ENCYCLE/TEXAS, INC.
CORPUS CHRISTI, TEXAS

FINAL CLOSURE CERTIFICATION REPORT - RECEIVING BUILDING (BUILDING B) AND FACILITY NO. 1 AND FACILITY NO. 3 PERMITTED CONTAINER STORAGE AREAS

November 11, 2004

ARCADIS

Infrastructure, buildings, environment, communications

ARCADIS

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FINAL CLOSURE CERTIFICATION REPORT – RECEIVING BUILDING (BUILDING B) AND FACILITY NO. 1 AND FACILITY NO. 3 PERMITTED CONTAINER STORAGE AREAS

Encycle/Texas, Inc.
Corpus Christi, Texas

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Our Ref.:
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Date:
November 11, 2004

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1.0 Introduction

ARCADIS G&M, Inc. (ARCADIS) was retained by Encycle/Texas, Inc. (Encycle) to supervise closure of three permitted container storage areas (Receiving Building, Facility No. 1 permitted container storage area, Facility No. 3 permitted container storage area) located at the Encycle Facility in Corpus Christi, Texas. The Receiving Building (also referred to as Building B), the Facility No. 1 permitted container storage area, and the Facility No. 3 permitted container storage area, were Authorized Units (Permit No. HW-50221-001) for storage of hazardous and non-hazardous industrial solid wastes in containers.

In accordance with the Stipulation and Order Modifying Consent Decree between the United States and the State of Texas vs. Encycle/Texas Inc. and ASARCO Incorporated, that was entered into the U.S. District Court for the Southern District of Texas on August 13, 2004, Encycle agreed to complete RCRA final closure of the facility's hazardous and solid waste management units no later than January 1, 2005. This report presents final closure activities associated with the Receiving Building (Building B), the Facility No. 1 permitted container storage area, and the Facility No. 3 permitted container storage area. Closure activities for other hazardous and solid waste management units at the facility were previously completed during 2004 and were addressed in other reports submitted to the Texas Commission on Environmental Quality (TCEQ).

The closure activities for the Receiving Building, the Facility No. 1 permitted container storage area, and the Facility No. 3 permitted container storage area were conducted in accordance with the November 1999 Closure Plan (Closure Plan) entitled "Final Facility Closure and Post-Closure Plan for Permitted, Interim-Authorized, and Planned Permitted Units" as revised on February 4, 2000; the Facility Permit No. HW-50221-001 issued by the TCEQ on September 27, 2002; and the August 13, 2004 Stipulation and Order Modifying Consent Decree. As detailed below, the Receiving Building, the Facility No. 1 permitted container storage area, and the Facility No. 3 permitted container storage area were decontaminated between January and October 2004. Decontamination continued until verification rinse water sampling and concrete sampling showed that no hazardous wastes remained, and the decontamination standards had been met.

All wastes have been removed from the Receiving Building, the Facility No. 1 permitted container storage area, and the Facility No. 3 permitted container storage area, and verification rinse water sample analytical data and concrete sample analytical

data demonstrate that the units have been decontaminated as specified in the Closure Plan. Therefore, no post-closure care is needed for the Receiving Building, the Facility No. 1 permitted container storage area, or the Facility No. 3 permitted container storage area.

2.0 Facility Location and Description

The Encycle facility is approximately 108 acres in size and is located at 5500 Up River Road in Corpus Christi, Texas. The facility was originally developed by American Smelting and Refining Company (now ASARCO, Inc.) in 1941 to process mineral ores for the production of high grade zinc. The facility was shut down during 1985, and the site was inactive from 1986 until 1988. The facility was operated by Encycle from 1988 through 2002 as a commercial waste management facility treating primarily inorganic hazardous and non-hazardous materials for the purpose of recycle, reclaimation, and reduction in volume using a hydro-metallurgical process. Facility operations ceased in 2003, and final facility closure activities are currently in progress.

The facility's TCEQ Industrial Solid Waste Registration Number and U.S. Environmental Protection Agency (EPA) Identification Number are 30003 and TXD008117186, respectively. The facility's Industrial Solid Waste Management Permit Number is HW50221-001.

3.0 Receiving Building, Facility No. 1 Permitted Container Storage Area, and Facility No. 3 Permitted Container Storage Area Description

The Receiving Building is located in the central portion of the Encycle facility as shown on Figure 1. As shown on Table 1, the container storage capacity of the Receiving Building is 242,352 gallons. The Receiving Building has reinforced concrete floors, walls, curbs, sumps, and ramps to contain any spills (see Figure 2 and Appendix A, photographs 1 and 2). Also, the floor of the Receiving Building is coated with red, chemical-resistant paint.

The Facility No. 1 building is located in the east-central portion of the Encycle facility as shown on Figure 1, and the permitted container storage area is located in the northwest portion of the building as shown on Figure 3. As shown on Table 1, capacity of the Facility No. 1 permitted container storage area is 13,750 gallons. The Facility No. 1 permitted container storage area has a reinforced concrete floor with red,

chemical-resistant paint, and perimeter concrete curbing and a concrete sump to contain any spills (Appendix A, photograph 3).

The Facility No. 3 building is located in the west-central portion of the Encycle facility as shown on Figure 1, and the permitted container storage area is located in the northwest portion of the building as shown on Figure 4. As shown on Table 1, capacity of the Facility No. 3 permitted container storage area is 13,750 gallons. The Facility No. 3 permitted container storage area has a reinforced concrete floor with red, chemical-resistant paint, and concrete curbing, floor drains, and a concrete sump to contain any spills (see Appendix A, photograph 4).

4.0 Closure Activities

4.1 General

Closure activities for the Receiving Building, the Facility No. 1 permitted container storage area, and the Facility No. 3 permitted container storage area were conducted as specified in the Closure Plan. The closure activities included (1) waste removal, (2) unit decontamination, (3) verification rinsate sampling, (4) decontamination of cleanup equipment, (5) soil evaluation, and (6) groundwater evaluation.

The closure activities are discussed in the following subsections.

4.2 Waste Removal

The Receiving Building had contained waste materials (thickener solids, North and South Demin Tank solids, compactor debris) in containers and/or roll-off boxes. Therefore, prior to Receiving Building decontamination activities, these waste materials were removed and disposed of at the US Ecology Idaho landfill in Grand View, Idaho. Copies of the waste manifests are provided in Appendix G.

The contents of the Facility No. 3 permitted container storage area were transported offsite for recycling or disposal prior to initiation of final facility closure activities. The Facility No. 3 permitted container storage area was empty at the time of closure except for an empty white polyethylene tank mounted on a trailer at the southwest corner of the permitted container storage area (see Appendix A, photograph 4).

The Facility No. 1 permitted container storage area contained four electrical transformers at the initiation of closure activities. One of the transformers had leaked a

small volume (less than 1 pound) of PCB oil onto the non-porous red epoxy floor coating below the transformer. The floor in the leak area was cleaned using soap/water, a degreaser, and adsorbent pads. The cleaning materials were then placed into a labeled 55-gallon drum (PCB Debris Drum No. 100). Following cleaning of the floor, a PCB wipe sample (Sample ID: PCB Wipe Facility 1) was collected from the floor at the leak location by ARCADIS on July 15, 2004. The wipe sample was analyzed for PCBs using EPA Method 8082. As shown in Appendix B, no PCBs were detected in the wipe sample, indicating the spill surface had been adequately cleaned in accordance with 40 Code of Federal Regulations (CFR) Part 761.79(b).

The transformers and PCB Debris Drum No. 100 were taken offsite and disposed of at the US Ecology landfill in Beatty, Nevada, on July 29, 2004. The PCB oils were repackaged at the US Ecology landfill in Beatty, Nevada, and transported to Onyx Environmental Services in Port Arthur, Texas, for incineration during August 2004. Copies of the manifests for the transformers, PCB oil, and PCB debris drum are provided in Appendix C.

4.3 Unit Decontamination

Receiving Building, Facility No. 1 permitted container storage area, and Facility No. 3 permitted container storage area final closure activities were conducted between January and October 2004. As specified in the Closure Plan, each unit was decontaminated to the appropriate risk-based standard at the time of closure. The current TCEQ risk-based standards are the Texas Risk Reduction Program (TRRP) protective concentration levels (PCLs) given in 30 Texas Administrative Code (TAC) Chapter 350.

Unit decontamination activities were conducted by qualified Encycle personnel and contractors under the supervision of an independent Texas-Registered Professional Engineer (Kenneth Brandner of ARCADIS G&M, Inc.). As specified in the Closure Plan, the concrete floors, walls, ramps, floor drains, sumps, and curbs in each unit were inspected by the Professional Engineer for breeches and failures in the secondary containment system. The secondary containment systems in each unit appeared in good condition with no cracks or gaps. Therefore, no soil samples were collected below the floors of these units because no breeches or failures were present.

Decontamination activities initially involved cleaning of the building floors, walls, ramps, curbs, floor drains, and sumps using fresh water washing and hydroblasting to remove any waste residuals. The washwater and waste residuals were removed from

each unit using a vacuum truck, and routed to the Encycle wastewater treatment system.

Decontamination continued until all visible evidence of waste residuals had been removed. Each unit was then triple-rinsed by pressure washing, and the rinse water was collected using a vacuum truck and routed to the Encycle wastewater treatment system. Following triple-rinsing, a rinsate sample was collected from each unit as described below in Section 4.4.

4.4 Verification Rinsate Sampling

4.4.1 Verification Rinse Water Sample Collection Procedures

As specified in the Closure Plan, following decontamination, a low volume rinsate sample was collected from the floor of each unit. Rinse water was poured onto the floor of each unit, and rinsate samples were collected by directly filling laboratory-provided sample bottles at sumps, where present. In areas where sumps were not present, the rinsate samples were collected by pouring rinse water onto the floor, and collecting the rinsate samples at the low point of the floor using new polyethylene bailers. The rinse water was transferred from the bailers directly into laboratory-provided sample containers. Each rinsate sample was analyzed for all constituents of concern (COCs) previously managed at the Encycle facility. The list of COCs, previously provided to the TCEQ in the approved RCRA Facility Investigation Work Plan dated January 31, 2000, is provided in Appendix D. Samples for total metals analyses were placed into 16-ounce polyethylene bottles with nitric acid preservative. Samples for cyanide analysis were placed into 1-liter polyethylene bottles with sodium hydroxide (NaOH) preservative. The sample bottles were securely capped, labeled, placed into a cooler with ice, and submitted to an independent analytical laboratory.

The verification rinse water samples were analyzed within EPA-specified holding times using the analytical protocols specified in the EPA document entitled "Test Methods for Evaluating Solid Waste (EPA SW-846)."

4.4.2 Verification Rinse Water Sample Analytical Results

4.4.2.1 Receiving Building

Verification rinse water sample analytical results for the Receiving Building are summarized on Table 2, and copies of the analytical laboratory reports are provided in

Appendix E. As shown on Table 2, the concentration of lead in the initially collected verification rinse water sample from the Receiving Building center floor on October 6, 2004 (Sample ID: Rec Bldg Center) exceeded the decontamination standard (TRRP Tier 1 Groundwater PCL) of 0.015 milligrams per liter (mg/L) for lead. Therefore, as specified in the Closure Plan, decontamination of the center floor continued. The center floor was further decontaminated using pressure washing and water rinsing, and the cleaning water was collected using a vacuum truck and routed to the Encycle wastewater treatment system.

Following the additional decontamination activities, a verification rinse water sample was collected from the Receiving Building center floor on October 14, 2004 for lead analysis. As shown on Table 2, lead was not detected (<0.01 mg/L) in the October 14, 2004 rinsate sample. Therefore, verification rinse water sample analytical data demonstrate that the Receiving building has been decontaminated as specified in the Closure Plan.

4.4.2.2 Facility No. 1 Permitted Container Storage Area

Verification rinse water sample analytical results for the Facility No. 1 permitted container storage area are summarized on Table 2, and copies of the analytical laboratory reports are provided in Appendix E. As shown on Table 2, the concentrations of all COCs in the initially collected verification rinse water sample from the Facility No. 1 permitted container storage area floor met the decontamination standards (TRRP Tier 1 Groundwater PCLs). Therefore, verification rinse water sample analytical data demonstrate that the Facility No. 1 permitted container storage area has been decontaminated as specified in the Closure Plan.

4.4.2.3 Facility No. 3 Permitted Container Storage Area

Verification rinse water sample analytical results for the Facility No. 3 permitted container storage area are summarized on Table 2, and copies of the analytical laboratory reports are provided in Appendix E. As shown on Table 2, the concentrations of cadmium, lead, and thallium in the initially collected verification rinse water sample on January 20, 2004 exceeded the decontamination standards. Therefore, as specified in the Closure Plan, decontamination of the floor continued. The floor was further decontaminated using pressure washing and water rinsing, and the cleaning water was collected using a vacuum truck and routed to the Encycle wastewater treatment system.

Following the additional decontamination activities, a verification rinse water sample was collected from the Facility No. 3 permitted container storage area floor on February 3, 2004 for cadmium, lead, and thallium analyses. As shown on Table 2, the thallium concentration in the rinsate sample (0.0013 mg/L) did not exceed the decontamination standard for thallium (0.002 mg/L). However, the concentrations of cadmium and lead in the February 3, 2004 rinsate sample exceeded the decontamination standards of 0.005 mg/L and 0.015 mg/L, respectively. Therefore, cleaning of the Facility No. 3 permitted container storage area floor continued using the cleaning procedures described above, followed by collection of additional rinsate samples.

As shown on Table 2, the cadmium concentration in the March 8, 2004 rinsate sample from the Facility No. 3 permitted container storage area floor was non-detectable (<0.005 mg/L). However, the lead concentration in the rinsate samples continued to exceed the decontamination standard of 0.015 mg/L lead even though the floor was visually clean and free of waste residuals.

As shown in Appendix A, photograph 4, the Facility No. 3 permitted container storage area concrete floor is coated with red chemical-resistant paint. A paint chip sample was collected from the Facility No. 3 permitted container storage area floor for lead analysis, and lead was detected in the paint. Therefore, as discussed during an April 5, 2004 telephone conversation with David Murry of the TCEQ, due to the presence of lead-based paint on the Facility No. 3 permitted container storage area floor, it was determined that analysis of a concrete sample for lead rather than a rinsate sample would be utilized to determine if the floor was adequately decontaminated. The concrete sample was collected from the approximate mid-point of the Facility No. 3 permitted container storage area floor on August 31, 2004 using a 2-inch-diameter, diamond-tipped concrete core barrel. The concrete sample was removed from the core barrel and placed into an 8-ounce widemouthed glass jar with a Teflon-lined lid. The sample container was securely capped, labeled, placed into a cooler with ice, and submitted to the analytical laboratory for total lead analysis using EPA Method 6010.

The Facility No. 3 concrete sample analytical result is summarized on Table 3, and a copy of the analytical laboratory report is provided in Appendix F. As shown on Table 3, lead was not detected in the concrete sample (<1.5 milligrams per kilogram (mg/kg)). The lead detection limit was below the site-specific background value for lead in soil, and also below the Texas-specific median background concentration for lead in soil (15 mg/kg) given in 30 TAC Chapter 350.51 (see Table 3). Therefore, the Facility No. 3 concrete sample analytical data indicates the Facility No. 3 concrete is

not affected with lead above background levels. Therefore, verification rinse water sample analytical data and the concrete floor sample analytical data demonstrate that the Facility No. 3 permitted container storage area has been decontaminated.

4.5 Decontamination of Cleanup Equipment

Following completion of Receiving Building, Facility No. 1 permitted container storage area, and Facility No. 3 permitted container storage area decontamination activities, the cleanup equipment (vacuum truck, steam-cleaner, pressure washer, vacuum truck hoses, pressure washing and steam-cleaning hoses, scrapers) and safety equipment (personnel boots) were washed, and the wash water was routed to the Encycle wastewater treatment system. Disposable safety and cleanup equipment (gloves, rags, plastic sheeting, etc.) generated prior to May 2004 was placed into a roll-off box and disposed of at the US Ecology landfill in Robstown, Texas, on April 29, 2004. Disposable safety and cleanup equipment generated after May 2004 was placed into a rail car and disposed of at the US Ecology landfill in Grand View, Idaho during October 2004. Manifests for the disposable safety and cleanup equipment, referred to on the manifest as "compactor debris", are provided in Appendix G.

4.6 Soil Evaluation

As discussed above in Section 4.3, the concrete floors, walls, ramps, floor drains, sumps, and curbs in the Receiving Building, Facility No. 1 permitted container storage area, and the Facility No. 3 permitted container storage area were inspected by the Professional Engineer for breeches and failures in the secondary containment systems. The secondary containment systems appeared in good condition with no cracks or gaps. Therefore, no soil samples were collected below the floors of these units because no breeches or failures were present.

Although no breeches or failures of the secondary containment systems were present in the Facility No. 1 or Facility No. 3 permitted container storage areas, cracks were present in portions of the Facility No. 1 and Facility No. 3 floors outside of the permitted container storage areas. Soil samples were collected below these cracks as part of the final facility closure activities for the non-permitted units. Additional details regarding the soil sample analytical data from the non-permitted units were provided in reports submitted to the TCEQ entitled "Final Closure Certification Report – Facility No. 3 Non-Permitted Units" dated April 20, 2004, and "Final Closure Certification Report – Facility No. 1 Non-Permitted Units" dated September 23, 2004.

4.7 Groundwater Evaluation

Based on previous investigations conducted at the site as part of the RCRA Facility Investigation, groundwater occurs at a depth ranging from approximately 16 to 20 feet in the area of Facility No. 1, Facility No. 3, and the Receiving Building. As shown on Figure 5, groundwater flow at the site is in a generally northerly direction, and several monitor wells are located in the areas of Facility No. 1, Facility No. 3, and the Receiving Building, including monitor wells MW-13, MW-15, MW-17, MW-18, MW-19 and MW-20. Copies of the monitor well completion diagrams are provided in Appendix H.

As part of the RCRA Facility Investigation, groundwater samples were collected from monitor wells MW-13, MW-15, MW-17, MW-18, MW-19 and MW-20 on a monthly frequency between December 2001 and February 2002. Groundwater analytical data is summarized on Table 4. As shown on Table 4, constituent concentrations in groundwater samples collected from monitor wells MW-17, MW-19 and MW-20 did not exceed background concentrations. Low concentrations of cyanide, selenium and copper were detected in several of the groundwater samples from monitor wells MW-13, MW-15 and MW-18 that exceeded background levels. However, the cyanide, selenium, and copper concentrations did not exceed the TRRP Tier 1 groundwater PCLs for Class 3 groundwater. Also, Encycle intends to deed record the site for commercial/industrial land use, and prohibit the future installation of any water wells at the site as part of the upcoming Corrective Measures Study (CMS). Additional details regarding the groundwater quality data at the site is provided in the report entitled "RCRA Facility Investigation Report" that was submitted to the TCEQ on August 14, 2002.

5.0 Summary and Conclusions

Closure of the Receiving Building, the Facility No. 1 permitted container storage area, and the Facility No. 3 permitted container storage area has been conducted in accordance with the November 1999 Closure Plan entitled "Final Facility Closure and Post-Closure Plan for Permitted, Interim-Authorized, and Planned Permitted Units" as revised on February 4, 2000; the Facility Permit No. HW-50221-001 issued by the TCEQ on September 27, 2002; and the August 13, 2004 Stipulation and Order Modifying Consent Decree. All wastes have been removed from the Receiving Building, the Facility No. 1 permitted container storage area, and the Facility No. 3 permitted container storage area. Verification rinse water sample analytical data and concrete sample analytical data demonstrate that the units have been decontaminated as

specified in the Closure Plan. Therefore, no post-closure care is needed for the Receiving Building, the Facility No. 1 permitted container storage area, or the Facility No. 3 permitted container storage area.

Several constituents (cyanide, selenium, copper) were detected above background levels in some of the groundwater samples from monitor wells in the areas of Facility No. 1, Facility No. 3, and the Receiving Building. However, the cyanide, selenium, and copper concentrations in the samples did not exceed the TRRP Tier 1 groundwater PCLs for Class 3 groundwater. A facility-wide baseline risk assessment (BLRA) was submitted to the TCEQ on April 14, 2004 as part of the RCRA corrective action activities specified in the October 1999 Consent Decree, and a BLRA Addendum was submitted to the TCEQ on August 27, 2004. Following TCEQ approval of the BLRA, Encycle will conduct a CMS. Encycle also intends to deed record the property for commercial/industrial land use, and prohibit the future installation of any water wells at the property, eliminating the groundwater ingestion exposure pathway.

6.0 Certification of Closure

CLOSURE CERTIFICATION
RECEIVING BUILDING (BUILDING B), FACILITY NO. 1 AND FACILITY NO. 3 PERMITTED CONTAINER STORAGE AREAS
ENCYCLE/TEXAS, INC.
5500 UP RIVER ROAD
CORPUS CHRISTI, TEXAS

Professional Engineer's Certification

I, Kenneth J. Brandner, do hereby certify that the closure of the Receiving Building (Building B), and the Facility No. 1 and Facility No. 3 permitted container storage areas at the Encycle/Texas, Inc. facility have been completed as specified in the November 1999 Closure Plan entitled "Final Facility Closure and Post-Closure Plan for Permitted, Interim-Authorized, and Planned Permitted Units" as revised on February 4, 2000; the Facility Permit No. HW-50221-001 issued by the TCEQ on September 27, 2002; and the August 13, 2004 Stipulation and Order Modifying Consent Decree. I have personally examined the Receiving Building (Building B), and the Facility No. 1 and Facility No. 3 permitted container storage areas. I am familiar with the information submitted in this document and all attachments, which have been prepared in compliance with good engineering practices. The information provided in this document is true, accurate, and complete to the best of my knowledge.

(Seal)

STATE OF TEXAS
KENNETH J. BRANDNER
69586
REGISTERED
PROFESSIONAL ENGINEER

Signature: Kenneth J. Brandner
Kenneth J. Brandner, P.E.

Registration No.: 69586

Date: 11/11/04

CLOSURE CERTIFICATION
RECEIVING BUILDING (BUILDING B), FACILITY NO. 1 AND FACILITY NO. 3 PERMITTED CONTAINER STORAGE AREAS
ENCYCLE/TEXAS, INC.
5500 UP RIVER ROAD
CORPUS CHRISTI, TEXAS

Owner's Certification

I, RICHARD MARCUS, PLANT MANAGER
(Name) (Title)

Certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of civil penalty and criminal fine.

Signature: Richard Marcus Date: 11/10/04

TABLES

Table 1. Receiving Building, Facility No. 1, and Facility No. 3 Permitted Container Storage Area Descriptions, Encycle/Texas, Inc., Corpus Christi, Texas

Encycle Unit Name	NOR Unit Sequence Number	Unit Capacity (gallons)	Material of Construction
Building B (Receiving Building) Container Storage Area	018 & 040	242,352	Concrete floor with perimeter concrete curbing and ramps.
Facility 1 Permitted Container Storage Area	015	13,750	Concrete floor with perimeter concrete curbing.
Facility 3 Permitted Container Storage Area	016	13,750	Concrete floor with perimeter concrete curbing and concrete floor drain/sump on east end of unit.

NOR Notice of Registration for SWR No. 30003.

Table 2. Rinse Water Analytical Results Summary - Receiving Building, Facility No. 1, and Facility No. 3 Permitted Container Storage Area Concrete Floors (mg/L), Encycle/Texas, Inc., Corpus Christi, Texas

SAMPLE ID	Date Sampled	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	CN	Lead	Mn	Mercury	Nickel	Se	Silver	Thallium	Tin	Van	Zinc
FACILITY No. 1																				
Facility No. 1 Permitted Floor	8/19/04	<0.001	<0.01	0.11	<0.2	0.0013	<0.01	<0.01	0.01	<0.02	<0.015	0.07	<0.002	<0.01	<0.01	<0.005	<0.001	<0.02	<0.01	0.04
FACILITY No. 3																				
Fac 3 Permitted Floor	1/20/04	0.0032	<0.01	0.10	<0.2	**0.0833**	<0.01	<0.01	0.04	<0.02	**0.09**	0.01	<0.002	0.09	<0.01	<0.005	**0.0026**	<0.02	<0.01	0.17
(duplicate)	1/20/04	0.0021	<0.01	0.11	<0.2	**0.057**	<0.01	<0.01	0.05	<0.02	**0.13**	0.01	<0.002	0.11	<0.01	<0.005	0.0016	<0.02	<0.01	0.21
	2/3/04	---	---	---	---	**0.0443**	---	---	---	---	**0.08**	---	---	---	---	---	0.0013	---	---	---
	2/12/04	---	---	---	---	**0.043**	---	---	---	---	**0.07**	---	---	---	---	---	---	---	---	---
	2/26/04	---	---	---	---	**0.018**	---	---	---	---	**0.08**	---	---	---	---	---	---	---	---	---
	3/8/04	---	---	---	---	<0.005	---	---	---	---	**0.05**	---	---	---	---	---	---	---	---	---
	3/25/04	---	---	---	---	---	---	---	---	---	**0.034**[d]	---	---	---	---	---	---	---	---	---
RECEIVING BUILDING																				
Rec Bldg W Sump	10/6/04	<0.001	<0.01	<0.01	<0.2	0.0016	<0.01	<0.01	0.02	---	<0.015	<0.01	<0.002	0.02	<0.01	<0.005	<0.001	<0.02	<0.01	0.12
	10/7/04	---	---	---	---	---	---	---	---	<0.01	---	---	---	---	---	---	---	---	---	---
Rec Bldg Center	10/6/04	<0.001	<0.01	0.02	<0.2	0.0022	<0.01	<0.01	0.04	---	**0.018**	<0.01	<0.002	0.02	<0.01	<0.005	<0.001	<0.02	<0.01	0.11
	10/7/04	---	---	---	---	---	---	---	---	<0.01	---	---	---	---	---	---	---	---	---	---
	10/14/04	---	---	---	---	---	---	---	---	---	<0.01	---	---	---	---	---	---	---	---	---
Rec Bldg E Sump	10/6/04	<0.001	<0.01	<0.01	<0.2	0.0012	<0.01	<0.01	<0.01	---	<0.015	<0.01	<0.002	<0.01	<0.01	<0.005	<0.001	<0.02	<0.01	0.03
	10/7/04	---	---	---	---	---	---	---	---	<0.01	---	---	---	---	---	---	---	---	---	---
Field Blank	1/20/04	<0.001	<0.01	<0.01	<0.2	<0.001	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.002	<0.01	<0.01	<0.005	<0.001	<0.02	<0.01	<0.01
Rinse Water Blank[a]	3/8/04	---	---	---	---	<0.005	---	---	---	---	<0.01	---	---	---	---	---	---	---	---	---
TCEQ TRRP PCLs[b]																				
Tier 1 Groundwater PCL :[c]		0.006	0.01	2	37	0.005	0.1	4.4	1.3	0.2	0.015	10	0.002	1.5	0.05	0.37	0.002	44	0.51	22

Table 2. Rinse Water Analytical Results Summary - Receiving Building, Facility No. 1, and Facility No. 3 Permitted Container Storage Area Concrete Floors (mg/L), Encycle/Texas, Inc., Corpus Christi, Texas

SAMPLE ID	Date Sampled	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	CN	Lead	Mn	Mercury	Nickel	Se	Silver	Thallium	Tin	Van	Zinc

mg/L Milligrams per liter
CN Cyanide
Mn Manganese
Se Selenium
Van Vanadium
--- Not analyzed
a Rinse water blank collected from plant water supply used to rinse the Facility No. 3 permitted container storage area.
b Texas Risk Reduction Program (TRRP) commercial/industrial Tier 1 Protective Concentration Levels (PCLs) - 30 TAC Chapter 350.
c TRRP Tier 1 Groundwater PCL.
d The Facililty No. 3 concrete floor is painted with a red chemical-resistant coating. A sample of the paint coating was analyzed, and lead was detected in the paint coating. Therefore, as discussed during an April 5, 2004 telephone conversation with David Murry of the TCEQ, a sample of the concrete below the paint coating was collected for total lead analysis to determine if the concrete floor was affected with lead. The concrete sample contained no detectable lead (<1.5 mg/kg), indicating the concrete floor was not affected with lead.

Note: Numbers in **bold** exceed rinse water cleanup level specified in Closure Plan (TRRP Tier 1 PCL).

