	LCS	MG/KG	Mercury - Total	7471	1.00	-	- 15:50	NA	NA	08/05 11:54	Yes	SOIL
A2B0741801	LCS CLP Soils	MG/KG	Arsenic - Total	6010	1.00	-	- 15:50	NA	NA	08/12 14:06	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	-	- 15:50	NA	NA	08/12 14:06	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	-	- 15:50	NA	NA	08/12 14:06	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	-	- 15:50	NA	NA	08/12 14:06	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	-	- 15:50	NA	NA	08/12 14:06	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	-	- 15:50	NA	NA	08/12 14:06	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	-	- 15:50	NA	NA	08/12 14:06	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody

Chain of Custody Record

91-42 368533.02

SEVERN TRENT SERVICES — Severn Trent Laboratories, Inc.

STL-4124 (1200)

Client: URS	Project Manager: Karen Peppin	Date: 8/1/02	Chain of Custody Number: 100658
Address: 282 Delaware Ave	Telephone Number (Area Code)/Fax Number: 716 856-5636	Lab Number:	Page 1 of 1
City: Buffalo / State: NY / Zip Code: 14202	Site Contact: Mark Colmerauer	Lab Contact:	
Project Name and Location (State): GE Tonawanda, NY	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: RCRA Metals	TCL VOA	Special Instructions/ Conditions of Receipt
CORE B-2 (5-10")	8/1/02	14:35				X							1	1	
CORE B-1 (8-12")		14:17				X							1	1	
BKG B-1 (0-1')		11:50				X							1		
BKG B-2 ~~(0-12")~~ (0-1')		14:00				X							1		
BKG B-3 (0-1')		13:20				X							1		
BKG B-4 (0-1')		13:40				X							1		
TRIP BLANK															

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other Standard

QC Requirements (Specify):

1. Relinquished By: Jennifer A Chmura	Date: 8/1/02	Time: 1550	1. Received By: STL	Date: 8/1/02	Time: 1550
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: No temp blank — 2°

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

000023