Table 3. Analytical Results - Facility No. 3 Permitted Container Storage Area Concrete Sample, Encycle/Texas, Inc., Corpus Christi, Texas

Sample ID	Sample Date	Sample Location	Lead Concentration (mg/kg)
Fac 3 Concrete Core	8/31/04	Center of Facility No. 3 permitted container storage area floor.	<1.5
Background Lead Concentrations			
Site-specific soil background concentration for lead:[a]			109.16
Texas-specific median background soil concentration for lead:[b]			15

mg/kg Milligrams per kilogram

a Site-specific background lead concentration in surface soil (0-0.5') approved by the TCEQ on October 15, 2001.

b Texas-Specific Median Background Concentration taken from 30 TAC Chapter 350.51.

Note: Facility No. 3 permitted container storage area concrete sample detection limit for lead does not exceed site-specific soil background concentration or the Texas-specific median background soil concentration for lead.

Table 4. Analytical Results Summary - Groundwater (mg/L), Encycle/Texas, Inc., Corpus Christi, Texas

Well	Sample Date	TDS	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	Cyanide	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
Fill/Alluvium Upgradient Monitor Wells																					
MW-3	01/30/86	---	---	0.007	---	---	---	---	---	0.01	---	<0.001	---	---	---	---	---	---	---	---	0.06
	01/30/87	---	---	0.009	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	0.02
	02/01/88	---	---	0.014	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	0.01
	01/27/89	---	---	0.012	---	---	---	---	---	<0.01	---	0.003	---	---	---	---	---	---	---	---	0.06
	01/23/90	---	---	0.010	---	---	---	---	---	<0.01	---	0.001	---	---	---	---	---	---	---	---	0.03
	01/09/91	---	---	0.006	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	0.03
	01/17/92	---	---	0.015	---	---	---	---	---	0.03	---	<0.001	---	---	---	---	---	---	---	---	<0.01
	02/14/94	---	---	0.014	---	---	---	---	---	<0.01	---	0.001	---	---	---	---	---	---	---	---	0.01
	01/30/95	---	---	0.013	---	---	---	---	---	<0.01	---	0.001	---	---	---	---	---	---	---	---	0.03
	02/20/98	11,200*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	02/20/98	14,800**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	07/23/99	---	---	0.016	0.037	---	<0.01	<0.01	---	---	---	0.007	1.8	<0.0005	---	0.007	<0.005	---	---	---	---
	10/20/99	---	---	0.016	0.037	---	<0.01	<0.01	---	---	---	<0.01	2.5	<0.0005	---	<0.01	<0.005	---	---	---	---
	01/27/00	---	---	0.011	0.043	---	0.008	<0.01	---	---	---	<0.02	1.3	<0.0005	---	0.012	<0.005	---	---	---	---
(dup-1)	01/27/00	---	---	0.008	0.051	---	0.005	<0.01	---	---	---	0.02	2.4	<0.0005	---	<0.01	<0.005	---	---	---	---
	04/25/00	14,870	---	0.016	0.043	---	<0.005	<0.01	---	---	---	0.009	1.8	<0.0005	---	<0.01	<0.005	---	---	---	---
	06/30/00	---	<0.05	---	---	<0.05	---	---	<0.05	<0.05	<0.004	---	1.7	---	<0.05	<0.01	---	<0.002	<0.05	0.065	0.18
	07/28/00	---	<0.05	---	---	<0.05	---	---	<0.05	<0.05	<0.004	---	1.8	---	<0.05	0.015	---	<0.002	<0.05	0.063	0.073
	08/17/00	---	<0.05	---	---	<0.05	---	<0.01	<0.05	<0.05	<0.004	---	3.1	---	<0.05	0.015	---	<0.002	<0.05	0.066	0.12
	12/11/00	---	---	0.016	<0.05	---	<0.01	<0.01	---	---	---	<0.02	2.3	<0.0005	---	<0.01	<0.01	---	---	---	---
	06/14/01	---	---	0.016	<0.05	---	<0.01	0.028	---	---	---	<0.02	1.4	<0.0005	---	0.012	<0.005	---	---	---	---
	12/12/01	---	---	0.015	0.036	---	<0.01	<0.01	---	---	---	<0.01	1.6	<0.0005	---	<0.01	<0.005	---	---	---	---
MW-10	04/29/99	9,238	---	0.026	0.55	---	0.018	0.08	---	---	---	0.11	1.9	0.00058	---	0.25	<0.005	---	---	---	---
	07/23/99	---	---	0.016	0.15	---	<0.01	0.028	---	---	---	0.03	1.2	<0.0005	---	0.16	<0.005	---	---	---	---
	10/20/99	---	---	0.025	0.074	---	<0.01	<0.01	---	---	---	0.013	6.6	0.00057	---	0.049	<0.005	---	---	---	---
	01/27/00	---	---	0.007	0.14	---	<0.01	0.021	---	---	---	0.032	3.6	<0.0005	---	0.12	<0.005	---	---	---	---
	06/30/00	---	<0.05	---	---	<0.05	---	---	<0.05	<0.05	<0.004	---	1.9	---	<0.05	0.14	---	<0.002	<0.05	<0.05	0.62
	07/28/00	---	0.087	---	---	<0.05	---	---	<0.05	<0.05	<0.004	---	1.0	---	<0.05	0.22	---	<0.002	<0.05	<0.05	0.11
	08/17/00	---	<0.05	---	---	<0.05	---	0.02	<0.05	<0.05	<0.004	---	0.9	---	<0.05	0.21	---	<0.002	<0.05	0.056	0.36
	12/11/00	---	---	0.013	0.078	---	<0.01	<0.01	---	---	---	<0.02	0.34	<0.0005	---	0.17	<0.01	---	---	---	---
	06/14/01	---	---	0.03	0.054	---	0.01	<0.01	---	---	---	<0.02	1.1	<0.0005	---	0.28	<0.005	---	---	---	---
	12/12/01	---	---	0.02	0.028	---	<0.01	<0.01	---	---	---	<0.01	2.3	<0.0005	---	0.045	<0.005	---	---	---	---
Background Mean (x)[a]:			0.035	0.0157	0.125	0.05	0.0065	0.0177	0.05	0.05	0.004	0.0262	2.57	0.00032	0.05	0.068	0.0025	0.002	0.05	0.05	0.240
Background Standard Deviation (S):			0.025	0.0066	0.165	0	0.0045	0.0249	0	0	0	0.0329	1.68	0.00014	0	0.089	0	0	0	0.02	0.210
Background Upper Tolerance Interval (x = KS)[b]:			0.127[d]	0.036[c]	0.62[c]	0.05[d]	0.02[c]	0.093[c]	0.05[d]	0.05[d]	0.004[d]	0.126[c]	7.6[c]	0.0007[c]	0.05[d]	0.34[c]	0.0025[c]	0.002[d]	0.05[d]	0.12[d]	1.02[d]

Table 4. Analytical Results Summary - Groundwater (mg/L), Encycle/Texas, Inc., Corpus Christi, Texas

Well	Sample Date	TDS	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	Cyanide	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
Fill/Alluvium Downgradient Wells																					
MW-2	01/30/86	---	---	0.011	---	---	---	---	---	0.01	---	0.006	---	---	---	---	---	---	---	---	0.06
	01/30/87	---	---	0.002	---	---	---	---	---	<0.01	---	0.005	---	---	---	---	---	---	---	---	0.03
	02/01/88	---	---	0.001	---	---	---	---	---	<0.01	---	0.002	---	---	---	---	---	---	---	---	0.02
	01/27/89	---	---	0.002	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	<0.01
	01/23/90	---	---	0.003	---	---	---	---	---	<0.01	---	0.001	---	---	---	---	---	---	---	---	<0.01
	01/09/91	---	---	0.004	---	---	---	---	---	<0.01	---	0.006	---	---	---	---	---	---	---	---	0.02
	01/17/92	---	---	0.005	---	---	---	---	---	**0.10**	---	0.006	---	---	---	---	---	---	---	---	0.05
	02/14/94	---	---	0.004	---	---	---	---	---	<0.01	---	0.002	---	---	---	---	---	---	---	---	0.01
	01/30/95	---	---	0.004	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	0.01
	02/20/98	66,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	06/30/00	---	<0.05	<0.005	0.081	<0.05	<0.005	<0.01	<0.05	<0.05	<0.004	<0.02	2.9	<0.0005	<0.05	0.027	<0.01	<0.002	<0.05	<0.05	0.079
	07/28/00	---	<0.05	<0.009	0.069	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	2.6	<0.0005	<0.05	0.027	**0.02**	<0.002	<0.05	<0.05	<0.05
(dup)	07/28/00	---	<0.05	<0.009	0.072	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	2.6	<0.0005	<0.05	0.017	<0.005	**0.005**	<0.05	<0.05	<0.05
	08/17/00	---	<0.05	<0.008	0.072	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	3.1	<0.0005	<0.05	0.024	<0.005	<0.002	<0.05	<0.05	<0.05
MW-4	01/30/86	---	---	0.009	---	---	---	---	---	0.01	---	<0.001	---	---	---	---	---	---	---	---	0.08
	01/30/87	---	---	0.003	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	<0.01
	02/01/88	---	---	0.003	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	0.01
	01/27/89	---	---	0.001	---	---	---	---	---	<0.01	---	0.001	---	---	---	---	---	---	---	---	<0.01
	01/23/90	---	---	0.002	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	<0.01
	01/09/91	---	---	0.001	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	0.02
	01/17/92	---	---	0.009	---	---	---	---	---	**0.09**	---	0.002	---	---	---	---	---	---	---	---	0.11
	02/14/94	---	---	0.002	---	---	---	---	---	<0.01	---	0.001	---	---	---	---	---	---	---	---	<0.01
	01/30/95	---	---	0.001	---	---	---	---	---	0.01	---	0.001	---	---	---	---	---	---	---	---	0.01
	02/20/98	57,700*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	02/20/98	62,200**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	06/30/00	---	<0.05	<0.005	<0.05	<0.05	<0.005	<0.01	<0.05	<0.05	<0.004	<0.02	1.4	<0.0005	<0.05	0.016	<0.005	<0.002	<0.05	<0.05	0.063
(dup)	06/30/00	---	<0.05	<0.005	<0.05	<0.05	<0.005	<0.01	<0.05	<0.05	<0.004	0.02	1.4	<0.0005	<0.05	0.016	<0.005	<0.002	**0.10**	<0.05	0.061
	07/28/00	---	<0.05	<0.009	<0.05	<0.05	0.02	<0.01	<0.05	<0.05	<0.004	<0.02	1.1	<0.0005	<0.05	0.03	<0.005	**0.011**	<0.05	<0.05	<0.05
	08/17/00	---	<0.05	<0.008	0.054	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	1.2	<0.0005	<0.05	0.022	<0.005	**0.007**	<0.05	<0.05	<0.05
MW-5	01/30/87	---	---	0.006	---	---	---	---	---	0.02	---	0.004	---	---	---	---	---	---	---	---	0.24
	02/01/88	---	---	0.011	---	---	---	---	---	<0.01	---	0.001	---	---	---	---	---	---	---	---	**1.6**
	01/27/89	---	---	0.003	---	---	---	---	---	<0.01	---	0.002	---	---	---	---	---	---	---	---	<0.01
	01/23/90	---	---	0.021	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	**9.5**
	02/16/90	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**2.3**
	01/09/91	---	---	0.009	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	0.03

Table 4. Analytical Results Summary - Groundwater (mg/L), Encycle/Texas, Inc., Corpus Christi, Texas

Well	Sample Date	TDS	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	Cyanide	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
MW-5	01/17/92	---	---	0.004	---	---	---	---	---	**0.08**	---	<0.001	---	---	---	---	---	---	---	---	0.27
(cont.)	02/14/94	---	---	0.016	---	---	---	---	---	<0.01	---	<0.001	---	---	---	---	---	---	---	---	**6.4**
	01/30/95	---	---	0.017	---	---	---	---	---	<0.01	---	0.032	---	---	---	---	---	---	---	---	**10**
	06/30/00	---	<0.05	0.023	<0.05	<0.05	0.006	<0.01	<0.05	<0.05	<0.004	<0.02	**19**	<0.0005	<0.05	<0.01	**0.019**	<0.002	<0.05	<0.05	**6.6**
	07/28/00	---	<0.05	<0.009	<0.05	<0.05	**0.1**	<0.01	<0.05	<0.05	<0.004	<0.02	**20**	<0.0005	**0.08**	0.039	<0.005	**0.003**	<0.05	<0.05	**7.1**
	08/17/00	---	<0.05	<0.008	0.051	<0.05	**0.023**	<0.01	<0.05	<0.05	<0.004	<0.02	**12**	<0.0005	<0.05	0.03	<0.005	**0.004**	<0.05	<0.05	<0.05
MW-6	06/07/93	32,954	---	<0.02	---	---	0.005	---	---	<0.008	---	<0.02	0.48	---	<0.02	---	---	---	---	---	0.064
(dup)	06/07/93	---	---	<0.02	---	---	0.006	---	---	<0.008	---	<0.02	0.45	---	<0.02	---	---	---	---	---	0.075
	06/17/93	10,654	---	<0.02	---	---	**0.027**	---	---	0.035	---	0.028	0.5	---	<0.02	---	---	---	---	---	0.11
	06/24/93	9,717	---	<0.02	---	---	<0.008	---	---	<0.02	---	<0.02	0.8	---	<0.02	---	---	---	---	---	0.043
	02/20/98	22,000*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	02/20/98	32,000**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	04/29/99	---	---	<0.005	0.065	---	<0.01	<0.01	---	---	---	<0.02	0.52	<0.0005	---	<0.01	<0.005	---	---	---	---
	07/23/99	---	---	<0.005	0.024	---	<0.01	<0.01	---	---	---	<0.005	0.43	<0.0005	---	0.006	<0.005	---	---	---	---
	10/20/99	---	---	0.008	0.041	---	<0.01	<0.01	---	---	---	<0.01	0.50	<0.0005	---	<0.01	<0.005	---	---	---	---
	01/27/00	---	---	<0.005	0.11	---	<0.01	<0.01	---	---	---	0.036	0.61	<0.0005	---	<0.01	<0.005	---	---	---	---
	06/30/00	---	<0.05	---	---	<0.05	---	---	<0.05	<0.05	<0.004	---	0.46	---	<0.05	0.014	---	<0.002	<0.05	<0.05	0.065
	07/28/00	---	<0.05	---	---	<0.05	---	---	<0.05	<0.05	<0.004	---	0.46	---	<0.05	0.017	---	<0.002	<0.05	<0.05	<0.05
	08/17/00	---	<0.05	---	---	<0.05	---	<0.01	<0.05	<0.05	<0.004	---	0.43	---	<0.05	0.034	---	<0.002	<0.05	<0.05	<0.05
(dup)	08/17/00	---	<0.05	---	---	<0.05	---	<0.01	<0.05	<0.05	<0.004	---	0.44	---	<0.05	0.026	---	<0.002	<0.05	<0.05	<0.05
	12/11/00	---	---	0.012	<0.05	---	<0.01	<0.01	---	---	---	<0.02	0.27	<0.0005	---	0.023	<0.01	---	---	---	---
	06/14/01	---	---	0.008	<0.05	---	<0.01	0.013	---	---	---	<0.02	0.34	<0.0005	---	0.014	<0.005	---	---	---	---
	12/12/01	---	---	0.01	0.045	---	<0.01	<0.01	---	---	---	<0.01	0.28	<0.0005	---	<0.01	<0.005	---	---	---	---
MW-8	04/29/99	---	---	0.006	0.16	---	<0.01	<0.01	---	---	---	<0.02	0.45	<0.0005	---	0.011	<0.005	---	---	---	---
	07/23/99	---	---	0.012	0.12	---	<0.01	<0.01	---	---	---	0.006	0.27	**0.00082**	---	0.17	<0.005	---	---	---	---
	10/20/99	---	---	0.007	0.076	---	<0.01	<0.01	---	---	---	<0.01	0.48	<0.0005	---	0.13	<0.005	---	---	---	---
	01/27/00	---	---	<0.005	0.049	---	<0.01	<0.01	---	---	---	<0.02	0.62	<0.0005	---	0.02	<0.005	---	---	---	---
	06/30/00	---	<0.05	---	---	<0.05	---	---	<0.05	<0.05	<0.004	---	0.77	---	<0.05	<0.01	---	<0.002	**0.84**	<0.05	0.17
	07/28/00	---	<0.05	---	---	<0.05	---	---	<0.05	<0.05	<0.004	---	0.48	---	<0.05	0.031	---	<0.002	<0.05	<0.05	0.059
	08/17/00	---	<0.05	---	---	<0.05	---	<0.01	<0.05	<0.05	<0.004	---	0.62	---	<0.05	0.025	---	<0.002	<0.05	<0.05	0.097
	12/11/00	---	---	<0.005	0.10	---	<0.01	<0.01	---	---	---	0.032	0.61	**0.00082**	---	<0.01	<0.01	---	---	---	---
	06/14/01	---	---	0.011	0.075	---	<0.01	<0.01	---	---	---	<0.02	0.63	<0.0005	---	0.024	<0.005	---	---	---	---
(dup)	06/14/01	---	---	0.013	0.051	---	<0.01	<0.01	---	---	---	<0.02	0.62	<0.0005	---	0.021	<0.005	---	---	---	---
	12/12/01	---	---	0.015	0.037	---	<0.01	<0.01	---	---	---	<0.01	0.14	<0.0005	---	0.28	<0.005	---	---	---	---

Table 4. Analytical Results Summary - Groundwater (mg/L), Encycle/Texas, Inc., Corpus Christi, Texas

Well	Sample Date	TDS	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	Cyanide	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
MW-9	04/29/99	---	---	0.02	0.5	---	<0.01	0.063	---	---	---	0.053	1.8	0.00044	---	<0.01	<0.005	---	---	---	---
	07/23/99	---	---	0.015	0.039	---	<0.01	<0.01	---	---	---	<0.005	0.62	<0.0005	---	<0.005	<0.005	---	---	---	---
	10/20/99	---	---	0.017	0.029	---	<0.01	<0.01	---	---	---	<0.01	1.1	<0.0005	---	<0.01	<0.005	---	---	---	---
	01/27/00	---	---	<0.005	0.045	---	<0.01	<0.01	---	---	---	<0.02	0.56	<0.0005	---	<0.01	<0.005	---	---	---	---
	06/30/00	---	<0.05	---	---	<0.05	---	---	<0.05	<0.05	<0.004	---	0.57	---	<0.05	<0.01	---	<0.002	**0.27**	0.058	0.3
	07/28/00	---	**0.18**	---	---	<0.05	---	---	<0.05	<0.05	<0.004	---	0.33	---	<0.05	0.02	---	<0.002	<0.05	<0.05	<0.05
	08/17/00	---	0.052	---	---	<0.05	---	0.017	<0.05	<0.05	<0.004	---	0.49	---	<0.05	0.029	---	<0.002	<0.05	0.057	0.26
	12/11/00	---	---	0.012	<0.05	---	<0.01	<0.01	---	---	---	<0.02	0.21	<0.0005	---	0.011	<0.01	---	---	---	---
(dup)	12/11/00	---	---	0.014	<0.05	---	<0.01	<0.01	---	---	---	<0.02	0.2	<0.0005	---	0.011	<0.01	---	---	---	---
	06/14/01	---	---	0.017	0.057	---	0.01	<0.01	---	---	---	<0.02	0.43	<0.0005	---	0.016	<0.005	---	---	---	---
	12/12/01	---	---	0.025	0.043	---	<0.01	<0.01	---	---	---	<0.01	0.77	<0.0005	---	<0.01	<0.005	---	---	---	---
(dup)	12/12/01	---	---	0.025	0.05	---	<0.01	<0.01	---	---	---	<0.01	0.81	<0.0005	---	<0.01	<0.005	---	---	---	---
Beaumont Formation Monitor Wells																					
MW-7	06/07/93	6,646	---	0.033	---	---	<0.003	---	---	0.008	---	<0.02	0.44	---	<0.02	---	---	---	---	---	0.026
	06/17/93	7,026	---	0.022	---	---	**0.056**	---	---	0.01	---	<0.02	0.3	---	<0.02	---	---	---	---	---	0.26
	06/24/93	7,068	---	0.02	---	---	<0.008	---	---	<0.02	---	<0.02	0.35	---	<0.02	---	---	---	---	---	0.013
(dup)	06/24/93	7,101	---	0.024	---	---	<0.008	---	---	<0.02	---	<0.02	0.38	---	<0.02	---	---	---	---	---	0.014
	02/20/98	7,680*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	02/20/98	8,540**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	12/11/01	---	<0.05	**0.044**	0.085	<0.05	<0.01	<0.1	<0.05	<0.05	<0.004	<0.02	0.16	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
	01/16/02	---	<0.05	**0.051**	0.062	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.17	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
	02/12/02	---	<0.05	**0.063**	0.07	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.019	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
MW-11	12/11/01	---	<0.05	<0.005	0.12	**0.059**	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	**7.7**	<0.0005	<0.05	0.015	<0.005	<0.002	<0.05	<0.05	0.18
	01/16/02	---	<0.05	0.006	0.066	<0.05	<0.01	<0.01	<0.05	<0.05	**0.039**	<0.02	6.2	<0.0005	**0.053**	<0.01	<0.005	<0.002	<0.05	<0.05	0.06
	02/12/02	---	<0.05	<0.005	0.066	<0.05	<0.01	<0.01	<0.05	**0.061**	<0.004	<0.02	7.3	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
MW-12	12/27/01	---	<0.05	0.023	0.11	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.13	<0.0005	<0.05	0.27	<0.005	<0.002	<0.05	<0.05	0.092
	01/16/02	---	<0.05	0.032	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.071	<0.0005	<0.05	**0.40**	<0.005	<0.002	<0.05	<0.05	0.062
(dup)	01/16/02	---	<0.05	0.029	0.16	<0.05	<0.01	0.01	<0.05	<0.05	<0.004	<0.02	0.21	<0.0005	<0.05	0.31	<0.005	<0.002	<0.05	0.054	0.19
	02/12/02	---	<0.05	0.035	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.064	<0.0005	<0.05	**0.38**	<0.005	<0.002	<0.05	<0.05	<0.05
MW-13	12/11/01	---	<0.05	0.006	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	**0.14**	<0.02	0.2	<0.0005	<0.05	0.28	<0.005	<0.002	<0.05	<0.05	<0.05
	01/16/02	---	<0.05	0.012	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.065	<0.0005	<0.05	**0.49**	<0.005	<0.002	<0.05	<0.05	<0.05
	02/12/02	---	<0.05	0.016	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.037	<0.0005	<0.05	**0.42**	<0.005	<0.002	<0.05	<0.05	<0.05
(dup)	02/12/02	---	<0.05	0.017	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.043	<0.0005	<0.05	**0.44**	<0.005	<0.002	<0.05	<0.05	<0.05

Table 4. Analytical Results Summary - Groundwater (mg/L), Encycle/Texas, Inc., Corpus Christi, Texas

Well	Sample Date	TDS	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	Cyanide	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
MW-14	12/11/01	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.18	<0.0005	<0.05	0.067	<0.005	<0.002	<0.05	<0.05	0.06
	01/16/02	---	<0.05	0.009	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.077	<0.0005	<0.05	0.12	<0.005	<0.002	<0.05	<0.05	0.089
	02/12/02	---	<0.05	0.009	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.034	<0.0005	<0.05	0.11	<0.005	<0.002	<0.05	<0.05	0.053
MW-15	12/11/01	---	<0.05	0.012	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	**0.23**	<0.02	2.0	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
	01/16/02	---	<0.05	0.027	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	2.7	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
	02/12/02	---	<0.05	0.018	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	3.1	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
MW-16	12/11/01	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.05	0.00056	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
	01/16/02	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	0.012	<0.005	<0.002	<0.05	<0.05	<0.05
	02/12/02	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
MW-17	12/11/01	---	<0.05	<0.005	0.11	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.17	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	0.081
(dup)	12/11/01	---	<0.05	0.013	0.13	<0.05	<0.01	0.01	<0.05	<0.05	<0.004	<0.02	0.83	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	0.084
	01/16/02	---	<0.05	0.026	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.50	<0.0005	<0.05	0.011	<0.005	<0.002	<0.05	<0.05	0.069
	02/12/02	---	<0.05	0.024	<0.05	<0.05	<0.01	0.01	<0.05	<0.05	<0.004	<0.02	0.46	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	0.160
MW-18	12/11/01	---	<0.05	<0.005	0.24	<0.05	<0.01	0.041	<0.05	**0.056**	<0.004	0.039	0.55	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	0.086	0.71
	01/16/02	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	0.064	<0.005	<0.002	<0.05	<0.05	0.36
	02/12/02	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.021	<0.0005	<0.05	0.043	<0.005	<0.002	<0.05	<0.05	0.36
	7/19/02***	---	<0.05	0.006	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	0.037	<0.005	<0.002	<0.05	<0.05	0.42
MW-19	12/11/01	---	<0.05	<0.005	0.2	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.83	<0.0005	<0.05	0.022	<0.005	<0.002	<0.05	0.086	0.11
	01/16/02	---	<0.05	0.005	0.064	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.55	<0.0005	<0.05	0.050	<0.005	<0.002	<0.05	0.069	<0.05
	02/12/02	---	<0.05	<0.005	0.068	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.44	<0.0005	<0.05	0.032	<0.005	<0.002	<0.05	0.071	<0.05
MW-20	12/11/01	---	<0.05	<0.005	0.069	<0.05	<0.01	0.029	<0.05	<0.05	<0.004	<0.02	0.36	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
	01/16/02	---	<0.05	<0.005	0.056	<0.05	<0.01	0.012	<0.05	<0.05	<0.004	<0.02	0.13	<0.0005	<0.05	0.020	<0.005	<0.002	<0.05	<0.05	<0.05
	02/12/02	---	<0.05	<0.005	<0.05	<0.05	<0.01	0.010	<0.05	<0.05	<0.004	<0.02	0.036	<0.0005	<0.05	0.014	<0.005	<0.002	<0.05	<0.05	<0.05
MW-21	12/11/01	---	<0.05	<0.005	0.07	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.51	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	0.062	<0.05
	01/16/02	---	<0.05	0.010	0.087	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.39	<0.0005	<0.05	0.011	<0.005	<0.002	<0.05	0.11	<0.05
	02/12/02	---	<0.05	0.011	0.084	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	0.24	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	0.11	<0.05

Table 4. Analytical Results Summary - Groundwater (mg/L), Encycle/Texas, Inc., Corpus Christi, Texas

Well	Sample Date	TDS	Antimony	Arsenic	Barium	Bismuth	Cadmium	Chromium	Cobalt	Copper	Cyanide	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc
Field	04/29/99	---	---	<0.005	<0.05	---	<0.01	<0.01	---	---	---	<0.02	<0.015	<0.0005	---	<0.01	<0.005	---	---	---	---
Blank	06/30/00	---	<0.05	<0.005	<0.05	<0.05	<0.005	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	0.077
	07/28/00	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
	08/17/00	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	<0.01	<0.005	**0.006**	<0.05	<0.05	<0.05
	12/11/00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	12/11/01	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.05	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
	12/12/01	---	---	<0.005	<0.01	---	<0.01	<0.01	---	---	---	<0.01	<0.015	<0.0005	---	<0.01	<0.005	---	---	---	---
	12/27/01	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
	01/16/02	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
	02/12/02	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
	07/19/02	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
Trip	07/23/99	---	---	<0.005	<0.01	---	<0.01	<0.01	---	---	---	<0.005	<0.015	<0.0005	---	<0.005	<0.005	---	---	---	---
Blank	10/20/99	---	---	<0.005	<0.01	---	<0.01	<0.01	---	---	---	<0.01	<0.01	<0.0005	---	<0.01	<0.005	---	---	---	---
	01/27/00	---	---	<0.005	<0.05	---	<0.01	<0.01	---	---	---	<0.02	0.02	<0.0005	---	<0.01	<0.005	---	---	---	---
	04/25/00	---	---	<0.005	<0.01	---	<0.005	<0.01	---	---	---	<0.005	<0.015	<0.0005	---	<0.01	<0.005	---	---	---	---
	12/11/00	---	---	<0.005	<0.05	---	<0.01	<0.01	---	---	---	<0.02	<0.015	<0.0005	---	<0.01	<0.01	---	---	---	---
	06/14/01	---	---	<0.005	<0.05	---	<0.01	<0.01	---	---	---	<0.02	<0.015	<0.0005	---	<0.01	<0.005	---	---	---	---
	12/12/01	---	---	<0.005	<0.01	---	<0.01	<0.01	---	---	---	<0.01	<0.015	<0.0005	---	<0.01	<0.005	---	---	---	---
	02/12/02	---	<0.05	<0.005	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.004	<0.02	<0.015	<0.0005	<0.05	<0.01	<0.005	<0.002	<0.05	<0.05	<0.05
TNRCC RRS2 MSCs[e]																					
Adjusted GW (mg/L):			0.6	1	200		0.5	10	610	130	20	1.5	1400	0.2	200	5	51	0.2	6100	72	3100

* Sample collected with Teflon bailer from top of water column in well bore.

** Sample collected with bottom-filling Teflon bailer from base of well bore.

*** Sample collected on July 19, 2002 following a release of stormwater from a broken PVC pipe near the South Demin Tank. Stormwater flowed to the monitor well MW-18 area.

--- Not analyzed

dup Duplicate

TDS Total dissolved solids

a *Non-detects were assigned a value of one-half the detection limit, except when all observations were non-detectable the detection limit was used as the constituent concentration.*

b K=Tolerance factor for one-sided normal tolerance interval with 0.95 probability level (U.S. EPA, Feb. 1989)

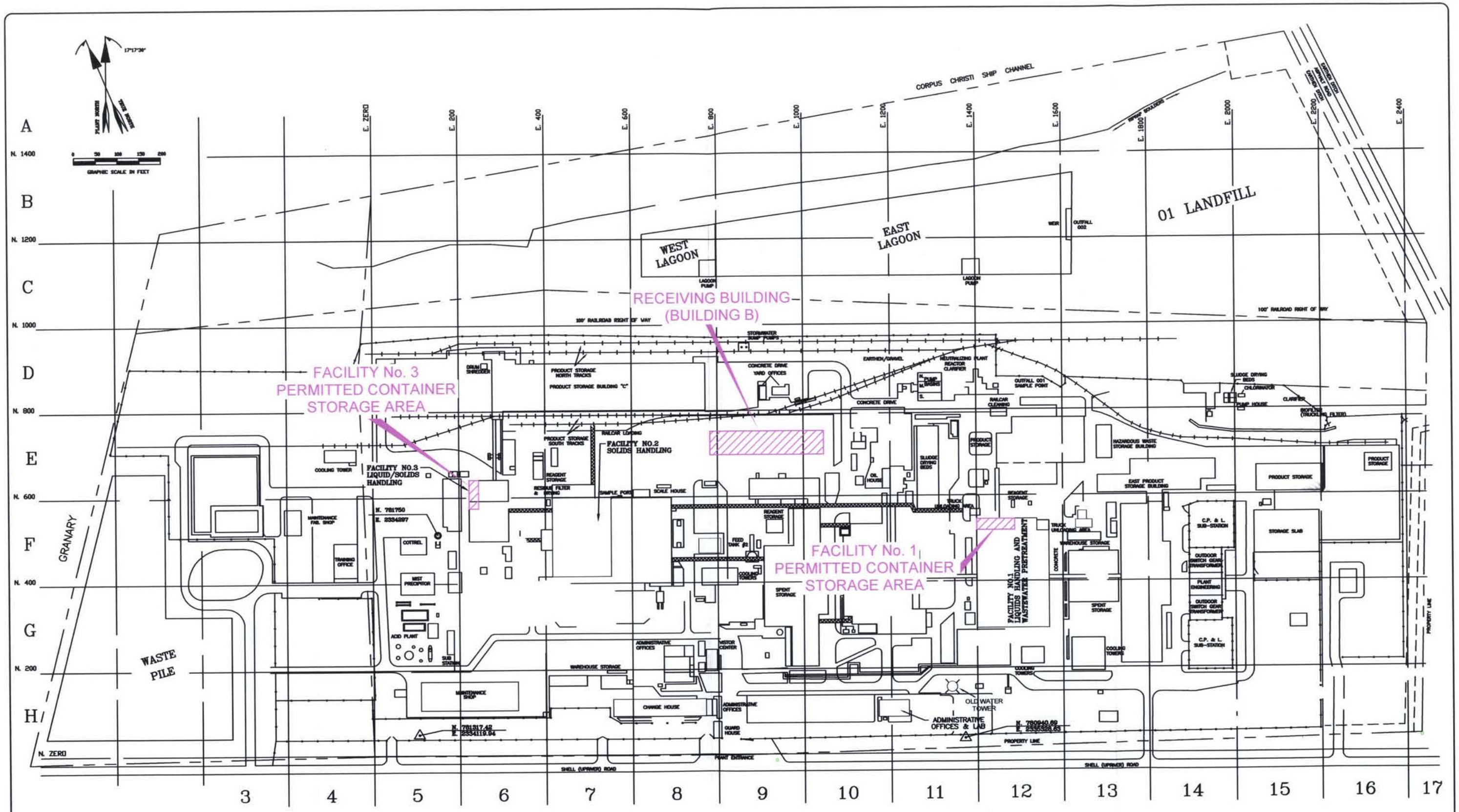
c Background data for arsenic, barium, cadmium, chromium, lead, maganese, mercury, selenium, and silver taken from monitor wells MW-3 and MW-10 during the first year of quarterly groundwater monitoring (April 1999 - April 2000) as part of the East and West Lagoons groundwater monitoring program.

d Background data for antimony, bismuth, cobalt, copper, cyanide, manganese, nickel, selenium, thallium, tin, vanadium, and zinc taken from monitor wells MW-3 and MW-10 during the RFI monthly groundwater sampling events conducted during June, July, and August 2000.

e Adjusted Risk Reduction Standard No. 2 (RRS2) medium specific concentration (MSC) for groundwater (adjusted for saline groundwater).

Note: Numbers in **bold** indicate concentrations above the background upper tolerance limit.

FIGURES



ARCADIS

SCALE VERIFICATION	REV. NO.	DATE	DESCRIPTION	BY	APPR.
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE					

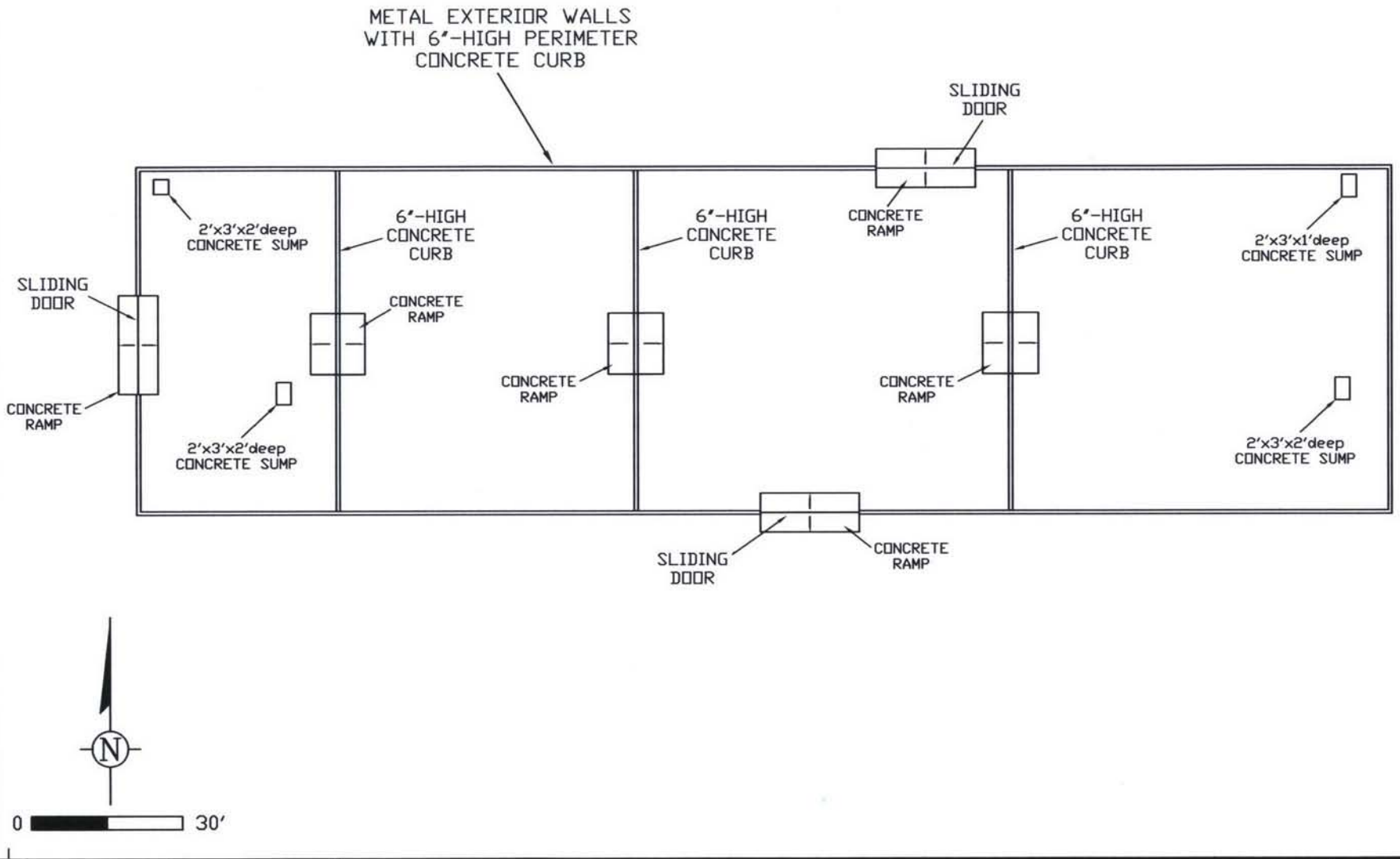
PROJECT NO.: CC00858.0001	FILE NO:
DRAWING: FAC-3-SITA-CLOS	SHEET SIZE: 1=1300
DRAFTED BY:	DATE: 10OCT2000
CHECKED BY:	DATE:
APPROVED BY:	DATE:

SITE MAP

ENCYCLE/TEXAS, INC.
CORPUS CHRISTI, TEXAS

FIGURE 1

DWG DATE: 08NOV04 | PRJCT NO.: CC000867.001 | FILE: | DRAWING: PLAN VIEW-BLDG B | CHECKED: K. BRANDNER | APPROVED: K. BRANDNER | DRAFTER: LGF



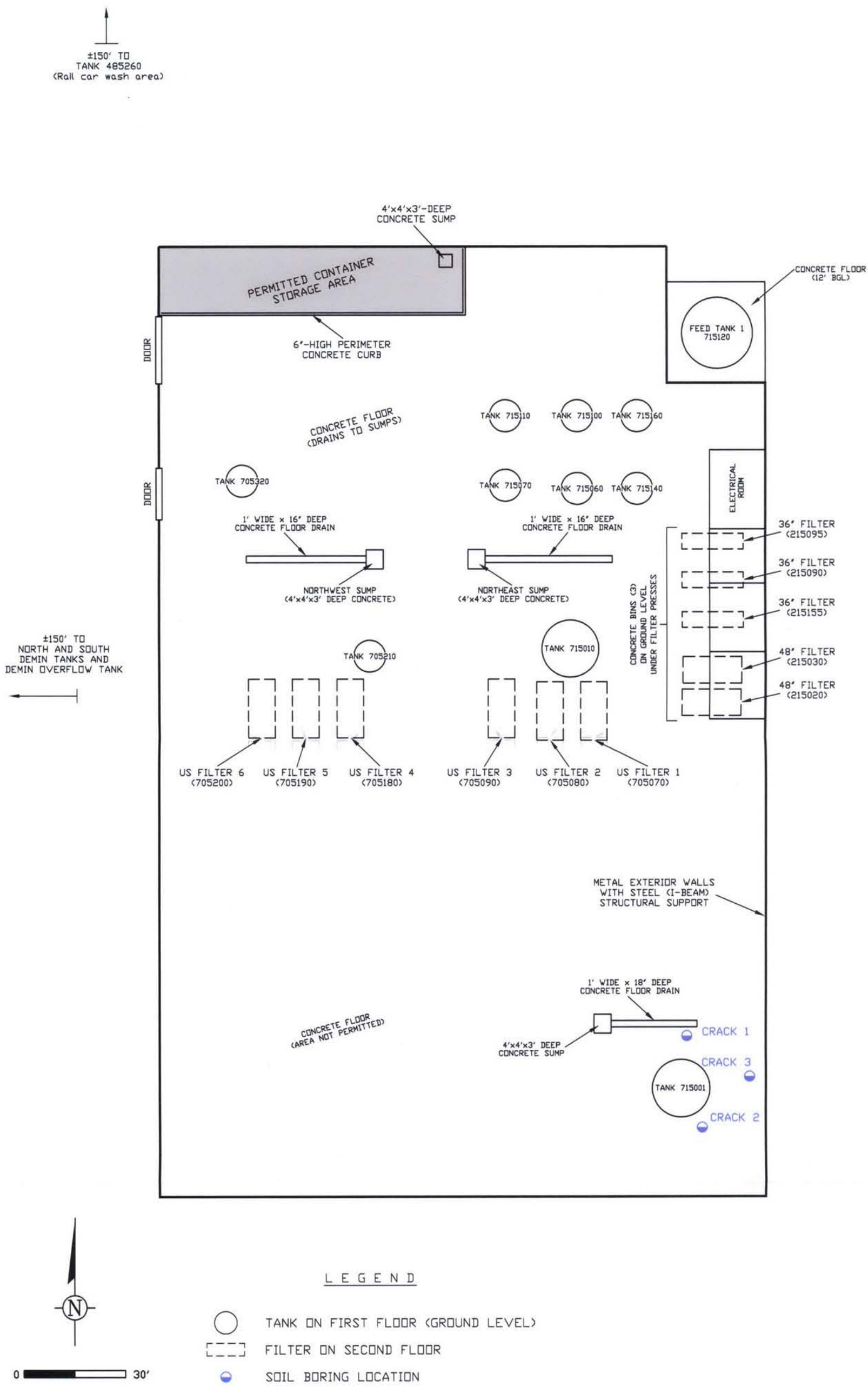
ARCADIS

RECEIVING BUILDING (BUILDING B) PLAN VIEW

ENCYCLE/TEXAS, INC.
CORPUS CHRISTI, TEXAS

FIGURE
2

DWG DATE: 14SEPT04 | PRJCT NO.: | FILE: | DRAWING: FACILITY 1 BLDG | CHECKED: K. BRANDNER | APPROVED: K. BRANDNER | DRAFTER: LGF



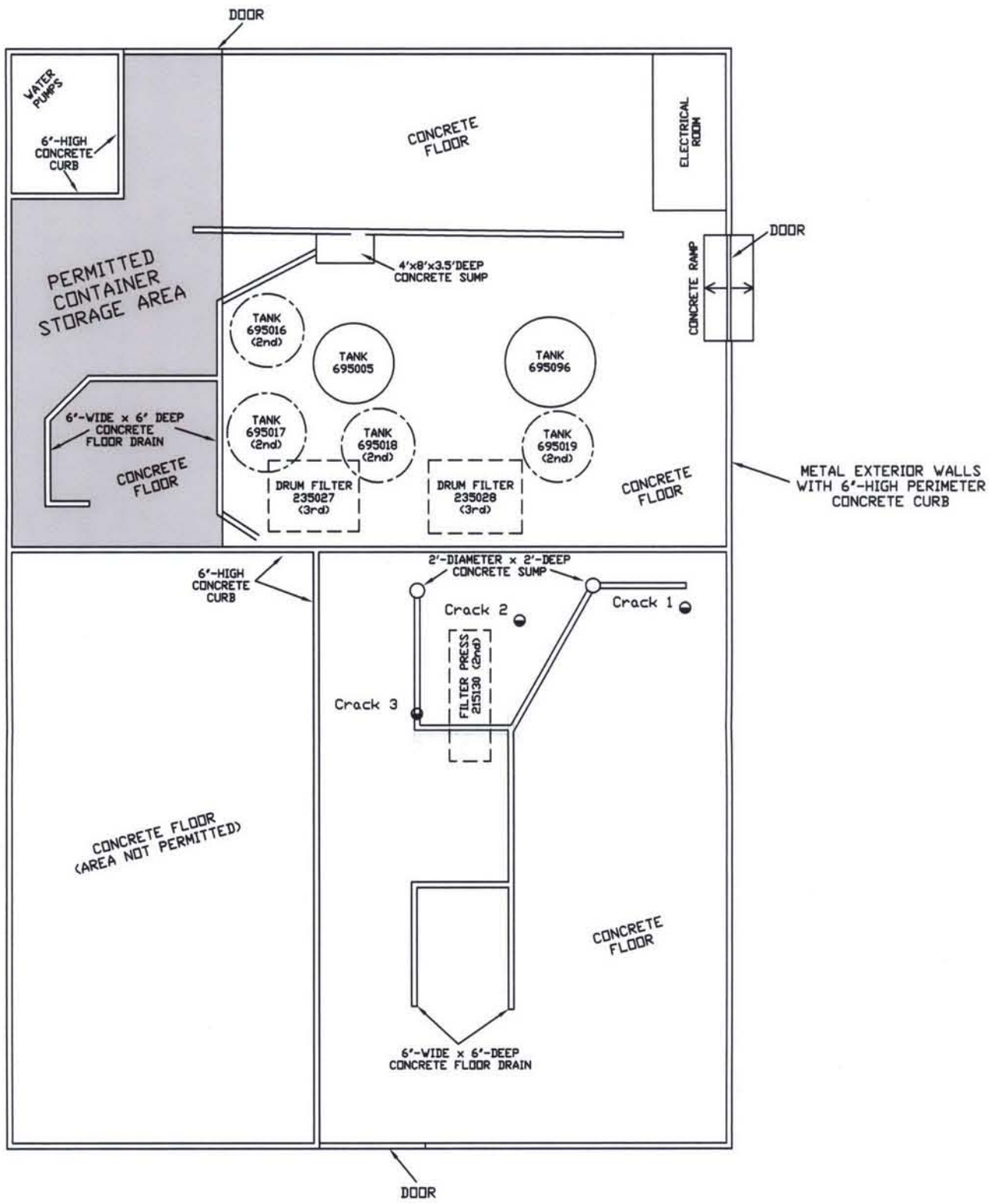
ARCADIS

FACILITY NO. 1 BUILDING PLAN VIEW

ENCYCLE/TEXAS
CORPUS CHRISTI, TEXAS

FIGURE
3

DWG DATE: 25MAR04 | PRJCT NO.: CC000867.000 | FILE: | DRAWING: FACILITY 3 | CHECKED: K. BRANDNER | APPROVED: K. BRANDNER | DRAFTER: LGF



LEGEND

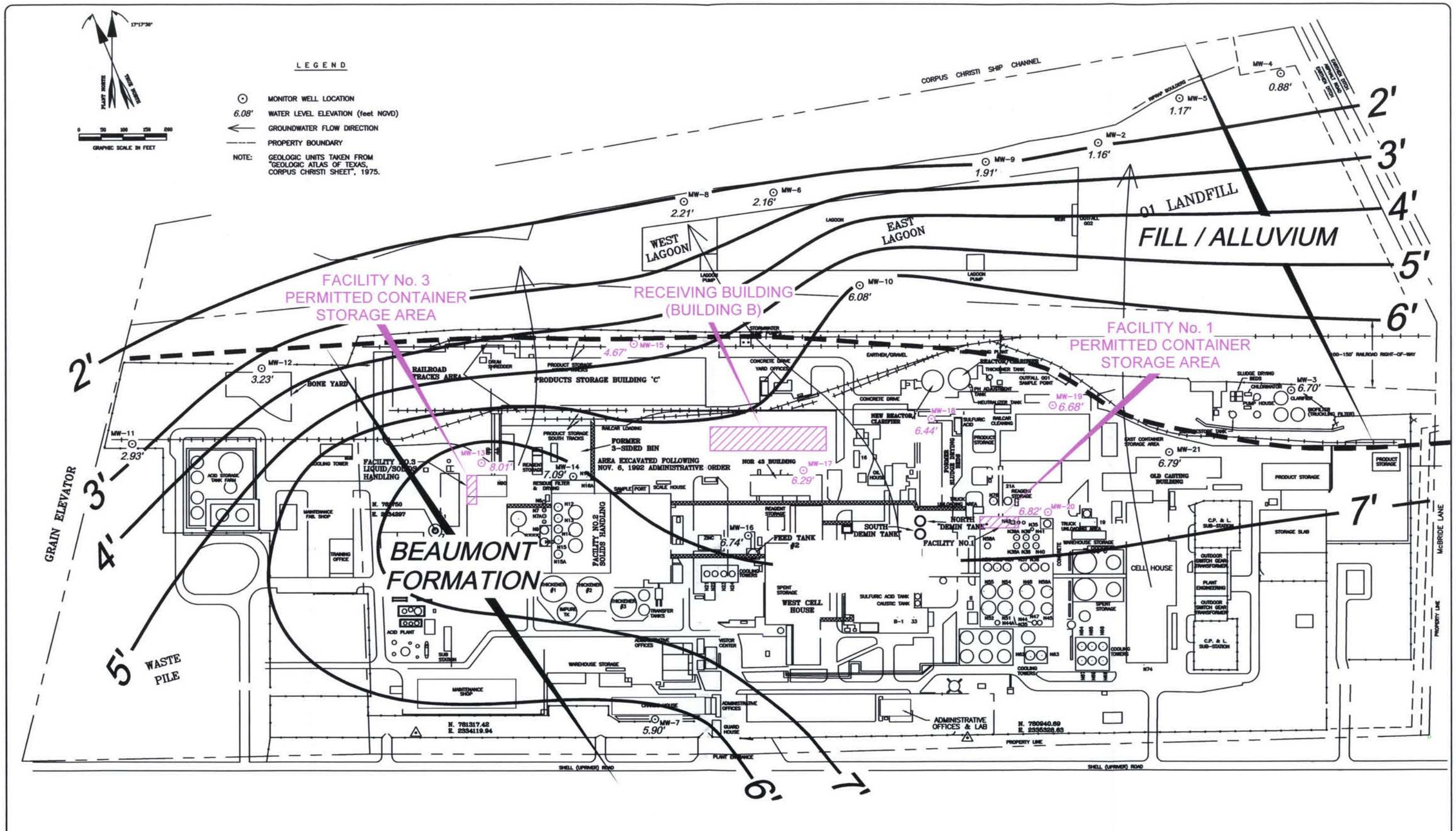
- SOIL BORING LOCATION
- PERMITTED AREA
- TANK ON FIRST FLOOR (GROUND LEVEL)
- TANK ON SECOND FLOOR (2nd)
- FILTER ON SECOND OR THIRD FLOOR (2nd/3rd)

ARCADIS

FACILITY No. 3 BUILDING PLAN VIEW

ENCYCLE/TEXAS INC.
CORPUS CHRISTI, TEXAS

FIGURE
4



ARCADIS

SCALE VERIFICATION
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING:
USE TO VERIFY FIGURE REPRODUCTION SCALE

REV. NO.	DATE	DESCRIPTION	BY	APPR.

PROJECT NO.: CC000642.0002 | FILE NO:
DRAWING: V782-42 | PLOT SIZE: 1=1200
DRAFTED BY: | DATE: 09MAY02
CHECKED BY: | DATE:
APPROVED BY: | DATE:

WATER TABLE MAP
FEBRUARY 11, 2002

ENCYCLE/TEXAS, INC.
CORPUS CHRISTI, TEXAS

FIGURE
5

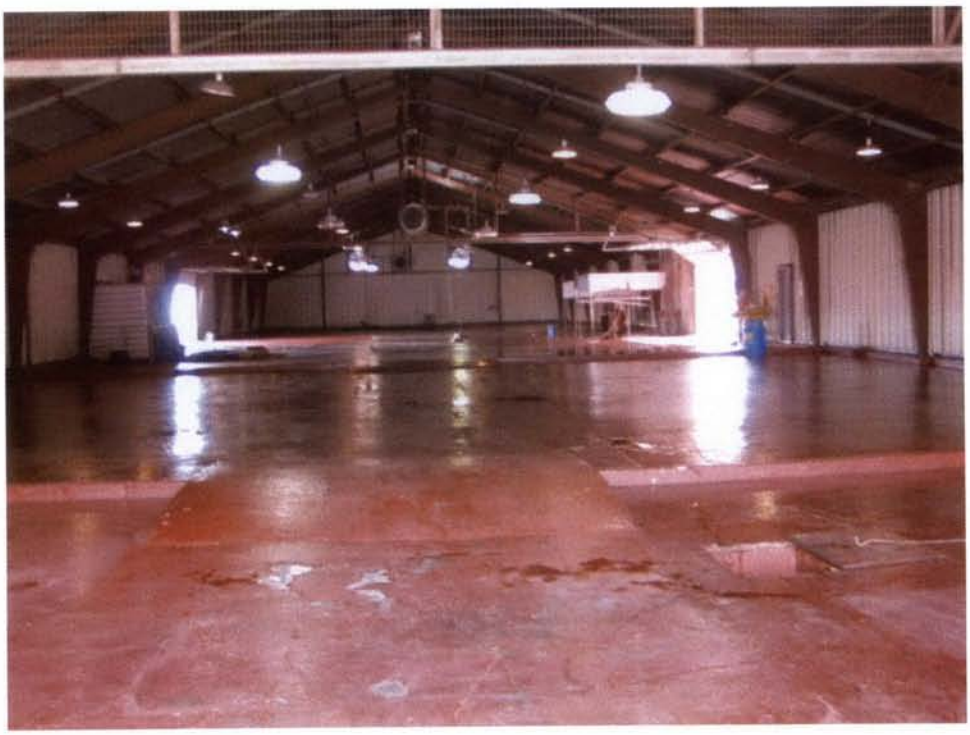
APPENDIX A

ARCADIS

Appendix A

Site Photographs

Photograph No. 1. Receiving Building (Building B), view facing east. Photograph taken by K. Brandner, October 6, 2004.



Photograph No. 2. Receiving Building (Building B), view facing east from west-center end of building. Photograph taken by K. Brandner, October 6, 2004.

Photograph No. 3. Facility No. 1 permitted container storage area, view facing west. Photograph taken by K. Brandner, August 19, 2004.

Photograph No. 4. Facility No. 3 permitted container storage area, view facing southwest. Photograph taken by K. Brandner, January 20, 2004.

APPENDIX B

ARCADIS

Appendix B

Laboratory Report – Facility No. 1
Permitted Container Storage Area
PCB Wipe Sample

SEVERN TRENT STL

RECEIVED
AUG 03 2004
BY:

ANALYTICAL REPORT

JOB NUMBER: 225875

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 07/29/2004

Signature

Name: Chip Meador

Title: Laboratory Director

E-Mail: cmeador@stl-inc.com

7/29/04
Date

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 9

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 07/29/2004

Job Number.: 225875
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000084
Customer Project ID....: ENCYCLE
Project Description....: Project - OVM

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
225875-1	PCB WIPE FACILITY 1 SS#83428	Wipe	07/15/2004	13:55	07/15/2004	14:16

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 225875

Date: 07/29/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE ATTN: Richard Marcus

Customer Sample ID: PCB WIPE FACILITY 1 SS#83428
Date Sampled.....: 07/15/2004
Time Sampled.....: 13:55
Sample Matrix.....: Wipe

Laboratory Sample ID: 225875-1
Date Received.....: 07/15/2004
Time Received.....: 14:16

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 3550B	Extraction (Ultrasonic) PCBs - Wipes					
	Ultrasonic Extraction	Complete			07/23/04	cdt
SW-846 8082	PCB Analysis					
	Aroclor 1016, Wipe	ND	5	ug/100cm2	07/26/04	sew
	Aroclor 1221, Wipe	ND	5	ug/100cm2	07/26/04	sew
	Aroclor 1232, Wipe	ND	5	ug/100cm2	07/26/04	sew
	Aroclor 1242, Wipe	ND	5	ug/100cm2	07/26/04	sew
	Aroclor 1248, Wipe	ND	5	ug/100cm2	07/26/04	sew
	Aroclor 1254, Wipe	ND	5	ug/100cm2	07/26/04	sew
	Aroclor 1260, Wipe	ND	5	ug/100cm2	07/26/04	sew
	Aroclor 1262, Wipe	ND	5	ug/100cm2	07/26/04	sew
	Aroclor 1268, Wipe	ND	5	ug/100cm2	07/26/04	sew

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 225875

Report Date.: 07/29/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE ATTN: Richard Marcus

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: SW-846 8082
Method Description.: PCB Analysis
Units.....: ug/L
Batch.....: 96415
Analyst...: sew

CCV	Continuing Calibration Verification	PCB708042			07/26/2004	1100

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Aroclor 1016	1137		1000.000000		113.7	%	85-115
Aroclor 1260	1062		1000.000000		106.2	%	85-115

CCV	Continuing Calibration Verification	PCB70804A			07/26/2004	1117

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Aroclor 1254	1037		1000.000000		103.7	%	85-115

CCV	Continuing Calibration Verification	PCB70704B			07/26/2004	1135

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
›clor 1242	1069		1000.000000		106.9	%	85-115

LCD	Laboratory Control Sample Duplicate	PCB40630			07/26/2004	1228

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Aroclor 1016, Wipe	1160		1000.000000		116.0	%	66-122
Aroclor 1260, Wipe	1149		1000.000000		114.9	%	77-130

LCS	Laboratory Control Sample	PCB40630			07/26/2004	1210

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Aroclor 1016, Wipe	1141		1000.000000		114.1	%	66-122
Aroclor 1260, Wipe	1140		1000.000000		114.0	%	77-130

MB	Method Blank	072304			07/26/2004	1153

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Aroclor 1016, Wipe	ND						
Aroclor 1221, Wipe	ND						
Aroclor 1232, Wipe	ND						
Aroclor 1242, Wipe	ND						
Aroclor 1248, Wipe	ND						
Aroclor 1254, Wipe	ND						
Aroclor 1260, Wipe	ND						
Aroclor 1262, Wipe	ND						
Aroclor 1268, Wipe	ND						

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

SURROGATE RECOVERIES REPORT

Job Number.: 225875

Report Date.: 07/29/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE ATTN: Richard Marcus

Method.....: PCB Analysis
Batch.....: 96415

Method Code.....: 8082
Analyst.....: sew
Equipment Code: PCB/PEST #3

Surrogate	Units
2,4,5,6-Tetrachloro-m-xylene	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
		CCV		115	100	115	33-130		07/26/2004	1100
		CCV		99	100	99	33-130		07/26/2004	1117
		CCV		102	100	102	33-130		07/26/2004	1135
	Wipe	MB		96	100	96	45-115		07/26/2004	1153
	Wipe	LCS		120	100	120	45-115	X	07/26/2004	1210
	Wipe	LCD		121	100	121	45-115	X	07/26/2004	1228
225875-1	Wipe			114	100	114	45-115		07/26/2004	1245

Surrogate	Units
Decachlorobiphenyl	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
		CCV		111	100	111	10-138		07/26/2004	1100
		CCV		108	100	108	10-138		07/26/2004	1117
		CCV		102	100	102	10-138		07/26/2004	1135
	Wipe	MB		95	100	95	32-129		07/26/2004	1153
	Wipe	LCS		119	100	119	32-129		07/26/2004	1210
	Wipe	LCD		120	100	120	32-129		07/26/2004	1228
225875-1	Wipe			113	100	113	32-129		07/26/2004	1245

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 07/29/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:

The test results in this report meet all NELAP requirements for parameters for which accreditation is held. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND = Not detected at a value greater than the reporting limit
TNTC = Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB Method Blank
ICB Initial Calibration Blank
CCB Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS Method (Matrix) Spike
MSD Method (Matrix) Spike Duplicate
PDS Post Digestion/Distillation Spike
SB Spiked Blank
SBD Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS Laboratory Control Standard
RS Reference Standard
ICV Initial Calibration Verification Standard

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 07/29/2004

CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page ____ of ____

Project Number/Name: Encyclk

Project Location: Corpus Christi, Texas

Laboratory: STL

Project Manager: Ken Brandney

Sampler(s)/Affiliation: [illegible]

22.1°C
Just sampled

225875

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	PCBs EPA 8082 (40z glass w/Hexane wipe pad)						Remarks	Total
PCB wipe Facility 1 SA# 83428	Wipe	7-15-04 13:55		1						100cm² sample area Need 10 micrograms per 100cm² detection limit or lower	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 1

Relinquished by: [signature]	Organization: Arcadis	Date 7/15/04	Time 14:16	Seal Intact?
Received by: [signature]	Organization: STL-CC	Date 7/15/04	Time 1416	Yes No N/A
Relinquished by:	Organization:	Date / /	Time	Seal Intact?
Received by:	Organization:	Date / /	Time	Yes No N/A

Special Instructions/Remarks: Sample delivered in cooler with ice. Normal turnaround. Results to Rich Marcus and Ken Brandney. Invoice to Rich Marcus.

Delivery Method: ☒ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

APPENDIX C

ARCADIS

Appendix C

Manifests for Transformers
removed from Facility No. 1
Permitted Container Storage Area

TEXAS COMMISSION ON
ENVIRONMENTAL QUALITY
P.O. Box 13087
'stin, Texas 78711-3087

se print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form approved. OMB No. 2050-0039.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. TXD008117186 | Manifest Document No. 21440 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
ENCYCLE/TEXAS
5500 UP RIVER ROAD
CORPUS CHRISTI, TEXAS 78407
ATTN: RICHARD MARCUS

4. Generator's Phone (361) 289-6526

A. State Manifest Document Number: 3421440

B. State Generator's ID: 30003

5. Transporter 1 Company Name: TRIAD TRANSPORT

6. US EPA ID Number: OKD981588791

C. State Transporter's ID: 41038

D. Transporter's Phone: (800) 324-1139

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
US ECOLOGY, INC.
HIGHWAY 95, 11 MILES SOUTH OF BEATTY
BEATTY, NV 89003

10. US EPA ID Number: NVT330010000

G. State Facility's ID

H. Facility's Phone: (775) 553-2203

11A. HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
	RQ, POLYCHLORINATED BIPHENYLS, 9, UN2315, PG III (PCB TRANSFORMERS >500 PPM)	001	CM	06057	K	
	RQ, POLYCHLORINATED BIPHENYLS, 9, UN2315, PG III (PCB TRANSFORMERS >500 PPM)	001	CM	03341	K	
	RQ, POLYCHLORINATED BIPHENYLS, 9, UN2315, PG III (PCB DEBRIS)	001	DF	00104	K	
	RQ, POLYCHLORINATED BIPHENYLS, 9, UN2315, PG III (PCB OIL)	~~012~~ 13	DF	02935	K	

J. Additional Descriptions for Materials Listed Above
A-D. 070129002

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CONTACT: 361/289-6526

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, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state 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: RICHARD MARCUS | Signature: Richard Marcus | Month Day Year: 07 27 04

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials | Date

Printed/Typed Name: ROGER ADAMS | Signature: Roger Adams | Month Day Year: 07 27 04

18. Transporter 2 Acknowledgement of Receipt of Materials | Date

Printed/Typed Name | Signature | Month Day Year

FACILITY

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 | Signature | Date: Month Day Year

TEXAS COMMISSION ON
ENVIRONMENTAL QUALITY
P.O. Box 13087
Austin, Texas 78711-3087

se print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form approved. OMB No. 2050-0039.

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. TXD008117186	Manifest Document No. 21439	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address ENCYCLE/TEXAS 5500 UP RIVER ROAD CORPUS CHRISTI, TEXAS 78407 ATTN: RICHARD MARCUS	A. State Manifest Document Number 3421439
4. Generator's Phone (361) 289-6526	B. State Generator's ID 30003
5. Transporter 1 Company Name TRIAD TRANSPORT 6. US EPA ID Number OKD 981588791	C. State Transporter's ID 41038 D. Transporter's Phone (800) 324-1139
7. Transporter 2 Company Name 8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address US ECOLOGY, INC. HIGHWAY 95, 11 MILES SOUTH OF BEATTY BEATTY, NV 89003 10. US EPA ID Number NVT330010000	G. State Facility's ID H. Facility's Phone (775) 553-2203

11A. HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
	a. RQ, POLYCHLORINATED BIPHENYLS, 9, UN2315, PG III (PCB TRANSFORMERS >500 PPM)	001	CM	07864	K	
	b. RQ, POLYCHLORINATED BIPHENYLS, 9, UN2315, PG III (PCB TRANSFORMERS <500 PPM)	001	CM	02491	K	
	c.					
	d.					

J. Additional Descriptions for Materials Listed Above
A-B. 070129002

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CONTACT: 361/289-6526

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, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state 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	Month Day Year
RICHARD MARCUS	Richard Marcus	07 07 04

17. Transporter 1 Acknowledgement of Receipt of Materials		Date
Printed/Typed Name	Signature	Month Day Year
RICHARD STANLEY	R Stanley	07 07 04

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

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	Signature	Date Month Day Year
Tom Dynnet		[redacted]

GENERATOR
TRANSPORTER
FACILITY

TEXAS COMMISSION ON
ENVIRONMENTAL QUALITY
P.O. Box 13087
Austin, Texas 78711-3087

576520 2315

US ECOLOGY
AUG 0 2004
PO BOX 578
BEATTY NV 89003

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form approved. OMB No. 2050-0039. ONYX

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N V T 3 3 0 0 1 0 0 0 0 | Manifest Document No. 2 6 8 9 5

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
US ECOLOGY INC
PO BOX 578
BEATTY NV 89003
HWY 95 11 MILES SOUTH
BEATTY NV 89003

4. Generator's Phone (800)239-3943

A. State Manifest Document Number 3226895

B. State Generator's ID 9 9 9 3 2

5. Transporter 1 Company Name
TRIAD TRANSPORT, INC.

6. US EPA ID Number O. K. D. 9. 8. 1. 5. 8. 8. 7. 9. 1

C. State Transporter's ID 4 1 0 3 8

D. Transporter's Phone 800 324-1139

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
ONYX ENVIRONMENTAL SERV.,
HIGHWAY 73 3.5 MILES W. OF TAYLOR'S BAYOU
PORT ARTHUR TX 77640

10. US EPA ID Number T. X. D. 0. 0. 0. 8. 3. 8. 8. 9. 6

G. State Facility's ID 50212

H. Facility's Phone 409 736-2821

11A. HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
X	a. RQ POLYCHLORINATED BIPHENYLS, LIQUID 9, UN2315, II (PCB)	0 0 1	T T	1.7.41.8	K	
	b.					
	c.					
	d.					

J. Additional Descriptions for Materials Listed Above
11A. 634693, PTACM2911 O.O.S. date 3/31/04

K. Handling Codes for Wastes Listed Above
11A. H040

15. Special Handling Instructions and Additional Information
Primary Emergency Response Number (800)535-5053
DDG043199

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, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state 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.

GENERATOR

Printed/Typed Name: Don Church | Signature | Month Day Year: 08 04 04

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials | Date
Printed/Typed Name: Earnest Landrum | Signature: Earnest Landrum | Month Day Year: 08 04 04

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

FACILITY

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. | Date
Printed/Typed Name: Janet Sheppard | Signature: Janet Sheppard | Month Day Year: 08 06 04

White - original Pink-TSD Facility Yellow-Transporter Green-Generator's first copy

US Ecology
an *American Ecology* company

775-553-2203
Fax 775-553-2742

Certificate of Receipt and Disposal of PCB Waste

Disposal Facility
US Ecology Inc.
P.O. Box 578
Beatty, NV. 89003

EPA identification Number
NVT330010000

Disposal Certification

Generator Name: ENCYCLE-TEXAS INC.

I HEREBY CERTIFY THAT PCB WASTE MATERIAL LISTED ON MANIFEST NO: 21439
AND ANY ATTACHMENTS WAS:

[X] Received at the US Ecology, Inc., Beatty, Nevada facility or 7/29/2004

[ ] Landfilled at the US Ecology, Inc., Beatty, Nevada facility on: _____

[ ] Stored pending shipment for Off-Site Treatment/Incineration

[X] Shipped for Incineration on Manifest No.: 26895/ 3226895 and Incinerated on: 8/23/04
752 Gals. PCB Oil drained from transformer (Line 11a.)

Under civil and criminal penalties of law for making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direction, made the verification that this information is true, accurate and complete.

For US Ecology Inc. Yvonne Wardwell
Yvonne Wardwell

Date: 9/1/2004

US Ecology
an *American Ecology* company

775-553-2203
Fax 775-553-2742

Certificate of Receipt and Disposal of PCB Waste

Disposal Facility
US Ecology Inc.
P.O. Box 578
Beatty, NV. 89003

EPA identification Number
NVT330010000

Disposal Certification

Generator Name: ENCYCLE-TEXAS INC.

I HEREBY CERTIFY THAT PCB WASTE MATERIAL LISTED ON MANIFEST NO: 21440
AND ANY ATTACHMENTS WAS:

[X] Received at the US Ecology, Inc., Beatty, Nevada facility or 7/29/2004

[ ] Landfilled at the US Ecology, Inc., Beatty, Nevada facility on: _____

[ ] Stored pending shipment for Off-Site Treatment/Incineration

[X] Shipped for Incineration on Manifest No. : 26895/ 3226895 and Incinerated on: 8/23/04
688 Gals. PCB Oil drained from 13 drums (Line 11d.)

Under civil and criminal penalties of law for making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direction, made the verification that this information is true, accurate and complete.

For US Ecology Inc. Yvonne Wardwell
Yvonne Wardwell

Date: 9/1/2004

ONYX ENVIRONMENTAL SERVICES, L.L.C.

Federal EPA ID: TXD000838896
State EPA ID: 50212-001
Highway 73
Port Arthur, TX 77643
(409) 736-2821

US ECOLOGY INC
ATTN: MANIFEST SECTION
NVT330010000
HWY 95 11 MI SO OF BEATTY
BEATTY, NV 89003-0578

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from US ECOLOGY INC on 8/6/2004 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0003226895. Onyx Environmental Services, L.L.C., hereby certifies that the above described material was incinerated, and thereby destroyed, in accordance with the 40 CFR, part 761, as it pertains to the incineration of Poly-Chlorinated Biphenyl contaminated materials.

Sequence 1

Profile Number: CM2911
Onyx Tracking ID: 576520

Process	Onyx Unit ID	Treatment Date	Generator #
INCINERATION	1	8/23/2004	N/A

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Melvin Stallworth

24-Aug-04

RECEIVED
AUG 31 2004

TSCA CERTIFICATE OF DISPOSAL

August 06,2004

ENCYCLE/TEXAS, INC.
P.O. BOX 4767
CORPUS CHRISTI, TX 78407

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number **21439/3421439** was received by U.S. Ecology, Inc., on **07/29/2004** .The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by **07/30/2004** in accordance with permits and laws regulating this facility.

Reference Number: 04072903876-21439-1-a
Material: 1 TRANSFORMER (EMPTY CARCASS)
Process: Direct Landfill
Facility: U.S. ECOLOGY, INC.
HIGHWAY 95 11 MILE S OF BEATTY
BEATTY, NV 89003
EPA ID: NVT330010000

Customer: ENCYCLE/TEXAS, INC.

Under civil and criminal penalties of law for making or submission of false or fraudulent statements of representations [18 U.S.C. 1001 and 15 U.S.C. 2615], I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified sections(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having managerial responsibility for the persons who, acting under my direct instructions made the verification that this information is true, accurate and complete.

Printed Name: TROY COOLEY

Signature: _____

Title: LAB MANAGER

TSCA CERTIFICATE OF DISPOSAL

August 06,2004

ENCYCLE/TEXAS, INC.
P.O. BOX 4767
CORPUS CHRISTI, TX 78407

This is to certify that waste as defined on Uniform Hazardous Waste Manifest numbe**21440/3421440** was received by U.S. Ecology, Inc., or**07/29/2004** .The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by**07/30/2004** in accordance with permits and laws regulating this facility.

Reference Number: 04072903878-21440-1-b
Material: 1 TRANSFORMER (EMPTY CARCASS)
Process: Direct Landfill
Facility: U.S. ECOLOGY, INC.
HIGHWAY 95 11 MILE S OF BEATTY
BEATTY, NV 89003
EPA ID: NVT330010000

Customer: ENCYCLE/TEXAS, INC.

Under civil and criminal penalties of law for making or submission of false or fraudulent statements of representations [18 U.S.C. 1001 and 15 U.S.C. 2615], I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified sections(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having managerial responsibility for the persons who, acting under my direct instructions made the verification that this information is true, accurate and complete.

Printed Name: TROY COOLEY

Signature: _____

Title: LAB MANAGER

TSCA CERTIFICATE OF DISPOSAL

August 06,2004

ENCYCLE/TEXAS, INC.
P.O. BOX 4767
CORPUS CHRISTI, TX 78407

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number **21440/3421440** was received by U.S. Ecology, Inc., on **07/29/2004** .The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by **07/29/2004** in accordance with permits and laws regulating this facility.

Reference Number: 04072903878-21440-1-c
Material: 1 PLASTIC DRUM
Process: Direct Landfill
Facility: U.S. ECOLOGY, INC.
HIGHWAY 95 11 MILE S OF BEATTY
BEATTY, NV 89003
EPA ID: NVT330010000

Customer: ENCYCLE/TEXAS, INC.

Under civil and criminal penalties of law for making or submission of false or fraudulent statements of representations [18 U.S.C. 1001 and 15 U.S.C. 2615], I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified sections(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having managerial responsibility for the persons who, acting under my direct instructions made the verification that this information is true, accurate and complete.

Printed Name: TROY COOLEY

Signature: _____

Title: LAB MANAGER

TSCA CERTIFICATE OF DISPOSAL

August 06,2004

ENCYCLE/TEXAS, INC.
P.O. BOX 4767
CORPUS CHRISTI, TX 78407

This is to certify that waste as defined on Uniform Hazardous Waste Manifest numbe**r21440/3421440** was received by U.S. Ecology, Inc., or**07/29/2004** .The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by**07/30/2004** in accordance with permits and laws regulating this facility.

Reference Number: 04072903878-21440-1-d
Material: 13 PLASTIC DRUM (PCB CRUSHED EMPTY ( )
Process: Direct Landfill
Facility: U.S. ECOLOGY, INC.
HIGHWAY 95 11 MILE S OF BEATTY
BEATTY, NV 89003
EPA ID: NVT330010000

Customer: ENCYCLE/TEXAS, INC.

Under civil and criminal penalties of law for making or submission of false or fraudulent statements of representations [18 U.S.C. 1001 and 15 U.S.C. 2615], I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified sections(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having managerial responsibility for the persons who, acting under my direct instructions made the verification that this information is true, accurate and complete.

Printed Name: TROY COOLEY

Signature: _____

Title: LAB MANAGER

APPENDIX D

ARCADIS

Appendix D

Constituents of Concern

Table 2. Constituents of Concern, Encycle/Texas, Inc., Corpus Christi, Texas

Constituent
Antimony
Arsenic
Barium
Bismuth
Cadmium
Chromium
Cobalt
Copper
Cyanide
Lead
Manganese
Mercury
Nickel
Selenium
Silver
Thallium
Tin
Vanadium
Zinc

APPENDIX E

ARCADIS

Appendix E

Laboratory Reports – Rinse Water Samples

SEVERN TRENT STL

RECEIVED
SEP 15 2004
BY:

ANALYTICAL REPORT

JOB NUMBER: 226348

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 09/13/2004

Signature

Name: Chip Meador

Title: Laboratory Director

E-Mail: cmeador@stl-inc.com

9/13/04
Date

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 35

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 09/13/2004

Job Number.: 226348
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000353
Customer Project ID....: ENCYCLE RCRA CLOSURE
Project Description....: Encycle

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
226348-1	FACILITY 1 PERMITTED FLOOR	Water	08/19/2004	00:00	08/19/2004	16:45

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 226348

Date: 09/13/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: FACILITY 1 PERMITTED FLOOR
Date Sampled.....: 08/19/2004
Time Sampled.....: 00:00
Sample Matrix.....: Water

Laboratory Sample ID: 226348-1
Date Received.....: 08/19/2004
Time Received.....: 16:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	08/24/04	hmz
EPA 9010B/9012	Cyanide, Total	<0.02	0.02	mg/L	08/19/04	dev
SW-846 6010B	Arsenic (As), Total	<0.01	0.01	mg/L	08/20/04	jem
SW-846 6010B	Barium (Ba), Total	0.11	0.01	mg/L	08/20/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	08/20/04	jem
SW-846 6010B	Cobalt (Co), Total	<0.01	0.01	mg/L	08/20/04	jem
SW-846 6010B	Copper (Cu), Total	0.01	0.01	mg/L	08/20/04	jem
SW-846 6010B	Lead (Pb), Total	<0.015	0.015	mg/L	08/20/04	jem
SW-846 6010B	Manganese (Mn), Total	0.07	0.01	mg/L	08/20/04	jem
SW-846 6010B	Nickel (Ni), Total	<0.01	0.01	mg/L	08/20/04	jem
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	08/20/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	08/20/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	08/20/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	08/20/04	jem
SW-846 6010B	Zinc (Zn), Total	0.04	0.01	mg/L	08/20/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			08/20/04	cdt

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 226348

Report Date.: 09/13/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 7470A
Method Description.: Mercury (CVAA)
Parameter.....: Mercury (Hg)

Batch.....: 97404
Units.....: mg/L

Analyst...: hmz
Test Code.: HG

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M40824HG	0.00513		0.00500		102.6	%	90-110	08/24/2004	1555
ICB			0.000106							08/24/2004	1559
LCS		M40824LG	0.00503		0.0050		100.6	%	85-115	08/24/2004	1606
MS	226346-1	M40824HG	0.00403		0.00500	-0.000087	82.3	%	70-130	08/24/2004	1613
MSD	226346-1	M40824HG	0.00420	0.00403	0.00500	-0.000087	85.7	%	70-130	08/24/2004	1616
							4.1	R	20		
CCV		M40824HG	0.00483		0.00500		96.6	%	80-120	08/24/2004	1652
CCB			0.000017							08/24/2004	1656
MS	226356-1	M40824HG	0.00480		0.00500	-0.000209	100.2	%	70-130	08/24/2004	1706
MSD	226356-1	M40824HG	0.00517	0.00480	0.00500	-0.000209	107.6	%	70-130	08/24/2004	1710
							7.4	R	20		
CCV		M40824HG	0.00464		0.00500		92.8	%	80-120	08/24/2004	1713
CCB			-0.000012							08/24/2004	1717

Test Method.....: SW-846 7470A
Method Description.: Mercury (CVAA)
Parameter.....: Mercury (Hg)

Batch.....: 97404
Units.....: mg/L

Analyst...: hmz
Test Code.: HGL

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M40824HG	0.00513		0.00500		102.6	%	90-110	08/24/2004	1555
ICB			0.000106							08/24/2004	1559
LCS		M40824LG	0.00503		0.0050		100.6	%	85-115	08/24/2004	1606
MS	226346-1	M40824HG	0.00403		0.00500	-0.00008	82.2	%	70-130	08/24/2004	1613
MSD	226346-1	M40824HG	0.00420	0.00403	0.00500	-0.00008	85.6	%	70-130	08/24/2004	1616
							4.1	R	20		
CCV		M40824HG	0.00483		0.00500		96.6	%	80-120	08/24/2004	1652
CCB			0.000017							08/24/2004	1656
MS	226356-1	M40824HG	0.00480		0.00500	-0.000209	100.2	%	70-130	08/24/2004	1706
MSD	226356-1	M40824HG	0.00517	0.00480	0.00500	-0.000209	107.6	%	70-130	08/24/2004	1710
							7.4	R	20		
CCV		M40824HG	0.00464		0.00500		92.8	%	80-120	08/24/2004	1713
CCB			-0.000012							08/24/2004	1717

Test Method.....: EPA 9010B/9012A
Method Description.: Cyanide (Colorimetric, Automated)
Parameter.....: Cyanide, Total

Batch.....: 97280
Units.....: mg/L

Analyst...: dev
Test Code.: CNT

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB		081904	-0.0005							08/19/2004	1530
CCV		CN040819E	0.4146		0.4000		103.7	%	90-110	08/19/2004	1532
MB		081904	0.0023							08/19/2004	1535
LCS		CN040819P	0.0528		0.0500		105.6	%	69-112	08/19/2004	1537
LCS		CN040819Q	0.0938		0.0999		93.9	%	69-112	08/19/2004	1539
LCS		CN040819R	0.1990		0.2000		99.5	%	69-112	08/19/2004	1542
MS	226253-1	CN040819S	0.0497		0.0500	0.0049	89.6	%	75-125	08/19/2004	1551
MSD	226253-1	CN040819S	0.0480	0.0497	0.0500	0.0049	86.2	%	75-125	08/19/2004	1553
							3.5	R	20		
CCB		081904	0.0002							08/19/2004	1558
CCV		CN040819E	0.4214		0.4000		105.3	%	90-110	08/19/2004	1600

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 226348 Report Date.: 09/13/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: EPA 9010B/9012A Batch.....: 97280 Analyst...: dev
Method Description.: Cyanide (Colorimetric, Automated) Units.....: mg/L Test Code.: CNT
Parameter.....: Cyanide, Total

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB		081904	-0.0010							08/19/2004	1730
CCV		CN040819E	0.4176		0.4000		104.4	%	90-110	08/19/2004	1736
CCB		081904	-0.0008							08/19/2004	1754
CCV		CN040819E	0.4137		0.4000		103.4	%	90-110	08/19/2004	1800

Test Method.....: SW-846 6010B Batch.....: 97321 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.99517133		2.00		99.8	%	90-110	08/20/2004	1624
ICV		M0368	0.98206422		1.00		98.2	%	90-110	08/20/2004	1633
ICV		M0380	0.98041939		1.00		98.0	%	90-110	08/20/2004	1642
ICB			0.00218239							08/20/2004	1656
ICB			-0.0014489							08/20/2004	1708
ICV		M0393	0.48853365		0.500		97.7	%	90-110	08/20/2004	1712
CCV		M0388	0.95975147		1.00		96.0	%	90-110	08/20/2004	1717
CCB			-0.0044387							08/20/2004	1729
MB		3010	0.00229002							08/20/2004	1809
LCS		M351	0.48887365		0.500		97.8	%	80-120	08/20/2004	1816
CCV		M0388	0.96220312		1.00		96.2	%	90-110	08/20/2004	1821
CCB			-0.0044445							08/20/2004	1834
MS	226338-3	M351	0.51263351		0.500	-0.0015274	102.8	%	75-125	08/20/2004	1920
CCV		M0388	0.95813802		1.00		95.8	%	90-110	08/20/2004	1925
CCB			-0.0012514							08/20/2004	1937
MSD	226338-3	M351	0.52094691	0.51263351	0.500	-0.0015274	104.5	%	75-125	08/20/2004	1941
							1.6	R	20		
CCV		M0388	0.96513471		1.00		96.5	%	90-110	08/20/2004	2021
CCB			0.00470227							08/20/2004	2034
CCV		M0388	0.95202267		1.00		95.2	%	90-110	08/20/2004	2122
CCB			0.00243719							08/20/2004	2131

Test Method.....: SW-846 6010B Batch.....: 97321 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.97170924		2.00		98.6	%	90-110	08/20/2004	1624
ICV		M0369	0.94194953		1.00		94.2	%	90-110	08/20/2004	1638
ICB			-0.0000954							08/20/2004	1656
ICB			-0.0000576							08/20/2004	1708
ICV		M0393	0.49551669		0.500		99.1	%	90-110	08/20/2004	1712
CCV		M0388	0.96530535		1.00		96.5	%	90-110	08/20/2004	1717
CCB			-0.0000559							08/20/2004	1729
MB		3010	-0.0000070							08/20/2004	1809
LCS		M351	0.49136540		0.500		98.3	%	80-120	08/20/2004	1816
CCV		M0388	0.96455537		1.00		96.5	%	90-110	08/20/2004	1821
CCB			0.00003059							08/20/2004	1834
MS	226338-3	M351	0.50095419		0.500	0.01886745	96.4	%	75-125	08/20/2004	1920

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 226348 | Report Date.: 09/13/2004

CUSTOMER: Encycle Texas, Inc. | PROJECT: ENCYCLE RCRA CLOSURE | ATTN: Richard Marcus

Test Method.....: SW-846 6010B | Batch.....: 97321 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	0.93659380		1.00		93.7	%	90-110	08/20/2004	1925
CCB			0.00010886							08/20/2004	1937
MSD	226338-3	M351	0.49274449	0.50095419	0.500	0.01886745	94.8	%	75-125	08/20/2004	1941
							1.7	R	20		
CCV		M0388	0.96665345		1.00		96.7	%	90-110	08/20/2004	2021
CCB			-0.0000174							08/20/2004	2034
CCV		M0388	0.96532270		1.00		96.5	%	90-110	08/20/2004	2122
CCB			0.00014662							08/20/2004	2131

Test Method.....: SW-846 6010B | Batch.....: 97321 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.98070033		2.00		99.0	%	90-110	08/20/2004	1624
ICV		M0368	0.98837131		1.00		98.8	%	90-110	08/20/2004	1633
ICV		M0380	0.99305909		1.00		99.3	%	90-110	08/20/2004	1642
ICB			0.00028651							08/20/2004	1656
ICB			0.00028984							08/20/2004	1708
ICV		M0393	0.49078459		0.500		98.2	%	90-110	08/20/2004	1712
CCV		M0388	0.96400909		1.00		96.4	%	90-110	08/20/2004	1717
CCB			0.00025631							08/20/2004	1729
MB		3010	0.00013284							08/20/2004	1809
LCS		M351	0.48800921		0.500		97.6	%	80-120	08/20/2004	1816
CCV		M0388	0.96346812		1.00		96.3	%	90-110	08/20/2004	1821
CCB			0.00082952							08/20/2004	1834
MS	226338-3	M351	0.47843322		0.500	0.00091263	95.5	%	75-125	08/20/2004	1920
CCV		M0388	0.93907645		1.00		93.9	%	90-110	08/20/2004	1925
CCB			0.00077468							08/20/2004	1937
MSD	226338-3	M351	0.47662893	0.47843322	0.500	0.00091263	95.1	%	75-125	08/20/2004	1941
							0.4	R	20		
CCV		M0388	0.97183238		1.00		97.2	%	90-110	08/20/2004	2021
CCB			-0.0002269							08/20/2004	2034
CCV		M0388	0.96645756		1.00		96.6	%	90-110	08/20/2004	2122
CCB			0.00076979							08/20/2004	2131

Test Method.....: SW-846 6010B | Batch.....: 97321 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.98003450		2.00		99.0	%	90-110	08/20/2004	1624
ICV		M0368	1.00219655		1.00		100.2	%	90-110	08/20/2004	1633
ICV		M0380	1.04406164		1.00		104.4	%	90-110	08/20/2004	1642
ICB			-0.0002208							08/20/2004	1656
ICB			0.00017469							08/20/2004	1708
ICV		M0393	0.49198057		0.500		98.4	%	90-110	08/20/2004	1712
CCV		M0388	0.97266170		1.00		97.3	%	90-110	08/20/2004	1717
CCB			-0.0002977							08/20/2004	1729

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 226348 | Report Date.: 09/13/2004

CUSTOMER: Encycle Texas, Inc. | PROJECT: ENCYCLE RCRA CLOSURE | ATTN: Richard Marcus

Test Method.....: SW-846 6010B | Batch.....: 97321 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		3010	-0.0000966							08/20/2004	1809
LCS		M351	0.48899945		0.500		97.8	%	80-120	08/20/2004	1816
CCV		M0388	0.96537970		1.00		96.5	%	90-110	08/20/2004	1821
CCB			-0.0000720							08/20/2004	1834
MS	226338-3	M351	0.47973917		0.500	-0.0002356	96.0	%	75-125	08/20/2004	1920
CCV		M0388	0.94535217		1.00		94.5	%	90-110	08/20/2004	1925
CCB			-0.0000314							08/20/2004	1937
MSD	226338-3	M351	0.48384714	0.47973917	0.500	-0.0002356	96.8	%	75-125	08/20/2004	1941
							0.9	R	20		
CCV		M0388	0.96849827		1.00		96.8	%	90-110	08/20/2004	2021
CCB			-0.0000532							08/20/2004	2034
CCV		M0388	0.96415497		1.00		96.4	%	90-110	08/20/2004	2122
CCB			-0.0000089							08/20/2004	2131

Test Method.....: SW-846 6010B | Batch.....: 97321 | Analyst...: jem
ethod Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: CU
arameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.96193087		2.00		98.1	%	90-110	08/20/2004	1624
ICV		M0368	0.98995940		1.00		99.0	%	90-110	08/20/2004	1633
ICV		M0380	0.99098024		1.00		99.1	%	90-110	08/20/2004	1642
ICB			-0.0000196							08/20/2004	1656
ICB			0.00035294							08/20/2004	1708
ICV		M0393	0.49531996		0.500		99.1	%	90-110	08/20/2004	1712
CCV		M0388	0.96426266		1.00		96.4	%	90-110	08/20/2004	1717
CCB			-0.0011389							08/20/2004	1729
MB		3010	-0.0012684							08/20/2004	1809
LCS		M351	0.48841526		0.500		97.7	%	80-120	08/20/2004	1816
CCV		M0388	0.96507292		1.00		96.5	%	90-110	08/20/2004	1821
CCB			0.00034498							08/20/2004	1834
MS	226338-3	M351	0.53755581		0.500	-0.0035284	108.2	%	75-125	08/20/2004	1920
CCV		M0388	0.93786732		1.00		93.8	%	90-110	08/20/2004	1925
CCB			-0.0010641							08/20/2004	1937
MSD	226338-3	M351	0.53808882	0.53755581	0.500	-0.0035284	108.3	%	75-125	08/20/2004	1941
							0.1	R	20		
CCV		M0388	0.98154163		1.00		98.2	%	90-110	08/20/2004	2021
CCB			-0.0015992							08/20/2004	2034
CCV		M0388	0.95952003		1.00		96.0	%	90-110	08/20/2004	2122
CCB			0.00032117							08/20/2004	2131

Test Method.....: SW-846 6010B | Batch.....: 97321 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ˆS		M0387	1.98790418		2.00		99.4	%	90-110	08/20/2004	1624
V		M0368	1.00892438		1.00		100.9	%	90-110	08/20/2004	1633
ıCV		M0380	1.00514728		1.00		100.5	%	90-110	08/20/2004	1642

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 226348

Report Date.: 09/13/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B
Method Description.: Metals Analysis (ICAP)
Parameter.....: Lead (Pb)

Batch.....: 97321
Units.....: mg/L

Analyst...: jem
Test Code.: PB

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICB			0.00038387							08/20/2004	1656
ICB			-0.0009350							08/20/2004	1708
ICV		M0393	0.49802574		0.500		99.6	%	90-110	08/20/2004	1712
CCV		M0388	0.96666664		1.00		96.7	%	90-110	08/20/2004	1717
CCB			-0.0019170							08/20/2004	1729
MB		3010	-0.0024784							08/20/2004	1809
LCS		M351	0.48889934		0.500		97.8	%	80-120	08/20/2004	1816
CCV		M0388	0.96525218		1.00		96.5	%	90-110	08/20/2004	1821
CCB			-0.0000214							08/20/2004	1834
MS	226338-3	M351	0.47892192		0.500	0.00362752	95.1	%	75-125	08/20/2004	1920
CCV		M0388	0.95285610		1.00		95.3	%	90-110	08/20/2004	1925
CCB			0.00155447							08/20/2004	1937
MSD	226338-3	M351	0.48191843	0.47892192	0.500	0.00362752	95.7	%	75-125	08/20/2004	1941
							0.6	R	20		
CCV		M0388	0.95908392		1.00		95.9	%	90-110	08/20/2004	2021
CCB			-0.0013074							08/20/2004	2034
CCV		M0388	0.95008210		1.00		95.0	%	90-110	08/20/2004	2122
3			-0.0028005							08/20/2004	2131

Test Method.....: SW-846 6010B
Method Description.: Metals Analysis (ICAP)
Parameter.....: Manganese (Mn)

Batch.....: 97321
Units.....: mg/L

Analyst...: jem
Test Code.: MN

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.99478241		2.00		99.7	%	90-110	08/20/2004	1624
ICV		M0368	0.99259810		1.00		99.3	%	90-110	08/20/2004	1633
ICV		M0380	0.97119627		1.00		97.1	%	90-110	08/20/2004	1642
ICB			-0.0001669							08/20/2004	1656
ICB			-0.0003235							08/20/2004	1708
ICV		M0393	0.49012153		0.500		98.0	%	90-110	08/20/2004	1712
CCV		M0388	0.96349948		1.00		96.3	%	90-110	08/20/2004	1717
CCB			-0.0002879							08/20/2004	1729
MB		3010	-0.0001796							08/20/2004	1809
LCS		M351	0.49059474		0.500		98.1	%	80-120	08/20/2004	1816
CCV		M0388	0.96163473		1.00		96.2	%	90-110	08/20/2004	1821
CCB			-0.0001851							08/20/2004	1834
MS	226338-3	M351	0.51382019		0.500	0.03475421	95.8	%	75-125	08/20/2004	1920
CCV		M0388	0.93539102		1.00		93.5	%	90-110	08/20/2004	1925
CCB			-0.0001655							08/20/2004	1937
MSD	226338-3	M351	0.51239704	0.51382019	0.500	0.03475421	95.5	%	75-125	08/20/2004	1941
							0.3	R	20		
CCV		M0388	0.96424503		1.00		96.4	%	90-110	08/20/2004	2021
CCB			-0.0000855							08/20/2004	2034
CCV		M0388	0.95915258		1.00		95.9	%	90-110	08/20/2004	2122
CCB			-0.0001366							08/20/2004	2131

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 226348

Report Date.: 09/13/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B
Method Description.: Metals Analysis (ICAP)
Parameter.....: Nickel (Ni)

Batch.....: 97321
Units.....: mg/L

Analyst...: jem
Test Code.: NI

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.96993941		2.00		98.5	%	90-110	08/20/2004	1624
ICV		M0368	0.98804818		1.00		98.8	%	90-110	08/20/2004	1633
ICV		M0380	1.00120330		1.00		100.1	%	90-110	08/20/2004	1642
ICB			-0.0001832							08/20/2004	1656
ICB			-0.0007345							08/20/2004	1708
ICV		M0393	0.49303757		0.500		98.6	%	90-110	08/20/2004	1712
CCV		M0388	0.96641484		1.00		96.6	%	90-110	08/20/2004	1717
CCB			0.00023340							08/20/2004	1729
MB		3010	-0.0001716							08/20/2004	1809
LCS		M351	0.48636384		0.500		97.3	%	80-120	08/20/2004	1816
CCV		M0388	0.96388511		1.00		96.4	%	90-110	08/20/2004	1821
CCB			-0.0001507							08/20/2004	1834
MS	226338-3	M351	0.49180902		0.500	0.00272162	97.8	%	75-125	08/20/2004	1920
CCV		M0388	0.94225695		1.00		94.2	%	90-110	08/20/2004	1925
CCB			0.00001541							08/20/2004	1937
MSD	226338-3	M351	0.48060646	0.49180902	0.500	0.00272162	95.6	%	75-125	08/20/2004	1941
							2.3	R	20		
CCV		M0388	0.96592698		1.00		96.6	%	90-110	08/20/2004	2021
CCB			0.00024344							08/20/2004	2034
CCV		M0388	0.96295361		1.00		96.3	%	90-110	08/20/2004	2122
CCB			-0.0009457							08/20/2004	2131

Test Method.....: SW-846 6010B
Method Description.: Metals Analysis (ICAP)
Parameter.....: Selenium (Se)

Batch.....: 97321
Units.....: mg/L

Analyst...: jem
Test Code.: SE

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.98161192		2.00		99.1	%	90-110	08/20/2004	1624
ICV		M0368	0.99492513		1.00		99.5	%	90-110	08/20/2004	1633
ICV		M0380	1.00662315		1.00		100.7	%	90-110	08/20/2004	1642
ICB			0.01721727							08/20/2004	1656
ICB			0.00931329							08/20/2004	1708
ICV		M0393	0.49890562		0.500		99.8	%	90-110	08/20/2004	1712
CCV		M0388	0.94525512		1.00		94.5	%	90-110	08/20/2004	1717
CCB			-0.0030606							08/20/2004	1729
MB		3010	-0.0087458							08/20/2004	1809
LCS		M351	0.50416480		0.500		100.8	%	80-120	08/20/2004	1816
CCV		M0388	0.95918335		1.00		95.9	%	90-110	08/20/2004	1821
CCB			-0.0005480							08/20/2004	1834
MS	226338-3	M351	0.49897558		0.500	0.00425541	98.9	%	75-125	08/20/2004	1920
CCV		M0388	0.96498909		1.00		96.5	%	90-110	08/20/2004	1925
CCB			0.00299449							08/20/2004	1937
MSD	226338-3	M351	0.52668586	0.49897558	0.500	0.00425541	104.5	%	75-125	08/20/2004	1941
							5.4	R	20		
CCV		M0388	0.96180783		1.00		96.2	%	90-110	08/20/2004	2021
CCB			-0.0029121							08/20/2004	2034
CCV		M0388	0.92214421		1.00		92.2	%	90-110	08/20/2004	2122
CCB			-0.0051454							08/20/2004	2131

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 226348 Report Date.: 09/13/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 97321 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	0.98497965		1.0		98.5	%	90-110	08/20/2004	1624
ICV		M0369	0.95092021		1.00		95.1	%	90-110	08/20/2004	1638
ICB			0.00228565							08/20/2004	1656
ICB			0.00239516							08/20/2004	1708
ICV		M0393	0.49579164		0.500		99.2	%	90-110	08/20/2004	1712
CCV		M0388	0.47997211		0.50		96.0	%	90-110	08/20/2004	1717
CCB			0.00001195							08/20/2004	1729
MB		3010	-0.0000115							08/20/2004	1809
LCS		M351	0.24087626		0.25		96.4	%	80-120	08/20/2004	1816
CCV		M0388	0.47796049		0.50		95.6	%	90-110	08/20/2004	1821
CCB			-0.0001075							08/20/2004	1834
MS	226338-3	M351	0.24946235		0.25	0.00032405	99.7	%	75-125	08/20/2004	1920
CCV		M0388	0.47100986		0.50		94.2	%	90-110	08/20/2004	1925
CCB			0.00084300							08/20/2004	1937
MSD	226338-3	M351	0.25261460	0.24946235	0.25	0.00032405	100.9	%	75-125	08/20/2004	1941
							1.3	R	20		
CCV		M0388	0.48201281		0.50		96.4	%	90-110	08/20/2004	2021
CCB			0.00088330							08/20/2004	2034
CCV		M0388	0.47755704		0.50		95.5	%	90-110	08/20/2004	2122
CCB			0.00107134							08/20/2004	2131

Test Method.....: SW-846 6010B Batch.....: 97321 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SN
Parameter.....: Tin (Sn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0371	1.96532006		2.00		98.3	%	90-110	08/20/2004	1627
ICV		M0374	0.97477175		1.00		97.5	%	90-110	08/20/2004	1647
ICB			0.00118117							08/20/2004	1656
ICB			0.00217436							08/20/2004	1708
CCV		M0388	1.93698940		2.00		96.8	%	90-110	08/20/2004	1717
CCB			0.00046457							08/20/2004	1729
MB		3010	0.00340548							08/20/2004	1809
LCS		M351	0.99002407		1.00		99.0	%	80-120	08/20/2004	1816
CCV		M0388	1.93314094		2.00		96.7	%	90-110	08/20/2004	1821
CCB			0.00135494							08/20/2004	1834
MS	226338-3	M351	0.97810647		1.00	0.00253223	97.6	%	75-125	08/20/2004	1920
CCV		M0388	1.90442312		2.00		95.2	%	90-110	08/20/2004	1925
CCB			0.00108268							08/20/2004	1937
MSD	226338-3	M351	0.99615564	0.97810647	1.00	0.00253223	99.4	%	75-125	08/20/2004	1941
							1.8	R	20		
CCV		M0388	1.92742168		2.00		96.4	%	90-110	08/20/2004	2021
CCB			-0.0003648							08/20/2004	2034
CCV		M0388	1.90733728		2.00		95.4	%	90-110	08/20/2004	2122
CCB			-0.0003388							08/20/2004	2131

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 226348 Report Date.: 09/13/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 97321 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.97400829		2.00		98.7	%	90-110	08/20/2004	1624
ICV		M0368	0.98285716		1.00		98.3	%	90-110	08/20/2004	1633
ICV		M0380	0.99005074		1.00		99.0	%	90-110	08/20/2004	1642
ICB			-0.0003154							08/20/2004	1656
ICB			-0.0019437							08/20/2004	1708
ICV		M0393	0.48574192		0.500		97.1	%	90-110	08/20/2004	1712
CCV		M0388	0.94940471		1.00		94.9	%	90-110	08/20/2004	1717
CCB			0.00011838							08/20/2004	1729
MB		3010	-0.0001428							08/20/2004	1809
LCS		M351	0.48010378		0.500		96.0	%	80-120	08/20/2004	1816
CCV		M0388	0.94956634		1.00		95.0	%	90-110	08/20/2004	1821
CCB			-0.0000093							08/20/2004	1834
MS	226338-3	M351	0.48541591		0.500	0.00049407	97.0	%	75-125	08/20/2004	1920
CCV		M0388	0.92544451		1.00		92.5	%	90-110	08/20/2004	1925
CCB			-0.0002634							08/20/2004	1937
MSD	226338-3	M351	0.47957381	0.48541591	0.500	0.00049407	95.8	%	75-125	08/20/2004	1941
							1.2	R	20		
CCV		M0388	0.95509049		1.00		95.5	%	90-110	08/20/2004	2021
CCB			-0.0008528							08/20/2004	2034
CCV		M0388	0.94330739		1.00		94.3	%	90-110	08/20/2004	2122
CCB			-0.0004039							08/20/2004	2131

Test Method.....: SW-846 6010B Batch.....: 97321 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: ZN
Parameter.....: Zinc (Zn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.97269430		2.00		98.6	%	90-110	08/20/2004	1624
ICV		M0368	0.98802815		1.00		98.8	%	90-110	08/20/2004	1633
ICV		M0380	1.00155891		1.00		100.2	%	90-110	08/20/2004	1642
ICB			-0.0037700							08/20/2004	1656
ICB			-0.0038993							08/20/2004	1708
ICV		M0393	0.49629362		0.500		99.3	%	90-110	08/20/2004	1712
CCV		M0388	0.95046804		1.00		95.0	%	90-110	08/20/2004	1717
CCB			-0.0031654							08/20/2004	1729
MB		3010	-0.0048155							08/20/2004	1809
LCS		M351	0.47997297		0.500		96.0	%	80-120	08/20/2004	1816
CCV		M0388	0.95098374		1.00		95.1	%	90-110	08/20/2004	1821
CCB			-0.0043574							08/20/2004	1834
MS	226338-3	M351	0.52133780		0.500	0.00902989	102.5	%	75-125	08/20/2004	1920
CCV		M0388	0.92990930		1.00		93.0	%	90-110	08/20/2004	1925
CCB			-0.0041454							08/20/2004	1937
MSD	226338-3	M351	0.51136000	0.52133780	0.500	0.00902989	100.5	%	75-125	08/20/2004	1941
							1.9	R	20		
CCV		M0388	0.95280518		1.00		95.3	%	90-110	08/20/2004	2021
CCB			-0.0032820							08/20/2004	2034
CCV		M0388	0.93862217		1.00		93.9	%	90-110	08/20/2004	2122
CCB			-0.0045002							08/20/2004	2131

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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Original

Subcontract Laboratory

Report

SEVERN TRENT STL

Certificate of Analysis

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ANALYTICAL REPORT

Encycle/Asarco

Lot #: I4H230111

Olga McDonald

STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

SEVERN TRENT LABORATORIES, INC.

Neal J. Salcher
Project Manager

August 30, 2004

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

August 30, 2004

STL LOT NUMBER: **I4H230111**
PO/CONTRACT: 225957

Olga McDonald
STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

Dear Olga McDonald,

This report contains the analytical results for the sample received under chain of custody by Severn Trent Laboratories (STL) on August 21, 2004. This sample is associated with your Encycle/Asarco project.

All applicable quality control procedures met method-specified acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me.

Sincerely,

Neal Salcher
Project Manager

cc: Project File

EXECUTIVE SUMMARY - Detection Highlights

I4H230111

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
226348-1 08/19/04 001				
Cadmium	1.3	1.0	ug/L	SW846 6020

ANALYTICAL METHODS SUMMARY

I4H230111

PARAMETER	ANALYTICAL METHOD
ICP-MS (6020)	SW846 6020
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

I4H230111

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GNN47	001	226348-1	08/19/04	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

I4H230111

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 6020		4238401	4238227
	WATER	SW846 6010B		4240119	4240081

STL CORPUS CHRISTI

Client Sample ID: 226348-1

TOTAL Metals

Lot-Sample #...: I4H230111-001 **Matrix.....:** WATER
Date Sampled...: 08/19/04 **Date Received..:** 08/21/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4238401						
Cadmium	**1.3**	**1.0**	**ug/L**	**SW846 6020**	**08/25-08/27/04**	**GNN471AC**
		Dilution Factor: 1		Analysis Time..: 12:31	MS Run #.....: 4238227	
Antimony	ND	1.0	ug/L	SW846 6020	08/25-08/27/04	GNN471AD
		Dilution Factor: 1		Analysis Time..: 12:31	MS Run #.....: 4238227	
Thallium	ND	1.0	ug/L	SW846 6020	08/25-08/27/04	GNN471AE
		Dilution Factor: 1		Analysis Time..: 12:31	MS Run #.....: 4238227	
Prep Batch #...: 4240119						
Bismuth	ND	0.20	mg/L	SW846 6010B	08/26-08/27/04	GNN471AA
		Dilution Factor: 1		Analysis Time..: 12:20	MS Run #.....: 4240081	

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: I4H230111 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I4H250000-401 **Prep Batch #...:** 4238401						
Antimony	ND	1.0	ug/L	SW846 6020	08/25-08/27/04	GNWXG1AC
		Dilution Factor: 1				
		Analysis Time..: 12:20				
Cadmium	ND	1.0	ug/L	SW846 6020	08/25-08/27/04	GNWXG1AA
		Dilution Factor: 1				
		Analysis Time..: 12:20				
Thallium	ND	1.0	ug/L	SW846 6020	08/25-08/27/04	GNWXG1AD
		Dilution Factor: 1				
		Analysis Time..: 12:20				
MB Lot-Sample #: I4H270000-119 **Prep Batch #...:** 4240119						
Bismuth	ND	0.20	mg/L	SW846 6010B	08/26-08/27/04	GN3DP1AA
		Dilution Factor: 1				
		Analysis Time..: 12:29				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4H230111 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4H250000-401 **Prep Batch #...:** 4238401					
Cadmium	102	(80 - 120)	SW846 6020	08/25-08/27/04	GNWXG1AE
		Dilution Factor: 1	Analysis Time..: 12:26		
Antimony	99	(80 - 120)	SW846 6020	08/25-08/27/04	GNWXG1AF
		Dilution Factor: 1	Analysis Time..: 12:26		
Thallium	107	(80 - 120)	SW846 6020	08/25-08/27/04	GNWXG1AG
		Dilution Factor: 1	Analysis Time..: 12:26		
LCS Lot-Sample#: I4H270000-119 **Prep Batch #...:** 4240119					
Bismuth	94	(80 - 120)	SW846 6010B	08/26-08/27/04	GN3DP1AC
		Dilution Factor: 1	Analysis Time..: 12:15		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4H230111 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4H250000-401 **Prep Batch #...:** 4238401							
Cadmium	50.0	51.2	ug/L	102	SW846 6020	08/25-08/27/04	GNWXG1AE
			Dilution Factor: 1		Analysis Time..: 12:26		
Antimony	50.0	49.3	ug/L	99	SW846 6020	08/25-08/27/04	GNWXG1AF
			Dilution Factor: 1		Analysis Time..: 12:26		
Thallium	50.0	53.3	ug/L	107	SW846 6020	08/25-08/27/04	GNWXG1AG
			Dilution Factor: 1		Analysis Time..: 12:26		
LCS Lot-Sample#: I4H270000-119 **Prep Batch #...:** 4240119							
Bismuth	0.500	0.468	mg/L	94	SW846 6010B	08/26-08/27/04	GN3DP1AC
			Dilution Factor: 1		Analysis Time..: 12:15		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4H230111 **Matrix.....:** WATER
Date Sampled...: 08/16/04 07:00 **Date Received..:** 08/20/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4H230119-001 **Prep Batch #...:** 4238401							
Antimony	102	(80 - 120)			SW846 6020	08/25-08/27/04	GNN6A1A1
	101	(80 - 120)	0.52	(0-20)	SW846 6020	08/25-08/27/04	GNN6A1A2
		Dilution Factor: 1					
		Analysis Time..: 12:54					
		MS Run #.....: 4238227					
Cadmium	103	(80 - 120)			SW846 6020	08/25-08/27/04	GNN6A1AW
	102	(80 - 120)	0.77	(0-20)	SW846 6020	08/25-08/27/04	GNN6A1AX
		Dilution Factor: 1					
		Analysis Time..: 12:54					
		MS Run #.....: 4238227					
Thallium	107	(80 - 120)			SW846 6020	08/25-08/27/04	GNN6A1A4
	107	(80 - 120)	0.22	(0-20)	SW846 6020	08/25-08/27/04	GNN6A1A5
		Dilution Factor: 1					
		Analysis Time..: 12:54					
		MS Run #.....: 4238227					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4H230111 **Matrix.....:** WATER
Date Sampled...: 08/16/04 07:00 **Date Received..:** 08/20/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4H230119-001 **Prep Batch #...:** 4238401									
Antimony									
	ND	50.0	50.8	ug/L	102		SW846 6020	08/25-08/27/04	GNN6A1A1
	ND	50.0	50.5	ug/L	101	0.52	SW846 6020	08/25-08/27/04	GNN6A1A2
			Dilution Factor: 1						
			Analysis Time..: 12:54						
			MS Run #.....: 4238227						
Cadmium									
	ND	50.0	51.3	ug/L	103		SW846 6020	08/25-08/27/04	GNN6A1AW
	ND	50.0	50.9	ug/L	102	0.77	SW846 6020	08/25-08/27/04	GNN6A1AX
			Dilution Factor: 1						
			Analysis Time..: 12:54						
			MS Run #.....: 4238227						
Thallium									
	ND	50.0	53.7	ug/L	107		SW846 6020	08/25-08/27/04	GNN6A1A4
	ND	50.0	53.6	ug/L	107	0.22	SW846 6020	08/25-08/27/04	GNN6A1A5
			Dilution Factor: 1						
			Analysis Time..: 12:54						
			MS Run #.....: 4238227						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4H230111 **Matrix.....:** WATER
Date Sampled...: 08/19/04 **Date Received..:** 08/21/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4H230111-001 **Prep Batch #...:** 4240119							
Bismuth	99	(75 - 125)			SW846 6010B	08/26-08/27/04	GNN471AF
	98	(75 - 125)	0.74	(0-20)	SW846 6010B	08/26-08/27/04	GNN471AG

Dilution Factor: 1
Analysis Time..: 12:35
MS Run #.....: 4240081

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4H230111 **Matrix.....:** WATER
Date Sampled...: 08/19/04 **Date Received..:** 08/21/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4H230111-001 **Prep Batch #...:** 4240119									
Bismuth									
	ND	0.500	0.499	mg/L	99		SW846 6010B	08/26-08/27/04	GNN471AF
	ND	0.500	0.495	mg/L	98	0.74	SW846 6010B	08/26-08/27/04	GNN471AG

Dilution Factor: 1
Analysis Time..: 12:35
MS Run #.....: 4240081

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Report Attachment

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.4, COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.
EPA 340.2, Fluoride: Preliminary Bellack distillation not performed.
EPA 624: The laboratory uses a different desorb time and purge volume than stated in the method.
EPA 8151A: Laboratory utilizes alternate extraction solvent.
Iowa OA1: Benzene, toluene, ethylbenzene and xylenes (BTEX) are not analyzed along with the Gasoline Range Organics if client does not require BTEX.
EPA TO-12: Samples not analyzed in duplicate.
EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

TRRP Reporting Requirements

If this package contains reports requiring TRRP (Texas Risk Reduction Program) reporting criteria, the following information applies.

The REPORTING LIMIT is equivalent to the TRRP acronym MQL (method quantitation limit).
The MDL is equivalent to the TRRP acronym SQL (sample quantitation limit).

SEVERN TRENT STL

CHAIN–OF–CUSTODY ADDENDUM

Lot No: I4H230111

RECEIVED BY: LT

COC NUMBER:

DATE/TIME RECEIVED: 8-21-04/0830

QUOTE/PROFILE: 56827

UNPACKED DATE/TIME: 8-21-04/0850

CLIENT/PROJECT: STL · CC

SAMPLES LOGGED IN: CC

LOG-IN REVIEWED: BA

Number of Shipping Containers Received with Chain of Custody 1

VOC AIR / FILTER SAMPLES ☐ YES **SEE SECTIONS 1.0, 2.0, & 6.0**

1.0 CONTAINERS EXAMINED UPON RECEIPT: LT

Container Sealed: ☑ YES ☐ NO

Custody Seal Signed/Dated: ☑ YES ☐ NO

Custody Seal Present: ☑ YES ☐ NO

Containers checked for radioactivity: ☐ YES ☐ NO ☑ N/A

If seal not intact or Geiger counter reading >0.5 mR/hr, list air bill number of that container(s):

2.0 VOC CANISTERS EXAMINED UPON RECEIPT:

Canister Valves Closed: ☐ YES ☐ NO

Canister Valves Capped: ☐ YES ☐ NO

Valve Cap Tightened Properly: ☐ YES ☐ NO

Packing Material Used: (circle)

None / Absorbent / Paper / Bubble Wrap

Samples Received Match Chain: ☐ YES ☐ NO

Other Equipment Received: ☐ YES ☐ NO

See Additional Comments (Section 5.0 and / or 7.0) ☐ YES ☐ NO

Chain-of-Custody form properly maintained: ☐ YES ☐ NO

Can Size: ☐ 6L ☐ 15L Other

3.0 SAMPLE TEMPERATURE UPON RECEIPT BY: LT **IR THERMOMETER #:** P-4

Temperature of the container(s):

Circle selection: TB = Temp. Blank and/or SC = Sample Container *[acceptable tolerance 4°C ± 2°; (NC, WI: 1-4.4°C)]*

TB SC 2°C	TB SC	TB SC	TB SC	TB SC	TB SC	TB SC	TB SC	TB SC	TB SC

If temperature is outside acceptable tolerance, Project Manager was notified (_____PM). Date: _____ Time: _____

Samples received do not require cooling _____ OK to analyze samples: ☐ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED: ☐ NA ☑ YES **VERIFIED BY:** LT

Base samples are>pH 12: ☐ YES ☐ NO

Acid preserved are<pH 2: ☑ YES ☐ NO

Cyanide samples checked for sulfides: ☐ YES

Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Samples checked for chlorine per specification (N.C.) ☐ YES

Free chlorine present: ☐ YES ☐ NO

If sample preservation is outside acceptable tolerance, Project Manager was notified (_____PM)

Date: _____ Time: _____ ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOA's CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

4.0 CONDITION OF BOTTLES/CONTAINERS

VERIFIED BY: LT

Samples received match COC: ☑ YES ☐ NO
Bottles received intact: ☑ YES ☐ NO
See additional discrepancies/comments section: ☐ YES ☑ NO
Samples received from USDA restricted area: ☐ YES ☑ NO
Chain-of-Custody form properly maintained: ☑ YES ☐ NO
VOA trip blanks included: ☐ YES ☐ NO ☑ N/A

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments

6.0 SHIPPING DOCUMENTATION:

Air/freight bill is available and attached to COC: ☑ YES ☐ NO Air bill #: _____

Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

_____

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____

Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Project Management: _____ Date: _____

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SEVERN TRENT **STL**

14HC50111
STL Austin

No. 25675

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	**BILLING INFORMATION**
ADDRESS:	BILL TO:
	ADDRESS:
PHONE: 361/289-2673	PHONE:
FAX: 361/289-2754	FAX: PO NO:

Same

LAB JOB NO.

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: 6010 (131)	6020 (Sb, Cd, Tl)							REMARKS/PRECAUTIONS
	226348-1	8/17/04		Water	P500	HNO3	1	X	X							Attn: Neal Salcher
																Encycle Pricing

SAMPLER: SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☒ OTHER 7-day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	8/20/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL-CC	TIME 1600	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	**DATE**	**2. RECEIVED BY:**	**DATE**	**3. RECEIVED BY:**	**DATE**
SIGNATURE:	8-21-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Luke Turner/STL Au	TIME 0830	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

RUSH TURNAROUND MAY REQUIRE SURCHARGE

2nd 8/21 Good

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

SEVERN TRENT **STL**

I4H230111
STL Austin

No. 2567

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	**BILLING INFORMATION**
ADDRESS: 5	BILL TO:
	ADDRESS:
	Same
PHONE: 361/289-2673	PHONE:
FAX: 361/289-2754	FAX: PO NO:

LAB JOB NO.

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	6010 (Bi)	6020 (Sb, Cd, Tl)							REMARKS/PRECAUTIONS
	226348-1	8/19/04		Water	P500	HNO3	1	X	X							Attn: Neal Salcher
																Encycle Pricing

ANALYSIS/METHOD REQUEST

SAMPLER: SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☒ OTHER 7-day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	8/20/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL-CC	TIME 1600	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	8-21-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Luke Townsend/STL Aus	TIME 0830	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

2nd 8/21/8-21 Good

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

End of

Subcontract Laboratory

Report(s)

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 09/13/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:

The test results in this report meet all NELAP requirements for parameters for which accreditation is held. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND = Not detected at a value greater than the reporting limit
TNTC = Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB Method Blank
ICB Initial Calibration Blank
CCB Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS Method (Matrix) Spike
MSD Method (Matrix) Spike Duplicate
PDS Post Digestion/Distillation Spike
SB Spiked Blank
SBD Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS Laboratory Control Standard
RS Reference Standard
ICV Initial Calibration Verification Standard

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 09/13/2004

CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

4.1

226348

Project Number/Name: ENCYCLE RCRA CLOSURE

Project Location: C.C. TX

Laboratory: STL

Project Manager: KEN BRANDNER

Sampler(s)/Affiliation: J. CLEMENTS / ARCADIS

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	CYANIDE (w/ NaOH)	TOTAL Se, As, Ba, Be, Cd, Co, Cr, Pb, Mn, Hg, Ni, Se, Ag, Tl, Sn, V, Zn (2 LIPT POLY w/ HNO3)					Remarks	Total
FACILITY 2 PERMITTED FLOOR	L	8-19-04		1	2					NEED LOW DETECTION LIMITS	3

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 3

Relinquished by: J. CLEMENTS	Organization: ARCADIS	Date 8/19/04	Time 1645	Seal Intact? Yes No N/A
Received by: [signature]	Organization: STL-CC	Date 8/19/04	Time 1645	
Relinquished by:	Organization:	Date / /	Time	Seal Intact? Yes No N/A
Received by:	Organization:	Date / /	Time	

Special Instructions/Remarks:

RESULTS TO K. BRANDNER (ARCADIS) & R. MORGAN (ENCYCLE)

NEED LOW DETECT LIMITS

Delivery Method: ☐ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

SEVERN TRENT STL

RECEIVED
FEB 16 2004
BY:

ANALYTICAL REPORT

JOB NUMBER: 222789

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 02/12/2004

Signature

Date 2/12/04

Name: Chip Meador

Title: Laboratory Director

E-Mail: cmeador@stl-inc.com

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 47

SEVERN TRENT STL

CASE NARRATIVE

Job Number 222789

February 2, 2004

Cyanide Analysis

Sample 222789-1 was analyzed for cyanide using EPA Method 9010B and 9012. The percent recovery results for the matrix spikes associated with this sample were below the acceptance criteria. The associated LCS was within acceptable limits and it appears the out of control data are due to the sample matrix.

Please contact me at 361-289-2673 or omcdonald@stl-inc.com if you have any questions regarding this report or if we can be of further assistance.

Olga Verónica McDonald

Olga Verónica McDonald
Project Manager

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 02/12/2004

Job Number.: 222789
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000084
Customer Project ID....: ENCYCLE TEXAS TRUST FUND
Project Description....: Project - OVM

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
222789-1	FAC 3-PERMITTED FLOOR	Water	01/20/2004	16:00	01/20/2004	16:40
222789-2	FAC 3-PERMITTED FLOOR DUP	Water	01/20/2004	16:00	01/20/2004	16:40
222789-3	FIELD BLANK	Water	01/20/2004	16:20	01/20/2004	16:40
222789-4	TANK 695096	Water	01/20/2004	16:25	01/20/2004	16:40

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 222789

Date: 02/12/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE TEXAS TRUST ATTN: Richard Marcus

Customer Sample ID: FAC 3-PERMITTED FLOOR
Date Sampled.....: 01/20/2004
Time Sampled.....: 16:00
Sample Matrix.....: Water

Laboratory Sample ID: 222789-1
Date Received.....: 01/20/2004
Time Received.....: 16:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	01/23/04	edr
EPA 9010B/9012	Cyanide, Total	<0.02	0.02	mg/L	01/22/04	dev
SW-846 6010B	Arsenic (As), Total	<0.01	0.01	mg/L	01/21/04	jem
SW-846 6010B	Barium (Ba), Total	0.10	0.01	mg/L	01/21/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	01/21/04	jem
SW-846 6010B	Cobalt (Co), Total	<0.01	0.01	mg/L	01/21/04	jem
SW-846 6010B	Copper (Cu), Total	0.04	0.01	mg/L	01/21/04	jem
SW-846 6010B	Lead (Pb), Total	0.09	0.01	mg/L	01/21/04	jem
SW-846 6010B	Manganese (Mn), Total	0.01	0.01	mg/L	01/21/04	jem
SW-846 6010B	Nickel (Ni), Total	0.09	0.01	mg/L	01/21/04	jem
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	01/21/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	01/21/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	01/21/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	01/21/04	jem
SW-846 6010B	Zinc (Zn), Total	0.17	0.01	mg/L	01/21/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			01/21/04	hmz

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 222789

Date: 02/12/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE TEXAS TRUST ATTN: Richard Marcus

Customer Sample ID: FAC 3-PERMITTED FLOOR DUP
Date Sampled.....: 01/20/2004
Time Sampled.....: 16:00
Sample Matrix.....: Water

Laboratory Sample ID: 222789-2
Date Received.....: 01/20/2004
Time Received.....: 16:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	01/23/04	edr
EPA 9010B/9012	Cyanide, Total	<0.02	0.02	mg/L	01/22/04	dev
SW-846 6010B	Arsenic (As), Total	<0.01	0.01	mg/L	01/21/04	jem
SW-846 6010B	Barium (Ba), Total	0.11	0.01	mg/L	01/21/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	01/21/04	jem
SW-846 6010B	Cobalt (Co), Total	<0.01	0.01	mg/L	01/21/04	jem
SW-846 6010B	Copper (Cu), Total	0.05	0.01	mg/L	01/21/04	jem
SW-846 6010B	Lead (Pb), Total	0.13	0.01	mg/L	01/21/04	jem
W-846 6010B	Manganese (Mn), Total	0.01	0.01	mg/L	01/21/04	jem
SW-846 6010B	Nickel (Ni), Total	0.11	0.01	mg/L	01/21/04	jem
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	01/21/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	01/21/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	01/21/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	01/21/04	jem
SW-846 6010B	Zinc (Zn), Total	0.21	0.01	mg/L	01/21/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			01/21/04	hmz

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 222789

Date: 02/12/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE TEXAS TRUST ATTN: Richard Marcus

Customer Sample ID: FIELD BLANK
Date Sampled.....: 01/20/2004
Time Sampled.....: 16:20
Sample Matrix.....: Water

Laboratory Sample ID: 222789-3
Date Received.....: 01/20/2004
Time Received.....: 16:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	01/23/04	edr
EPA 9010B/9012	Cyanide, Total	<0.02	0.02	mg/L	01/22/04	dev
SW-846 6010B	Arsenic (As), Total	<0.01	0.01	mg/L	01/22/04	jem
SW-846 6010B	Barium (Ba), Total	<0.01	0.01	mg/L	01/22/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	01/22/04	jem
SW-846 6010B	Cobalt (Co), Total	<0.01	0.01	mg/L	01/22/04	jem
SW-846 6010B	Copper (Cu), Total	<0.01	0.01	mg/L	01/22/04	jem
SW-846 6010B	Lead (Pb), Total	<0.01	0.01	mg/L	01/22/04	jem
SW-846 6010B	Manganese (Mn), Total	<0.01	0.01	mg/L	01/22/04	jem
SW-846 6010B	Nickel (Ni), Total	<0.01	0.01	mg/L	01/22/04	jem
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	01/22/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	01/22/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	01/22/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	01/22/04	jem
SW-846 6010B	Zinc (Zn), Total	<0.01	0.01	mg/L	01/22/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			01/21/04	hmz

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 222789

Date: 02/12/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE TEXAS TRUST ATTN: Richard Marcus

Customer Sample ID: TANK 695096
Date Sampled.....: 01/20/2004
Time Sampled.....: 16:25
Sample Matrix.....: Water

Laboratory Sample ID: 222789-4
Date Received.....: 01/20/2004
Time Received.....: 16:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	01/23/04	edr
SW-846 6010B	Arsenic (As), Total	<0.01	0.01	mg/L	01/22/04	jem
SW-846 6010B	Barium (Ba), Total	0.10	0.01	mg/L	01/22/04	jem
SW-846 6010B	Cadmium (Cd), Total	<0.01	0.01	mg/L	01/22/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	01/22/04	jem
SW-846 6010B	Lead (Pb), Total	0.02	0.01	mg/L	01/22/04	jem
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	01/22/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	01/22/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			01/21/04	hmz

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222789 | Report Date.: 02/12/2004

CUSTOMER: Encycle Texas, Inc. | PROJECT: ENCYCLE TEXAS TRUST FUND | ATTN: Richard Marcus

Test Method.....: SW-846 7470A | Batch.....: 89364 | Analyst...: edr
Method Description.: Mercury (CVAA) | Units.....: mg/L | Test Code.: HG
Parameter.....: Mercury (Hg)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M012304HG	0.00477		0.005000		95.4	%	90-110	01/23/2004	1416
ICB			-0.000080							01/23/2004	1420
LCS		M012304LG	0.00505		0.0050		101.0	%	85-115	01/23/2004	1423
MB			-0.000054							01/23/2004	1425
MS	222759-2	M012304HG	0.00473		0.005000	-0.000016	94.9	%	85-115	01/23/2004	1437
MSD	222759-2	M012304HG	0.00484	0.00473	0.005000	-0.000016	97.1	%	85-115	01/23/2004	1439
							2.3	R	20		
CCV		M012304HG	0.00483		0.005000		96.6	%	80-120	01/23/2004	1450
CCB			-0.000001							01/23/2004	1453
CCV		M012304HG	0.00480		0.005000		96.0	%	80-120	01/23/2004	1514
CCB			0.000028							01/23/2004	1518
LCS		M012304HG	0.00497		0.005000		99.4	%	85-115	01/23/2004	1520
MB			-0.000057							01/23/2004	1521
MS	222801-1	M012304HG	0.00502		0.005000	-0.000044	101.3	%	85-115	01/23/2004	1527
MSD	222801-1	M012304HG	0.00479	0.00502	0.005000	-0.000044	96.7	%	85-115	01/23/2004	1528
							4.7	R	20		
CCV		M012304HG	0.00466		0.005000		93.2	%	80-120	01/23/2004	1535
CCB			-0.000031							01/23/2004	1539

Test Method.....: EPA 9010B/9012A | Batch.....: 89346 | Analyst...: dev
Method Description.: Cyanide (Colorimetric, Automated) | Units.....: mg/L | Test Code.: CNT
Parameter.....: Cyanide, Total

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB		012204	0.0012							01/22/2004	1445
CCV		CN40122E	0.3735		0.397		94.1	%	80-120	01/22/2004	1450
MB		012204	0.0036							01/22/2004	1455
LCS		CN40122P	0.0383		0.0478		80.1	%	76-117	01/22/2004	1500
LCS		CN40122Q	0.0766		0.0957		80.0	%	76-117	01/22/2004	1505
LCS		CN40122R	0.1477		0.191		77.3	%	76-117	01/22/2004	1510
MS	222789-1	CN40122O	0.0388		0.0478	0.0044	72.0	%	75-125	01/22/2004	1520
MSD	222789-1	CN40122O	0.0345	0.0388	0.0478	0.0044	63.0	%	75-125	01/22/2004	1525
							11.7	R	20		
CCB		012204	0.0017							01/22/2004	1540
CCV		CN40122E	0.3832		0.397		96.5	%	80-120	01/22/2004	1545

Test Method.....: SW-846 6010B | Batch.....: 89271 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.97552130		2.00		98.8	%	90-110	01/21/2004	1054
ICV		M0368	1.04209233		1.00		104.2	%	90-110	01/21/2004	1112
ICV		M0356	1.04361366		1.00		104.4	%	90-110	01/21/2004	1127
CCB			-0.0028906							01/21/2004	1141
ICB			-0.0035428							01/21/2004	1151
CCV		M0379	1.03070021		1.00		103.1	%	90-110	01/21/2004	1207
CCB			-0.0027333							01/21/2004	1218
[illegible]		M0379	1.01315820		1.00		101.3	%	90-110	01/21/2004	1307

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222789 Report Date.: 02/12/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE TEXAS TRUST FUND ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 89271 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0004598							01/21/2004	1316
CCV		M0379	1.00894149		1.00		100.9	%	90-110	01/21/2004	1410
CCB			-0.0005716							01/21/2004	1421
MB		3050.	-0.0004502							01/21/2004	1628
LCS		M348	0.55164329		0.500		110.3	%	82-110	01/21/2004	1632
PDS	222714-9	M348C	0.76524236		1.00	0.10678136	65.8	%	75-125	01/21/2004	1646
PSD	222714-9	M348C	0.78709580	0.76524236	1.00	0.10678136	68.0	%	75-125	01/21/2004	1652
							2.8	R	20		
CCV		M0379	1.01929231		1.00		101.9	%	90-110	01/21/2004	1710
CCB			0.00018803							01/21/2004	1719
MB		3050.	-0.0017544							01/21/2004	1757
LCS		M348	0.54474101		0.500		108.9	%	85-110	01/21/2004	1800
CCV		M0379	0.99116009		1.00		99.1	%	90-110	01/21/2004	1810
CCB			0.00205800							01/21/2004	1819
PDS	222710-3	M348C	0.85470295		1.00	0.03007716	82.5	%	75-125	01/21/2004	1839
PSD	222710-3	M348C	0.85174119	0.85470295	1.00	0.03007716	82.2	%	75-125	01/21/2004	1845
							0.3	R	20		
CCV		M0379	0.99087405		1.00		99.1	%	90-110	01/21/2004	1909
CCB			0.00200112							01/21/2004	1920
CCV		M0379	0.99489444		1.00		99.5	%	90-110	01/21/2004	2007
CCB			-0.0033862							01/21/2004	2016
MB		3010	-0.0002342							01/21/2004	2023
LCS		M348	0.45590050		0.500		91.2	%	85-110	01/21/2004	2030
RIN			-0.0029730							01/21/2004	2036
MS	222684-1	M348	0.55239075		0.500	0.00380496	109.7	%	75-125	01/21/2004	2054
MSD	222684-1	M348	0.53804001	0.55239075	0.500	0.00380496	106.8	%	75-125	01/21/2004	2100
							2.6	R	20		
CCV		M0379	0.99542676		1.00		99.5	%	90-110	01/21/2004	2115
CCB			-0.0000488							01/21/2004	2126
CCV		M0379	0.99672442		1.00		99.7	%	90-110	01/21/2004	2217
CCB			0.00105419							01/21/2004	2226
MB		3010	-0.0004172							01/21/2004	2233
LCS		M348	0.51878273		0.500		103.8	%	85-110	01/21/2004	2241
CCV		M0379	0.99844440		1.00		99.8	%	90-110	01/21/2004	2313
CCB			-0.0003698							01/21/2004	2324
MS	222775-3	M348	0.51596580		0.500	-0.0030984	103.8	%	75-125	01/21/2004	2339
MSD	222775-3	M348	0.51213538	0.51596580	0.500	-0.0030984	103.0	%	75-125	01/21/2004	2344
							0.7	R	20		
CCV		M0379	1.00938860		1.00		100.9	%	90-110	01/22/2004	0012
CCB			-0.0003426							01/22/2004	0023

Test Method.....: SW-846 6010B Batch.....: 89271 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.99050321		2.00		99.5	%	90-110	01/21/2004	1054
ICV		M0369	1.00679996		1.00		100.7	%	90-110	01/21/2004	1118
CCB			0.00007694							01/21/2004	1141
[illegible]			-0.0000536							01/21/2004	1151
[illegible]		M0379	1.03622727		1.00		103.6	%	90-110	01/21/2004	1207

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222789 Report Date.: 02/12/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE TEXAS TRUST FUND ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 89271 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0012256							01/21/2004	1218
CCV		M0379	1.03337114		1.00		103.3	%	90-110	01/21/2004	1307
CCB			-0.0012657							01/21/2004	1316
CCV		M0379	1.01089745		1.00		101.1	%	90-110	01/21/2004	1410
CCB			-0.0010562							01/21/2004	1421
MB		3050.	0.00943975							01/21/2004	1628
LCS		M348	0.55001707		0.500		110.0	%	89-110	01/21/2004	1632
CCV		M0379	1.03447243		1.00		103.4	%	90-110	01/21/2004	1710
CCB			-0.0008349							01/21/2004	1719
MB		3050.	0.00388047							01/21/2004	1757
LCS		M348	0.53090671		0.500		106.2	%	90-110	01/21/2004	1800
CCV		M0379	1.00463527		1.00		100.5	%	90-110	01/21/2004	1810
CCB			-0.0009750							01/21/2004	1819
CCV		M0379	1.00575414		1.00		100.6	%	90-110	01/21/2004	1909
CCB			-0.0008638							01/21/2004	1920
CCV		M0379	1.00260209		1.00		100.3	%	90-110	01/21/2004	2007
CCB			-0.0007154							01/21/2004	2016
MB		3010	-0.0009869							01/21/2004	2023
LCS		M348	0.50646286		0.500		101.3	%	90-110	01/21/2004	2030
RIN			-0.0015650							01/21/2004	2036
MS	222684-1	M348	0.53785102		0.500	0.02795681	102.0	%	75-125	01/21/2004	2054
MSD	222684-1	M348	0.53450418	0.53785102	0.500	0.02795681	101.3	%	75-125	01/21/2004	2100
							0.6	R	20		
CCV		M0379	1.00057999		1.00		100.1	%	90-110	01/21/2004	2115
CCB			-0.0011729							01/21/2004	2126
CCV		M0379	1.00267688		1.00		100.3	%	90-110	01/21/2004	2217
CCB			-0.0010482							01/21/2004	2226
MB		3010	-0.0011487							01/21/2004	2233
LCS		M348	0.50065963		0.500		100.1	%	90-110	01/21/2004	2241
CCV		M0379	1.00322454		1.00		100.3	%	90-110	01/21/2004	2313
CCB			-0.0008427							01/21/2004	2324
MS	222775-3	M348	0.53763243		0.500	0.03283282	101.0	%	75-125	01/21/2004	2339
MSD	222775-3	M348	0.52842931	0.53763243	0.500	0.03283282	99.1	%	75-125	01/21/2004	2344
							1.7	R	20		
CCV		M0379	1.00556940		1.00		100.6	%	90-110	01/22/2004	0012
CCB			-0.0010105							01/22/2004	0023

Test Method.....: SW-846 6010B Batch.....: 89271 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CD
Parameter.....: Cadmium (Cd)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.99810559		2.00		99.9	%	90-110	01/21/2004	1054
ICV		M0368	1.03592832		1.00		103.6	%	90-110	01/21/2004	1112
ICV		M0356	1.01936636		1.00		101.9	%	90-110	01/21/2004	1127
CCB			-0.0000891							01/21/2004	1141
ICB			-0.0001732							01/21/2004	1151
CCV		M0379	1.03355737		1.00		103.4	%	90-110	01/21/2004	1207
CCB			-0.0001426							01/21/2004	1218
CCV		M0379	1.02934003		1.00		102.9	%	90-110	01/21/2004	1307
CCB			-0.0000640							01/21/2004	1316

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222789 Report Date.: 02/12/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE TEXAS TRUST FUND ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 89271 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CD
Parameter.....: Cadmium (Cd)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0379	1.00325891		1.00		100.3	%	90-110	01/21/2004	1410
CCB			-0.0000696							01/21/2004	1421
MB		3050.	0.00465909							01/21/2004	1628
LCS		M348	0.51285492		0.500		102.6	%	85-110	01/21/2004	1632
PDS	222714-9	M348C	0.63040613		1.00	0.00644478	62.4	%	75-125	01/21/2004	1646
PSD	222714-9	M348C	0.66074606	0.63040613	1.00	0.00644478	65.4	%	75-125	01/21/2004	1652
							4.7	R	20		
CCV		M0379	0.99571174		1.00		99.6	%	90-110	01/21/2004	1710
CCB			0.00011670							01/21/2004	1719
MB		3050.	0.00020800							01/21/2004	1757
LCS		M348	0.50193365		0.500		100.4	%	87-110	01/21/2004	1800
CCV		M0379	0.97024689		1.00		97.0	%	90-110	01/21/2004	1810
CCB			0.00012575							01/21/2004	1819
PDS	222710-3	M348C	0.80540180		1.00	0.00485503	80.1	%	75-125	01/21/2004	1839
PSD	222710-3	M348C	0.79478303	0.80540180	1.00	0.00485503	79.0	%	75-125	01/21/2004	1845
							1.3	R	20		
CCV		M0379	0.97270153		1.00		97.3	%	90-110	01/21/2004	1909
CCB			0.00009589							01/21/2004	1920
CCV		M0379	0.97047904		1.00		97.0	%	90-110	01/21/2004	2007
CCB			0.00009934							01/21/2004	2016
MB		3010	0.00004153							01/21/2004	2023
LCS		M348	0.48994290		0.500		98.0	%	87-110	01/21/2004	2030
RIN			0.00003873							01/21/2004	2036
MS	222684-1	M348	0.49887006		0.500	-0.0001723	99.8	%	75-125	01/21/2004	2054
MSD	222684-1	M348	0.49281250	0.49887006	0.500	-0.0001723	98.6	%	75-125	01/21/2004	2100
							1.2	R	20		
CCV		M0379	0.97782181		1.00		97.8	%	90-110	01/21/2004	2115
CCB			0.00016385							01/21/2004	2126
CCV		M0379	0.98903274		1.00		98.9	%	90-110	01/21/2004	2217
CCB			0.00025092							01/21/2004	2226
MB		3010	0.00007789							01/21/2004	2233
LCS		M348	0.49035487		0.500		98.1	%	87-110	01/21/2004	2241
CCV		M0379	1.00397320		1.00		100.4	%	90-110	01/21/2004	2313
CCB			-0.0000553							01/21/2004	2324
MS	222775-3	M348	0.50366589		0.500	-0.0001388	100.8	%	75-125	01/21/2004	2339
MSD	222775-3	M348	0.49710464	0.50366589	0.500	-0.0001388	99.4	%	75-125	01/21/2004	2344
							1.3	R	20		
CCV		M0379	1.01650419		1.00		101.7	%	90-110	01/22/2004	0012
CCB			-0.0000023							01/22/2004	0023

Test Method.....: SW-846 6010B Batch.....: 89271 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.99805806		2.00		99.9	%	90-110	01/21/2004	1054
ICV		M0368	1.03883777		1.00		103.9	%	90-110	01/21/2004	1112
ICV		M0356	1.02853975		1.00		102.9	%	90-110	01/21/2004	1127
ICB			-0.0006570							01/21/2004	1141
ICB			-0.0005815							01/21/2004	1151
CCV		M0379	1.03138932		1.00		103.1	%	90-110	01/21/2004	1207

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222789 Report Date.: 02/12/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE TEXAS TRUST FUND ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 89271 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0005033							01/21/2004	1218
CCV		M0379	1.02970277		1.00		103.0	%	90-110	01/21/2004	1307
CCB			-0.0006032							01/21/2004	1316
CCV		M0379	1.00303771		1.00		100.3	%	90-110	01/21/2004	1410
CCB			-0.0004765							01/21/2004	1421
MB		3050.	0.00027344							01/21/2004	1628
LCS		M348	0.53763528		0.500		107.5	%	89-110	01/21/2004	1632
PDS	222714-9	M348C	0.79762793		1.00	0.13859116	65.9	%	75-125	01/21/2004	1646
PSD	222714-9	M348C	0.81947205	0.79762793	1.00	0.13859116	68.1	%	75-125	01/21/2004	1652
							2.7	R	20		
CCV		M0379	1.02955907		1.00		103.0	%	90-110	01/21/2004	1710
CCB			-0.0004754							01/21/2004	1719
MB		3050.	0.00113832							01/21/2004	1757
LCS		M348	0.53000840		0.500		106.0	%	90-110	01/21/2004	1800
CCV		M0379	1.00412586		1.00		100.4	%	90-110	01/21/2004	1810
CCB			-0.0000998							01/21/2004	1819
PDS	222710-3	M348C	0.97480990		1.00	0.13467991	84.0	%	75-125	01/21/2004	1839
PSD	222710-3	M348C	0.96718629	0.97480990	1.00	0.13467991	83.3	%	75-125	01/21/2004	1845
							0.8	R	20		
CCV		M0379	1.00746989		1.00		100.7	%	90-110	01/21/2004	1909
CCB			-0.0003475							01/21/2004	1920
CCV		M0379	1.00365562		1.00		100.4	%	90-110	01/21/2004	2007
CCB			-0.0003211							01/21/2004	2016
MB		3010	-0.0004875							01/21/2004	2023
LCS		M348	0.51113050		0.500		102.2	%	90-110	01/21/2004	2030
RIN			-0.0009771							01/21/2004	2036
MS	222684-1	M348	0.52373628		0.500	0.00033497	104.7	%	75-125	01/21/2004	2054
MSD	222684-1	M348	0.51910196	0.52373628	0.500	0.00033497	103.8	%	75-125	01/21/2004	2100
							0.9	R	20		
CCV		M0379	1.00479015		1.00		100.5	%	90-110	01/21/2004	2115
CCB			-0.0002634							01/21/2004	2126
CCV		M0379	1.01245643		1.00		101.2	%	90-110	01/21/2004	2217
CCB			-0.0001381							01/21/2004	2226
MB		3010	-0.0004961							01/21/2004	2233
LCS		M348	0.50561887		0.500		101.1	%	90-110	01/21/2004	2241
CCV		M0379	1.02071683		1.00		102.1	%	90-110	01/21/2004	2313
CCB			-0.0002740							01/21/2004	2324
MS	222775-3	M348	0.51360716		0.500	-0.0002581	102.8	%	75-125	01/21/2004	2339
MSD	222775-3	M348	0.50705040	0.51360716	0.500	-0.0002581	101.5	%	75-125	01/21/2004	2344
							1.3	R	20		
CCV		M0379	1.02330452		1.00		102.3	%	90-110	01/22/2004	0012
CCB			-0.0003752							01/22/2004	0023

Test Method.....: SW-846 6010B Batch.....: 89271 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
LCS		M0370	1.98580498		2.00		99.3	%	90-110	01/21/2004	1054
CCV		M0368	1.02807283		1.00		102.8	%	90-110	01/21/2004	1112
CCV		M0356	1.03747499		1.00		103.7	%	90-110	01/21/2004	1127

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222789 Report Date.: 02/12/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE TEXAS TRUST FUND ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 89271 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0001417							01/21/2004	1141
ICB			0.00005021							01/21/2004	1151
CCV		M0379	1.01580162		1.00		101.6	%	90-110	01/21/2004	1207
CCB			0.00006889							01/21/2004	1218
CCV		M0379	1.00792856		1.00		100.8	%	90-110	01/21/2004	1307
CCB			-0.0001237							01/21/2004	1316
CCV		M0379	0.99571531		1.00		99.6	%	90-110	01/21/2004	1410
CCB			-0.0000778							01/21/2004	1421
MB		3050.	0.00025396							01/21/2004	1628
LCS		M348	0.53266328		0.500		106.5	%	90-110	01/21/2004	1632
PDS	222714-9	M348C	0.69583235		1.00	0.06431390	63.2	%	75-125	01/21/2004	1646
PSD	222714-9	M348C	0.72149701	0.69583235	1.00	0.06431390	65.7	%	75-125	01/21/2004	1652
							3.6	R	20		
CCV		M0379	1.01536347		1.00		101.5	%	90-110	01/21/2004	1710
CCB			0.00016882							01/21/2004	1719
MB		3050.	0.00037104							01/21/2004	1757
LCS		M348	0.52534662		0.500		105.1	%	90-110	01/21/2004	1800
CCV		M0379	0.98850240		1.00		98.9	%	90-110	01/21/2004	1810
CCB			0.00010056							01/21/2004	1819
PDS	222710-3	M348C	0.86366224		1.00	0.04850343	81.5	%	75-125	01/21/2004	1839
PSD	222710-3	M348C	0.85568839	0.86366224	1.00	0.04850343	80.7	%	75-125	01/21/2004	1845
							0.9	R	20		
CCV		M0379	0.99254954		1.00		99.3	%	90-110	01/21/2004	1909
CCB			0.00003008							01/21/2004	1920
CCV		M0379	0.98877549		1.00		98.9	%	90-110	01/21/2004	2007
CCB			0.00036006							01/21/2004	2016
MB		3010	-0.0000731							01/21/2004	2023
LCS		M348	0.50350159		0.500		100.7	%	90-110	01/21/2004	2030
RIN			-0.0000588							01/21/2004	2036
MS	222684-1	M348	0.48272698		0.500	0.00043301	96.5	%	75-125	01/21/2004	2054
MSD	222684-1	M348	0.48058470	0.48272698	0.500	0.00043301	96.0	%	75-125	01/21/2004	2100
							0.4	R	20		
CCV		M0379	0.97923699		1.00		97.9	%	90-110	01/21/2004	2115
CCB			0.00029510							01/21/2004	2126
CCV		M0379	0.98355245		1.00		98.4	%	90-110	01/21/2004	2217
CCB			0.00042346							01/21/2004	2226
MB		3010	0.00009696							01/21/2004	2233
LCS		M348	0.49470191		0.500		98.9	%	90-110	01/21/2004	2241
CCV		M0379	0.99647679		1.00		99.6	%	90-110	01/21/2004	2313
CCB			-0.0004819							01/21/2004	2324
MS	222775-3	M348	0.50530669		0.500	0.00068992	100.9	%	75-125	01/21/2004	2339
MSD	222775-3	M348	0.49821688	0.50530669	0.500	0.00068992	99.5	%	75-125	01/21/2004	2344
							1.4	R	20		
CCV		M0379	1.00288207		1.00		100.3	%	90-110	01/22/2004	0012
CCB			0.00031132							01/22/2004	0023

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222789 Report Date.: 02/12/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE TEXAS TRUST FUND ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 89271 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CU
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.99896745		2.00		99.9	%	90-110	01/21/2004	1054
ICV		M0368	1.04572821		1.00		104.6	%	90-110	01/21/2004	1112
ICV		M0356	1.03452221		1.00		103.5	%	90-110	01/21/2004	1127
CCB			0.00090568							01/21/2004	1141
ICB			-0.0003599							01/21/2004	1151
CCV		M0379	1.06065768		1.00		106.1	%	90-110	01/21/2004	1207
CCB			0.00704480							01/21/2004	1218
CCV		M0379	1.06078105		1.00		106.1	%	90-110	01/21/2004	1307
CCB			0.00521944							01/21/2004	1316
CCV		M0379	1.03842603		1.00		103.8	%	90-110	01/21/2004	1410
CCB			0.00298205							01/21/2004	1421
MB		3050	0.00832197							01/21/2004	1625
LCS		M348	0.59649463		0.500		119.3	%	80-120	01/21/2004	1632
PDS	222714-9	M348C	0.86311642		1.00	0.13944391	72.4	%	75-125	01/21/2004	1646
PSD	222714-9	M348C	0.89477021	0.86311642	1.00	0.13944391	75.5	%	75-125	01/21/2004	1652
							3.6	R	20		
CCV		M0379	1.06351693		1.00		106.4	%	90-110	01/21/2004	1710
CCB			0.00303402							01/21/2004	1719
MB		3050.	-0.0045780							01/21/2004	1757
LCS		M348	0.55024016		0.500		110.0	%	89-112	01/21/2004	1800
CCV		M0379	1.03376409		1.00		103.4	%	90-110	01/21/2004	1810
CCB			0.00358362							01/21/2004	1819
PDS	222710-3	M348C	1.02500007		1.00	0.10626879	91.9	%	75-125	01/21/2004	1839
PSD	222710-3	M348C	1.01449484	1.02500007	1.00	0.10626879	90.8	%	75-125	01/21/2004	1845
							1.0	R	20		
CCV		M0379	1.03979520		1.00		104.0	%	90-110	01/21/2004	1909
CCB			0.00336904							01/21/2004	1920
CCV		M0379	1.03716508		1.00		103.7	%	90-110	01/21/2004	2007
CCB			0.00393025							01/21/2004	2016
MB		3010	0.00441090							01/21/2004	2023
LCS		M348	0.51705215		0.500		103.4	%	89-112	01/21/2004	2030
RIN			-0.0103976							01/21/2004	2036
MS	222684-1	M348	0.50566483		0.500	-0.0147492	104.1	%	75-125	01/21/2004	2054
MSD	222684-1	M348	0.50015245	0.50566483	0.500	-0.0147492	103.0	%	75-125	01/21/2004	2100
							1.1	R	20		
CCV		M0379	1.04043405		1.00		104.0	%	90-110	01/21/2004	2115
CCB			0.00662828							01/21/2004	2126
CCV		M0379	1.03228141		1.00		103.2	%	90-110	01/21/2004	2217
CCB			0.00470593							01/21/2004	2226
MB		3010	0.00599899							01/21/2004	2233
LCS		M348	0.51681645		0.500		103.4	%	89-112	01/21/2004	2241
CCV		M0379	1.03840786		1.00		103.8	%	90-110	01/21/2004	2313
CCB			0.00707109							01/21/2004	2324
MS	222775-3	M348	0.56170164		0.500	-0.0092880	114.2	%	75-125	01/21/2004	2339
MSD	222775-3	M348	0.55858742	0.56170164	0.500	-0.0092880	113.6	%	75-125	01/21/2004	2344
							0.6	R	20		
CCV		M0379	1.03054583		1.00		103.1	%	90-110	01/22/2004	0012
CCB			0.00453942							01/22/2004	0023

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222789 Report Date.: 02/12/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE TEXAS TRUST FUND ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 89271 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.99737648		2.00		99.9	%	90-110	01/21/2004	1054
ICV		M0368	1.05015718		1.00		105.0	%	90-110	01/21/2004	1112
ICV		M0356	1.03157579		1.00		103.2	%	90-110	01/21/2004	1127
CCB			-0.0019173							01/21/2004	1141
ICB			-0.0017525							01/21/2004	1151
CCV		M0379	1.03542538		1.00		103.5	%	90-110	01/21/2004	1207
CCB			-0.0012147							01/21/2004	1218
CCV		M0379	1.01991382		1.00		102.0	%	90-110	01/21/2004	1307
CCB			-0.0011928							01/21/2004	1316
CCV		M0379	1.00685144		1.00		100.7	%	90-110	01/21/2004	1410
CCB			-0.0011992							01/21/2004	1421
MB		3050.	0.00436155							01/21/2004	1628
LCS		M348	0.52142974		0.500		104.3	%	86-110	01/21/2004	1632
PDS	222714-9	M348C	0.84186239		1.00	0.21315256	62.9	%	75-125	01/21/2004	1646
PSD	222714-9	M348C	0.86661753	0.84186239	1.00	0.21315256	65.3	%	75-125	01/21/2004	1652
							2.9	R	20		
CCV		M0379	1.01385234		1.00		101.4	%	90-110	01/21/2004	1710
CCB			-0.0017324							01/21/2004	1719
MB		3050.	-0.0019714							01/21/2004	1757
LCS		M348	0.51354353		0.500		102.7	%	87-112	01/21/2004	1800
CCV		M0379	0.98135249		1.00		98.1	%	90-110	01/21/2004	1810
CCB			-0.0018064							01/21/2004	1819
PDS	222710-3	M348C	0.97905452		1.00	0.17181066	80.7	%	75-125	01/21/2004	1839
PSD	222710-3	M348C	0.96681033	0.97905452	1.00	0.17181066	79.5	%	75-125	01/21/2004	1845
							1.3	R	20		
CCV		M0379	0.99054620		1.00		99.1	%	90-110	01/21/2004	1909
CCB			-0.0006781							01/21/2004	1920
CCV		M0379	0.98864626		1.00		98.9	%	90-110	01/21/2004	2007
CCB			-0.0012507							01/21/2004	2016
MB		3010	-0.0016628							01/21/2004	2023
LCS		M348	0.50348240		0.500		100.7	%	87-112	01/21/2004	2030
RIN			-0.0013982							01/21/2004	2036
MS	222684-1	M348	0.50366515		0.500	-0.0009889	100.9	%	75-125	01/21/2004	2054
MSD	222684-1	M348	0.49244483	0.50366515	0.500	-0.0009889	98.7	%	75-125	01/21/2004	2100
							2.3	R	20		
CCV		M0379	0.99093469		1.00		99.1	%	90-110	01/21/2004	2115
CCB			-0.0006276							01/21/2004	2126
CCV		M0379	1.00215170		1.00		100.2	%	90-110	01/21/2004	2217
CCB			-0.0002936							01/21/2004	2226
MB		3010	-0.0018021							01/21/2004	2233
LCS		M348	0.50686325		0.500		101.4	%	87-112	01/21/2004	2241
CCV		M0379	1.01719054		1.00		101.7	%	90-110	01/21/2004	2313
CCB			0.00136687							01/21/2004	2324
MS	222775-3	M348	0.51404080		0.500	-0.0016682	103.1	%	75-125	01/21/2004	2339
MSD	222775-3	M348	0.50929619	0.51404080	0.500	-0.0016682	102.2	%	75-125	01/21/2004	2344
							0.9	R	20		
CCV		M0379	1.02980415		1.00		103.0	%	90-110	01/22/2004	0012
CCB			-0.0008630							01/22/2004	0023

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222789 Report Date.: 02/12/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE TEXAS TRUST FUND ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 89271 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.99680279		2.00		99.8	%	90-110	01/21/2004	1054
ICV		M0368	1.01999889		1.00		102.0	%	90-110	01/21/2004	1112
ICV		M0356	0.96656092		1.00		96.7	%	90-110	01/21/2004	1127
CCB			-0.0002977							01/21/2004	1141
ICB			-0.0003011							01/21/2004	1151
CCV		M0379	1.03093463		1.00		103.1	%	90-110	01/21/2004	1207
CCB			-0.0003623							01/21/2004	1218
CCV		M0379	1.02751467		1.00		102.8	%	90-110	01/21/2004	1307
CCB			-0.0003352							01/21/2004	1316
CCV		M0379	1.00273433		1.00		100.3	%	90-110	01/21/2004	1410
CCB			-0.0004170							01/21/2004	1421
MB		3050.	0.00171299							01/21/2004	1628
LCS		M348	0.53685174		0.500		107.4	%	88-110	01/21/2004	1632
PDS	222714-9	M348C	3.12251723		1.00	2.51080493	61.2	%	75-125	01/21/2004	1646
PSD	222714-9	M348C	3.14211036	3.12251723	1.00	2.51080493	63.1	%	75-125	01/21/2004	1652
							0.6	R	20		
CCV		M0379	1.02884871		1.00		102.9	%	90-110	01/21/2004	1710
CCB			-0.0003004							01/21/2004	1719
		3050.	0.00251813							01/21/2004	1757
LCS		M348	0.52670228		0.500		105.3	%	88-110	01/21/2004	1800
CCV		M0379	1.00156777		1.00		100.2	%	90-110	01/21/2004	1810
CCB			-0.0002179							01/21/2004	1819
PDS	222710-3	M348C	4.02584325		1.00	3.26735494	75.8	%	75-125	01/21/2004	1839
PSD	222710-3	M348C	4.00689274	4.02584325	1.00	3.26735494	74.0	%	75-125	01/21/2004	1845
							0.5	R	20		
CCV		M0379	1.00450472		1.00		100.5	%	90-110	01/21/2004	1909
CCB			-0.0001825							01/21/2004	1920
CCV		M0379	0.99896437		1.00		99.9	%	90-110	01/21/2004	2007
CCB			-0.0002794							01/21/2004	2016
MB		3010	-0.0003056							01/21/2004	2023
LCS		M348	0.50699885		0.500		101.4	%	88-110	01/21/2004	2030
RIN			-0.0001023							01/21/2004	2036
MS	222684-1	M348	0.50921539		0.500	0.00002668	101.8	%	75-125	01/21/2004	2054
MSD	222684-1	M348	0.50535012	0.50921539	0.500	0.00002668	101.1	%	75-125	01/21/2004	2100
							0.8	R	20		
CCV		M0379	0.99777576		1.00		99.8	%	90-110	01/21/2004	2115
CCB			-0.0002204							01/21/2004	2126
CCV		M0379	0.99872236		1.00		99.9	%	90-110	01/21/2004	2217
CCB			-0.0001048							01/21/2004	2226
MB		3010	-0.0001130							01/21/2004	2233
LCS		M348	0.50060646		0.500		100.1	%	88-110	01/21/2004	2241
CCV		M0379	1.00712116		1.00		100.7	%	90-110	01/21/2004	2313
CCB			0.00000128							01/21/2004	2324
MS	222775-3	M348	0.50951520		0.500	0.00022068	101.9	%	75-125	01/21/2004	2339
MSD	222775-3	M348	0.50485329	0.50951520	0.500	0.00022068	100.9	%	75-125	01/21/2004	2344
							0.9	R	20		
CCV		M0379	1.00728830		1.00		100.7	%	90-110	01/22/2004	0012
CCB			-0.0001307							01/22/2004	0023

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222789 Report Date.: 02/12/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE TEXAS TRUST FUND ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 89271 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00556695		2.00		100.3	%	90-110	01/21/2004	1054
ICV		M0368	1.04471276		1.00		104.5	%	90-110	01/21/2004	1112
ICV		M0356	1.04102285		1.00		104.1	%	90-110	01/21/2004	1127
CCB			-0.0001419							01/21/2004	1141
ICB			0.00021329							01/21/2004	1151
CCV		M0379	1.03958568		1.00		104.0	%	90-110	01/21/2004	1207
CCB			0.00085582							01/21/2004	1218
CCV		M0379	1.03670240		1.00		103.7	%	90-110	01/21/2004	1307
CCB			0.00050903							01/21/2004	1316
CCV		M0379	1.01035251		1.00		101.0	%	90-110	01/21/2004	1410
CCB			0.00081933							01/21/2004	1421
MB		3050.	-0.0007708							01/21/2004	1628
LCS		M348	0.53612886		0.500		107.2	%	89-110	01/21/2004	1632
PDS	222714-9	M348C	0.77271823		1.00	0.13800824	63.5	%	75-125	01/21/2004	1646
PSD	222714-9	M348C	0.80215711	0.77271823	1.00	0.13800824	66.4	%	75-125	01/21/2004	1652
							3.7	R	20		
CCV		M0379	1.03607121		1.00		103.6	%	90-110	01/21/2004	1710
CCB			0.00085537							01/21/2004	1719
3		3050.	-0.0009310							01/21/2004	1757
LCS		M348	0.52815697		0.500		105.6	%	90-112	01/21/2004	1800
CCV		M0379	1.00911273		1.00		100.9	%	90-110	01/21/2004	1810
CCB			0.00101169							01/21/2004	1819
PDS	222710-3	M348C	0.92723278		1.00	0.10182093	82.5	%	75-125	01/21/2004	1839
PSD	222710-3	M348C	0.91673770	0.92723278	1.00	0.10182093	81.5	%	75-125	01/21/2004	1845
							1.1	R	20		
CCV		M0379	1.01180842		1.00		101.2	%	90-110	01/21/2004	1909
CCB			0.00142647							01/21/2004	1920
CCV		M0379	1.00836724		1.00		100.8	%	90-110	01/21/2004	2007
CCB			0.00102687							01/21/2004	2016
MB		3010	0.00099314							01/21/2004	2023
LCS		M348	0.51299695		0.500		102.6	%	90-112	01/21/2004	2030
RIN			-0.0012240							01/21/2004	2036
MS	222684-1	M348	0.48166410		0.500	0.00112534	96.1	%	75-125	01/21/2004	2054
MSD	222684-1	M348	0.48022101	0.48166410	0.500	0.00112534	95.8	%	75-125	01/21/2004	2100
							0.3	R	20		
CCV		M0379	1.01086211		1.00		101.1	%	90-110	01/21/2004	2115
CCB			0.00096253							01/21/2004	2126
CCV		M0379	1.01969559		1.00		102.0	%	90-110	01/21/2004	2217
CCB			0.00075102							01/21/2004	2226
MB		3010	0.00125738							01/21/2004	2233
LCS		M348	0.50920036		0.500		101.8	%	90-112	01/21/2004	2241
CCV		M0379	1.03160532		1.00		103.2	%	90-110	01/21/2004	2313
CCB			0.00089007							01/21/2004	2324
MS	222775-3	M348	0.52118190		0.500	0.00562996	103.1	%	75-125	01/21/2004	2339
MSD	222775-3	M348	0.51378484	0.52118190	0.500	0.00562996	101.6	%	75-125	01/21/2004	2344
							1.4	R	20		
CCV		M0379	1.03645774		1.00		103.6	%	90-110	01/22/2004	0012
CCB			0.00093653							01/22/2004	0023

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222789 Report Date.: 02/12/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE TEXAS TRUST FUND ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 89271 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00368757		2.00		100.2	%	90-110	01/21/2004	1054
ICV		M0368	1.01329561		1.00		101.3	%	90-110	01/21/2004	1112
ICV		M0356	0.99098409		1.00		99.1	%	90-110	01/21/2004	1127
CCB			0.00267216							01/21/2004	1141
ICB			0.00701098							01/21/2004	1151
CCV		M0379	1.01317461		1.00		101.3	%	90-110	01/21/2004	1207
CCB			0.00030583							01/21/2004	1218
CCV		M0379	1.01315002		1.00		101.3	%	90-110	01/21/2004	1307
CCB			0.00484674							01/21/2004	1316
CCV		M0379	0.99186281		1.00		99.2	%	90-110	01/21/2004	1410
CCB			0.00063303							01/21/2004	1421
MB		3050.	-0.0020247							01/21/2004	1628
LCS		M348	0.52035708		0.500		104.1	%	80-110	01/21/2004	1632
PDS	222714-9	M348C	0.59170953		1.00	-0.0867483	67.8	%	75-125	01/21/2004	1646
PSD	222714-9	M348C	0.60944268	0.59170953	1.00	-0.0867483	69.6	%	75-125	01/21/2004	1652
							3.0	R	20		
CCV		M0379	1.01169982		1.00		101.2	%	90-110	01/21/2004	1710
CCB			-0.0051796							01/21/2004	1719
		3050.	0.00415784							01/21/2004	1757
LCS		M348	0.50297648		0.500		100.6	%	82-111	01/21/2004	1800
CCV		M0379	0.98017845		1.00		98.0	%	90-110	01/21/2004	1810
CCB			0.00001369							01/21/2004	1819
PDS	222710-3	M348C	0.79457045		1.00	-0.0495442	84.4	%	75-125	01/21/2004	1839
PSD	222710-3	M348C	0.77520296	0.79457045	1.00	-0.0495442	82.5	%	75-125	01/21/2004	1845
							2.5	R	20		
CCV		M0379	0.98137549		1.00		98.1	%	90-110	01/21/2004	1909
CCB			0.00510172							01/21/2004	1920
CCV		M0379	0.98317723		1.00		98.3	%	90-110	01/21/2004	2007
CCB			-0.0034012							01/21/2004	2016
MB		3010	-0.0010778							01/21/2004	2023
LCS		M348	0.49283880		0.500		98.6	%	82-111	01/21/2004	2030
RIN			0.00919611							01/21/2004	2036
MS	222684-1	M348	0.50785104		0.500	-0.0134383	104.3	%	75-125	01/21/2004	2054
MSD	222684-1	M348	0.48967575	0.50785104	0.500	-0.0134383	100.6	%	75-125	01/21/2004	2100
							3.6	R	20		
CCV		M0379	0.97561319		1.00		97.6	%	90-110	01/21/2004	2115
CCB			0.00499129							01/21/2004	2126
CCV		M0379	0.99193455		1.00		99.2	%	90-110	01/21/2004	2217
CCB			0.00148866							01/21/2004	2226
MB		3010	0.00069344							01/21/2004	2233
LCS		M348	0.48073357		0.500		96.1	%	82-111	01/21/2004	2241
CCV		M0379	0.99899799		1.00		99.9	%	90-110	01/21/2004	2313
CCB			0.00864220							01/21/2004	2324
MS	222775-3	M348	0.49152762		0.500	0.00608395	97.1	%	75-125	01/21/2004	2339
MSD	222775-3	M348	0.49266239	0.49152762	0.500	0.00608395	97.3	%	75-125	01/21/2004	2344
							0.2	R	20		
CCV		M0379	1.01410391		1.00		101.4	%	90-110	01/22/2004	0012
CCB			-0.0010716							01/22/2004	0018

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222789

Report Date.: 02/12/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE TEXAS TRUST FUND ATTN: Richard Marcus

Test Method.....: SW-846 6010B
Method Description.: Metals Analysis (ICAP)
Parameter.....: Silver (Ag)

Batch.....: 89271
Units.....: mg/L

Analyst...: jem
Test Code.: AG

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	0.99571190		1.0		99.6	%	90-110	01/21/2004	1054
ICV		M0369	1.03270964		1.00		103.3	%	90-110	01/21/2004	1118
CCB			-0.0007147							01/21/2004	1141
ICB			0.00011870							01/21/2004	1151
CCV		M0379	0.51027890		0.50		102.1	%	90-110	01/21/2004	1207
CCB			-0.0005644							01/21/2004	1218
CCV		M0379	0.50975744		0.50		102.0	%	90-110	01/21/2004	1307
CCB			-0.0003104							01/21/2004	1316
CCV		M0379	0.49995899		0.50		100.0	%	90-110	01/21/2004	1410
CCB			-0.0003956							01/21/2004	1421
MB		3050.	0.00020706							01/21/2004	1628
LCS		M348	0.26181524		0.25		104.7	%	81-110	01/21/2004	1632
PDS	222714-9	M348C	0.32960739		0.50	-0.0025183	66.4	%	75-125	01/21/2004	1646
PSD	222714-9	M348C	0.19994819	0.32960739	0.50	-0.0025183	40.5	%	75-125	01/21/2004	1652
							49.0	R	20		
CCV		M0379	0.50680903		0.50		101.4	%	90-110	01/21/2004	1710
CCB			-0.0002316							01/21/2004	1719
[illegible]		3050.	-0.0008176							01/21/2004	1757
[illegible]S		M348	0.25548531		0.25		102.2	%	87-110	01/21/2004	1800
CCV		M0379	0.49641803		0.50		99.3	%	90-110	01/21/2004	1810
CCB			-0.0010549							01/21/2004	1819
PDS	222710-3	M348C	0.52140008		0.50	-0.0012153	104.5	%	75-125	01/21/2004	1839
PSD	222710-3	M348C	0.50118313	0.52140008	0.50	-0.0012153	100.5	%	75-125	01/21/2004	1845
							4.0	R	20		
CCV		M0379	0.49707301		0.50		99.4	%	90-110	01/21/2004	1909
CCB			-0.0003227							01/21/2004	1920
CCV		M0379	0.49542984		0.50		99.1	%	90-110	01/21/2004	2007
CCB			0.00029221							01/21/2004	2016
MB		3010	-0.0006198							01/21/2004	2023
LCS		M348	0.25099666		0.25		100.4	%	87-110	01/21/2004	2030
RIN			-0.0002493							01/21/2004	2036
MS	222684-1	M348	0.09743145		0.25	-0.0011071	39.4	%	75-125	01/21/2004	2054
MSD	222684-1	M348	0.10412069	0.09743145	0.25	-0.0011071	42.1	%	75-125	01/21/2004	2100
							6.6	R	20		
CCV		M0379	0.49221744		0.50		98.4	%	90-110	01/21/2004	2115
CCB			-0.0003966							01/21/2004	2126
CCV		M0379	0.49166395		0.50		98.3	%	90-110	01/21/2004	2217
CCB			0.00065302							01/21/2004	2226
MB		3010	0.00027305							01/21/2004	2233
CCV		M0379	0.49970785		0.50		99.9	%	90-110	01/21/2004	2313
CCB			-0.0005023							01/21/2004	2324
MS	222775-3	M348	0.24498228		0.25	-0.0004590	98.2	%	75-125	01/21/2004	2339
MSD	222775-3	M348	0.21789800	0.24498228	0.25	-0.0004590	87.3	%	75-125	01/21/2004	2344
							11.7	R	20		
CCV		M0379	0.49628871		0.50		99.3	%	90-110	01/22/2004	0012
CCB			-0.0000087							01/22/2004	0023

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222789 Report Date.: 02/12/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE TEXAS TRUST FUND ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 89271 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SN
Parameter.....: Tin (Sn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0371	2.03775490		2.00		101.9	%	90-110	01/21/2004	1057
ICV		M0374	0.99795800		1.00		99.8	%	90-110	01/21/2004	1136
CCB			0.00649154							01/21/2004	1141
ICB			0.00535615							01/21/2004	1151
CCV		M0379	2.06548756		2.00		103.3	%	90-110	01/21/2004	1207
CCB			0.00237316							01/21/2004	1218
CCV		M0379	2.02720614		2.00		101.4	%	90-110	01/21/2004	1307
CCB			-0.0012976							01/21/2004	1316
CCV		M0379	1.99702985		2.00		99.9	%	90-110	01/21/2004	1410
CCB			0.00135901							01/21/2004	1421
MB		3050	-0.0005319							01/21/2004	1625
LCS		M348	1.08072543		1.00		108.1	%	82-111	01/21/2004	1632
PDS	222714-9	M348C	1.13774889		2.00	-0.0117884	57.5	%	75-125	01/21/2004	1646
PSD	222714-9	M348C	1.38800384	1.13774889	2.00	-0.0117884	70.0	%	75-125	01/21/2004	1652
							19.8	R	20		
CCV		M0379	2.01777392		2.00		100.9	%	90-110	01/21/2004	1710
CCB			0.00060736							01/21/2004	1719
B		3050.	0.00273801							01/21/2004	1757
CS		M348	1.06176845		1.00		106.2	%	83-118	01/21/2004	1800
CCV		M0379	1.94833978		2.00		97.4	%	90-110	01/21/2004	1810
CCB			0.00020316							01/21/2004	1819
PDS	222710-3	M348C	1.81277022		2.00	-0.0116911	91.2	%	75-125	01/21/2004	1839
PSD	222710-3	M348C	1.84212626	1.81277022	2.00	-0.0116911	92.7	%	75-125	01/21/2004	1845
							1.6	R	20		
CCV		M0379	1.96307841		2.00		98.2	%	90-110	01/21/2004	1909
CCB			0.00057050							01/21/2004	1920
CCV		M0379	1.95689721		2.00		97.8	%	90-110	01/21/2004	2007
CCB			0.00053752							01/21/2004	2016
MB		3010	-0.0035323							01/21/2004	2023
LCS		M348	0.99495905		1.00		99.5	%	83-118	01/21/2004	2030
RIN			-0.0082278							01/21/2004	2036
MS	222684-1	M348	1.00972944		1.00	-0.0242343	103.4	%	75-125	01/21/2004	2054
MSD	222684-1	M348	1.01089798	1.00972944	1.00	-0.0242343	103.5	%	75-125	01/21/2004	2100
							0.1	R	20		
CCV		M0379	1.97756597		2.00		98.9	%	90-110	01/21/2004	2115
CCB			0.00434584							01/21/2004	2126
CCV		M0379	1.98648139		2.00		99.3	%	90-110	01/21/2004	2217
CCB			0.00171838							01/21/2004	2226
MB		3010	-0.0041916							01/21/2004	2233
LCS		M348	1.01179054		1.00		101.2	%	83-118	01/21/2004	2241
CCV		M0379	1.99873856		2.00		99.9	%	90-110	01/21/2004	2313
CCB			0.00224020							01/21/2004	2324
MS	222775-3	M348	1.02471456		1.00	-0.0070668	103.2	%	75-125	01/21/2004	2339
MSD	222775-3	M348	1.02077094	1.02471456	1.00	-0.0070668	102.8	%	75-125	01/21/2004	2344
							0.4	R	20		
CCV		M0379	2.02322768		2.00		101.2	%	90-110	01/22/2004	0012
CCB			0.00164137							01/22/2004	0023

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222789 Report Date.: 02/12/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE TEXAS TRUST FUND ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 89271 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00040512		2.00		100.0	%	90-110	01/21/2004	1054
ICV		M0368	1.00258407		1.00		100.3	%	90-110	01/21/2004	1112
ICV		M0356	0.98972892		1.00		99.0	%	90-110	01/21/2004	1127
CCB			-0.0005902							01/21/2004	1141
ICB			-0.0006307							01/21/2004	1151
CCV		M0379	1.00100208		1.00		100.1	%	90-110	01/21/2004	1207
CCB			-0.0002668							01/21/2004	1218
CCV		M0379	1.00169799		1.00		100.2	%	90-110	01/21/2004	1307
CCB			0.00018312							01/21/2004	1316
CCV		M0379	0.97779857		1.00		97.8	%	90-110	01/21/2004	1410
CCB			-0.0001497							01/21/2004	1421
MB		3050.	-0.0005513							01/21/2004	1628
LCS		M348	0.51811887		0.500		103.6	%	87-110	01/21/2004	1632
PDS	222714-9	M348C	0.90001363		1.00	0.25162876	64.8	%	75-125	01/21/2004	1646
PSD	222714-9	M348C	0.92202068	0.90001363	1.00	0.25162876	67.0	%	75-125	01/21/2004	1652
							2.4	R	20		
CCV		M0379	1.00106091		1.00		100.1	%	90-110	01/21/2004	1710
CCB			-0.0000441							01/21/2004	1719
		3050.	-0.0007328							01/21/2004	1757
LCS		M348	0.51089340		0.500		102.2	%	89-110	01/21/2004	1800
CCV		M0379	0.97783639		1.00		97.8	%	90-110	01/21/2004	1810
CCB			-0.0003744							01/21/2004	1819
PDS	222710-3	M348C	1.00296246		1.00	0.18196810	82.1	%	75-125	01/21/2004	1839
PSD	222710-3	M348C	0.99474275	1.00296246	1.00	0.18196810	81.3	%	75-125	01/21/2004	1845
							0.8	R	20		
CCV		M0379	0.97927129		1.00		97.9	%	90-110	01/21/2004	1909
CCB			-0.0002682							01/21/2004	1920
CCV		M0379	0.97623004		1.00		97.6	%	90-110	01/21/2004	2007
CCB			0.00080846							01/21/2004	2016
MB		3010	-0.0002450							01/21/2004	2023
LCS		M348	0.49252415		0.500		98.5	%	89-110	01/21/2004	2030
RIN			-0.0001372							01/21/2004	2036
MS	222684-1	M348	0.51734975		0.500	0.00189151	103.1	%	75-125	01/21/2004	2054
MSD	222684-1	M348	0.51277138	0.51734975	0.500	0.00189151	102.2	%	75-125	01/21/2004	2100
							0.9	R	20		
CCV		M0379	0.97166129		1.00		97.2	%	90-110	01/21/2004	2115
CCB			-0.0002309							01/21/2004	2126
CCV		M0379	0.97448363		1.00		97.4	%	90-110	01/21/2004	2217
CCB			0.00022665							01/21/2004	2226
MB		3010	0.00012892							01/21/2004	2233
LCS		M348	0.48622433		0.500		97.2	%	89-110	01/21/2004	2241
CCV		M0379	0.98361398		1.00		98.4	%	90-110	01/21/2004	2313
CCB			0.00000387							01/21/2004	2324
MS	222775-3	M348	0.48885912		0.500	-0.0002356	97.8	%	75-125	01/21/2004	2339
MSD	222775-3	M348	0.48467452	0.48885912	0.500	-0.0002356	97.0	%	75-125	01/21/2004	2344
							0.9	R	20		
CCV		M0379	0.97884235		1.00		97.9	%	90-110	01/22/2004	0012
CCB			-0.0005879							01/22/2004	0023

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222789 Report Date.: 02/12/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE TEXAS TRUST FUND ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 89271 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: ZN
Parameter.....: Zinc (Zn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.99887217		2.00		99.9	%	90-110	01/21/2004	1054
ICV		M0368	1.02667736		1.00		102.7	%	90-110	01/21/2004	1112
ICV		M0356	1.02071653		1.00		102.1	%	90-110	01/21/2004	1127
CCB			-0.0011434							01/21/2004	1141
ICB			-0.0012170							01/21/2004	1151
CCV		M0379	1.02736329		1.00		102.7	%	90-110	01/21/2004	1207
CCB			0.00067905							01/21/2004	1218
CCV		M0379	1.02531573		1.00		102.5	%	90-110	01/21/2004	1307
CCB			0.00078659							01/21/2004	1316
CCV		M0379	0.99743953		1.00		99.7	%	90-110	01/21/2004	1410
CCB			0.00034181							01/21/2004	1421
MB		3050	0.00048943							01/21/2004	1625
LCS		M348	0.51680973		0.500		103.4	%	85-110	01/21/2004	1632
PDS	222714-9	M348C	1.09260998		1.00	0.47214288	62.0	%	75-125	01/21/2004	1646
PSD	222714-9	M348C	1.11997031	1.09260998	1.00	0.47214288	64.8	%	75-125	01/21/2004	1652
							2.5	R	20		
CCV		M0379	0.98741367		1.00		98.7	%	90-110	01/21/2004	1710
CCB			0.00108162							01/21/2004	1719
MB		3050.	0.03176787							01/21/2004	1757
LCS		M348	0.51412040		0.500		102.8	%	86-110	01/21/2004	1800
CCV		M0379	0.96015005		1.00		96.0	%	90-110	01/21/2004	1810
CCB			0.00080984							01/21/2004	1819
PDS	222710-3	M348C	1.13335578		1.00	0.34852970	78.5	%	75-125	01/21/2004	1839
PSD	222710-3	M348C	1.12530736	1.13335578	1.00	0.34852970	77.7	%	75-125	01/21/2004	1845
							0.7	R	20		
CCV		M0379	0.96126513		1.00		96.1	%	90-110	01/21/2004	1909
CCB			0.00052500							01/21/2004	1920
CCV		M0379	0.95654323		1.00		95.7	%	90-110	01/21/2004	2007
CCB			0.00057934							01/21/2004	2016
MB		3010	-0.0018066							01/21/2004	2023
LCS		M348	0.48337463		0.500		96.7	%	86-110	01/21/2004	2030
RIN			-0.0019040							01/21/2004	2036
MS	222684-1	M348	0.50285976		0.500	0.00343024	99.9	%	75-125	01/21/2004	2054
MSD	222684-1	M348	0.49850947	0.50285976	0.500	0.00343024	99.0	%	75-125	01/21/2004	2100
							0.9	R	20		
CCV		M0379	0.97837492		1.00		97.8	%	90-110	01/21/2004	2115
CCB			0.00025556							01/21/2004	2126
CCV		M0379	0.99054885		1.00		99.1	%	90-110	01/21/2004	2217
CCB			-0.0004253							01/21/2004	2226
MB		3010	-0.0025430							01/21/2004	2233
LCS		M348	0.48697366		0.500		97.4	%	86-110	01/21/2004	2241
CCV		M0379	1.00494585		1.00		100.5	%	90-110	01/21/2004	2313
CCB			0.00036885							01/21/2004	2324
MS	222775-3	M348	0.50117666		0.500	-0.0007987	100.4	%	75-125	01/21/2004	2339
MSD	222775-3	M348	0.49546575	0.50117666	0.500	-0.0007987	99.3	%	75-125	01/21/2004	2344
							1.1	R	20		
CCV		M0379	1.00770860		1.00		100.8	%	90-110	01/22/2004	0012
CCB			-0.0000891							01/22/2004	0023

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

1733 North Padre Island Drive • Corpus Christi, TX 78408 • Tel: 361 289 2673 • Fax: 361 289 2471 • www.stl-inc.com

Original

Subcontract Laboratory

Report

SEVERN TRENT STL

Certificate of Analysis

STL Austin • 14046 Summit Drive, Austin, TX 78728 • Tel 512 244 0855 • Fax 512 244 0160 • *www.stl-inc.com*

ANALYTICAL REPORT

Encycle/Asarco

Lot #: I4A220292

Olga McDonald

STL Corpus Christi
~~1733 North Padre Island Drive~~
Corpus Christi, TX 78408

SEVERN TRENT LABORATORIES, INC.

Neal J. Salcher
Project Manager

February 6, 2004

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

February 6, 2004

STL LOT NUMBER: **I4A220292**

Olga McDonald
STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

Dear Olga McDonald,

This report contains the analytical results for the three samples received under chain of custody by Severn Trent Laboratories (STL) on January 22, 2004. These samples are associated with your Encycle/Asarco project.

All applicable quality control procedures met method-specified acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me.

Sincerely,

Neal Salcher
Project Manager

cc: Project File

EXECUTIVE SUMMARY - Detection Highlights

I4A220292

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
222789-1 01/20/04 16:00 001				
Cadmium	83.3	1.0	ug/L	SW846 6020
Antimony	3.2 J	1.0	ug/L	SW846 6020
Thallium	2.6	1.0	ug/L	SW846 6020
222789-2 01/20/04 16:00 002				
Cadmium	57.0	1.0	ug/L	SW846 6020
Antimony	2.1 J	1.0	ug/L	SW846 6020
Thallium	1.6	1.0	ug/L	SW846 6020

ANALYTICAL METHODS SUMMARY

I4A220292

PARAMETER	ANALYTICAL METHOD
ICP-MS (6020)	SW846 6020
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

I4A220292

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
F8ENV	001	222789-1	01/20/04	16:0
F8EN1	002	222789-2	01/20/04	16:0
F8EN4	003	222789-3	01/20/04	16:2

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

I4A220292

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 6020		4026449	
	WATER	SW846 6010B		4026449	4026199
002	WATER	SW846 6020		4026449	
	WATER	SW846 6010B		4026449	4026199
003	WATER	SW846 6020		4026449	
	WATER	SW846 6010B		4026449	4026199

STL CORPUS CHRISTI

Client Sample ID: 222789-1

TOTAL Metals

Lot-Sample #...: I4A220292-001 Matrix.....: WATER
Date Sampled...: 01/20/04 16:00 Date Received..: 01/22/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4026449						
Bismuth	ND	0.20	mg/L	SW846 6010B	01/26-01/27/04	F8ENV1AE
		Dilution Factor: 1		Analysis Time..: 14:42	MS Run #.....: 4026199	
Cadmium	**83.3**	**1.0**	**ug/L**	**SW846 6020**	**01/26-01/29/04**	**F8ENV1AA**
		Dilution Factor: 1		Analysis Time..: 19:51	MS Run #.....:	
Antimony	**3.2 J**	**1.0**	**ug/L**	**SW846 6020**	**01/26-01/29/04**	**F8ENV1AC**
		Dilution Factor: 1		Analysis Time..: 19:51	MS Run #.....:	
Thallium	**2.6**	**1.0**	**ug/L**	**SW846 6020**	**01/26-01/29/04**	**F8ENV1AD**
		Dilution Factor: 1		Analysis Time..: 19:51	MS Run #.....:	

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL CORPUS CHRISTI

Client Sample ID: 222789-2

TOTAL Metals

Lot-Sample #...: I4A220292-002 Matrix.....: WATER
Date Sampled...: 01/20/04 16:00 Date Received..: 01/22/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4026449						
Bismuth	ND	0.20	mg/L	SW846 6010B	01/26-01/27/04	F8EN11AE
		Dilution Factor: 1		Analysis Time..: 04:47	MS Run #.....: 4026199	
Cadmium	**57.0**	**1.0**	**ug/L**	**SW846 6020**	**01/26-01/29/04**	**F8EN11AA**
		Dilution Factor: 1		Analysis Time..: 19:58	MS Run #.....:	
Antimony	**2.1 J**	**1.0**	**ug/L**	**SW846 6020**	**01/26-01/29/04**	**F8EN11AC**
		Dilution Factor: 1		Analysis Time..: 19:58	MS Run #.....:	
Thallium	**1.6**	**1.0**	**ug/L**	**SW846 6020**	**01/26-01/29/04**	**F8EN11AD**
		Dilution Factor: 1		Analysis Time..: 19:58	MS Run #.....:	

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL CORPUS CHRISTI

Client Sample ID: 222789-3

TOTAL Metals

Lot-Sample #...: I4A220292-003 Matrix.....: WATER
Date Sampled...: 01/20/04 16:25 Date Received..: 01/22/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4026449						
Bismuth	ND	0.20	mg/L	SW846 6010B	01/26-01/27/04	F8EN41AE
		Dilution Factor: 1		Analysis Time..: 14:52	MS Run #.....: 4026199	
Cadmium	ND	1.0	ug/L	SW846 6020	01/26-01/29/04	F8EN41AA
		Dilution Factor: 1		Analysis Time..: 20:04	MS Run #.....:	
Antimony	ND	1.0	ug/L	SW846 6020	01/26-01/29/04	F8EN41AC
		Dilution Factor: 1		Analysis Time..: 20:04	MS Run #.....:	
Thallium	ND	1.0	ug/L	SW846 6020	01/26-01/29/04	F8EN41AD
		Dilution Factor: 1		Analysis Time..: 20:04	MS Run #.....:	

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: I4A220292 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I4A260000-449 Prep Batch #...: 4026449						
Antimony	**1.1**	**1.0**	**ug/L**	**SW846 6020**	**01/26-01/29/04**	**F8KCH1AJ**
		Dilution Factor: 1				
		Analysis Time..: 19:39				
Bismuth	ND	0.20	mg/L	SW846 6010B	01/26-01/27/04	F8KCH1AD
		Dilution Factor: 1				
		Analysis Time..: 14:27				
Cadmium	ND	1.0	ug/L	SW846 6020	01/26-01/29/04	F8KCH1AH
		Dilution Factor: 1				
		Analysis Time..: 19:39				
Thallium	ND	1.0	ug/L	SW846 6020	01/26-01/29/04	F8KCH1AK
		Dilution Factor: 1				
		Analysis Time..: 19:39				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4A220292 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4A260000-449 **Prep Batch #...:** 4026449					
Bismuth	102	(80 - 120)	SW846 6010B	01/26-01/27/04	F8KCH1AF
		Dilution Factor: 1	Analysis Time..: 14:32		
Cadmium	1010 N	(80 - 120)	SW846 6020	01/26-01/29/04	F8KCH1AL
		Dilution Factor: 1	Analysis Time..: 19:45		
Antimony	1010 N	(80 - 120)	SW846 6020	01/26-01/29/04	F8KCH1AM
		Dilution Factor: 1	Analysis Time..: 19:45		
Thallium	999 N	(80 - 120)	SW846 6020	01/26-01/29/04	F8KCH1AN
		Dilution Factor: 1	Analysis Time..: 19:45		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4A220292 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4A260000-449 Prep Batch #...: 4026449							
Bismuth	0.500	0.508	mg/L	102	SW846 6010B	01/26-01/27/04	F8KCH1AF
			Dilution Factor: 1		Analysis Time..: 14:32		
Cadmium	50.0	506 N	ug/L	1010	SW846 6020	01/26-01/29/04	F8KCH1AL
			Dilution Factor: 1		Analysis Time..: 19:45		
Antimony	50.0	505 N	ug/L	1010	SW846 6020	01/26-01/29/04	F8KCH1AM
			Dilution Factor: 1		Analysis Time..: 19:45		
Thallium	50.0	499 N	ug/L	999	SW846 6020	01/26-01/29/04	F8KCH1AN
			Dilution Factor: 1		Analysis Time..: 19:45		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4A220292 Matrix.....: WATER
Date Sampled...: 01/20/04 13:11 Date Received..: 01/21/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4A210205-002 **Prep Batch #...:** 4026449							
Bismuth	100	(75 - 125)			SW846 6010B	01/26-01/27/04	F8A3G1AF
	99	(75 - 125)	1.2	(0-20)	SW846 6010B	01/26-01/27/04	F8A3G1AG

Dilution Factor: 1
Analysis Time..: 15:27
MS Run #.....: 4026199

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4A220292 **Matrix.....:** WATER
Date Sampled...: 01/20/04 13:11 **Date Received..:** 01/21/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4A210205-002 **Prep Batch #...:** 4026449									
Bismuth									
	ND	0.500	0.506	mg/L	100		SW846 6010B	01/26-01/27/04	F8A3G1AF
	ND	0.500	0.500	mg/L	99	1.2	SW846 6010B	01/26-01/27/04	F8A3G1AG

Dilution Factor: 1
Analysis Time..: 15:27
MS Run #.....: 4026199

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Report Attachment

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.1 COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.
EPA 340.2 Fluoride: Preliminary Bellack distillation not performed.
EPA 8151A: Laboratory utilizes alternate extraction solvent.
Iowa OA-1: Benzene, toluene, ethylbenzene and xylenes (BTEX) not analyzed along with Gasoline Range Organics if client does not require BTEX.
EPA TO-12: Samples are not analyzed in duplicate.
EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

SEVERN TRENT STL

CHAIN–OF–CUSTODY ADDENDUM

Lot No: F4A220292

RECEIVED BY: [signature]

COC NUMBER:

DATE/TIME RECEIVED: 1-22-04 0900

QUOTE/PROFILE: 56822

UNPACKED DATE/TIME: 1-22-04 1000

CLIENT/PROJECT:

SAMPLES LOGGED IN: CC

LOG-IN REVIEWED: [illegible]

Number of Shipping Containers Received with Chain of Custody: 1

VOC AIR / FILTER SAMPLES ☐ YES **SEE SECTIONS 1.0, 2.0, & 6.0**

1.0 CONTAINERS EXAMINED UPON RECEIPT: CC

Container Sealed: ☑ YES ☐ NO

Custody Seal Signed/Dated: ☑ YES ☐ NO

Custody Seal Present: ☑ YES ☐ NO

Containers checked for radioactivity: ☐ YES ☑ NO

If seal not intact or Geiger counter reading >0.5 mR/hr, list air bill number of that container(s):

2.0 VOC CANISTERS EXAMINED UPON RECEIPT:

Canister Valves Closed: ☐ YES ☐ NO

Samples Received Match Chain: ☐ YES ☐ NO

Canister Valves Capped: ☐ YES ☐ NO

See Additional Comments: ☐ YES ☐ NO

Packing Material Used: (circle)
None / Absorbent / Paper / Bubble Wrap

Can Size: ☐ 6L ☐ 15L Other

3.0 SAMPLE TEMPERATURE UPON RECEIPT: CC **PYROMETER #:** 95

The temperature of the container(s) is: *[acceptable tolerance 4°C ± 2°; (NC, WI: 1-4.4°C)]*

3.0°C										

If temperature is outside acceptable tolerance, Project Manager was notified (_____PM). Date: _____ Time: _____

Samples received do not require cooling _____ OK to analyze samples: ☑ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED: ☑ NA ☐ YES **VERIFIED BY:**

Base samples are>pH 12: ☐ YES ☐ NO

Acid preserved are<pH 2: ☐ YES ☐ NO

Cyanide samples checked for sulfides: ☐ YES

Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Samples checked for chlorine per specification: ☐ YES

Free chlorine present: ☐ YES ☐ NO

If sample preservation is outside acceptable tolerance, Project Manager was notified (_____PM)
Date: _____ Time: _____ ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOAs CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

4.0 CONDITION OF BOTTLES/CONTAINERS VERIFIED BY: CC

Samples received match COC: ☑ YES ☐ NO Bottles received intact: ☑ YES ☐ NO

See additional discrepancies/comments section: ☐ YES ☑ NO Samples received from USDA restricted area: ☐ YES ☑ NO

Chain-of-Custody form properly maintained: ☑ YES ☐ NO VOA trip blanks included: ☐ YES ☑ NO ☐ N/A

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments

6.0 SHIPPING DOCUMENTATION

Air/freight bill is available and attached to COC: ☐ YES ☑ NO Air bill #: 7925 5449 1547

Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____

Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

COC Addendum number is noted in the 'Comments' section of COC, as required for Horizon LIMS. ☐ YES ☑ N/A

Project Management: _____ Date: 2/6/04

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SEVERN TRENT **STL**

STL-Austin

No. 2204

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	**BILLING INFORMATION**
ADDRESS: 1733 N.P.I.D. Corpus Christi, TX 78408	BILL TO: Same
	ADDRESS:
PHONE: (361) 289-2673	PHONE:
FAX: (361) 289-2471	FAX: PO NO:

LAB JOB NO.

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: TCP-MS 5B, Cd, Tl, Bi	REMARKS/PRECAUTIONS
	222789-1	1/20/04	1600	water	P500	HNO_3	1	✓	Encycle/ASARCO Pricing
	-2		1600					✓	Attn: Neil Salcher
	-3		1625					✓	3.0° C 1-22-04 CC

SAMPLER:

SHIPMENT METHOD:

AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE ☐ OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Chuck Whitmire	1/21/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL-CC	TIME 1455	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	1-22-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL Austin	TIME 0900	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

SEVERN TRENT **STL** STL-Austin

No. 2204

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	**BILLING INFORMATION**
ADDRESS: 1733 N.P.I.D.	BILL TO: Same
Corpus Christi, TX 78408	ADDRESS:
PHONE: (361) 289-2673	PHONE:
FAX: (361) 289-2471	FAX: PO NO:

LAB JOB NO.

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV	NUMBER OF CONTAINERS	TCP-MS Sb,Cd,Tl,Bi	REMARKS/PRECAUTIONS
	222789-1	1/20/04	1600	water	P500	HNO_3	1	✓	Encycle/ASARCO Pricing
	-2		1600					✓	Attn: Neil Salcher
	-3		1625					✓	3.0° C 1-22-04 CL

SAMPLER: SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE ☐ OTHER

1. RELINQUISHED BY	DATE	2. RELINQUISHED BY	DATE	3. RELINQUISHED BY	DATE
SIGNATURE: Christine Whetmore	1/21/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL-CC	TIME 1455	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY	DATE	2. RECEIVED BY	DATE	3. RECEIVED BY	DATE
SIGNATURE:	1-22-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL Austin	TIME 0800	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-500 (12/02)

End of

Subcontract Laboratory

Report(s)

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 02/12/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:
Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND = Not detected at a value greater than the reporting limit
TNTC = Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard
CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 02/12/2004

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

222789

5.3°C Just sample

Project Number/Name: Encyle-Texas Trust Fund

Project Location: Corpus Christi, TX

Laboratory: STL Corpus Christi

Project Manager: Ken Brandon

Sampler(s)/Affiliation: Ken Brandon / ARCADIS

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Total Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Hg, Ni, Se, Ag, Thallium, Tin, V, Zn (2 16 oz poly w/ HNO3)		Total Cyanide (32 oz poly w/ NaOH)		Total As, Ba, Cd, Cr, Pb, Hg, Se, Ag (16 oz poly w/ HNO3)		Remarks	Total
Fac3-Permit Hed Floor	L	1/20/04 16:00		2		1					3
Fac3-Permit Hed Floor DUP	L	16:00		2		1					3
Field Blank	L	16:20		2		1					3
Tank 695096	L	16:25						1			1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 10

Relinquished by: Kenneth Brandon	Organization: ARCADIS	Date 1/20/04	Time 1640	Seal Intact?	
Received by: [signature]	Organization: STL-CC	Date 1/20/04	Time 1640	Yes No N/A	
Relinquished by:	Organization:	Date / /	Time	Seal Intact?	
Received by:	Organization:	Date / /	Time	Yes No N/A	

Special Instructions/Remarks: Normal turnaround. Results to Ken Brandon. Invoice to Rich Mercer of Encyle. Samples delivered in coolers with ice.

Delivery Method: ☒ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____

SEVERN TRENT STL

RECEIVED
FEB 23 2004
BY:

ANALYTICAL REPORT

JOB NUMBER: 222999

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 02/18/2004

Olga Verónica McDonald
Signature

Date 2/18/04

Name: Olga V. McDonald

Title: Project Manager

E-Mail: omcdonald@stl-inc.com

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 39

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 02/18/2004

Job Number.: 222999
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000084
Customer Project ID....: ENCYCLE CORPUS CHRISTI T
Project Description....: Project - OVM

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
222999-1	TANK 605037	Water	02/03/2004	14:00	02/03/2004	15:18
222999-2	TANK 605036	Water	02/03/2004	14:30	02/03/2004	15:18
222999-3	FAC 3 PERMITTED FLOOR	Water	02/03/2004	14:55	02/03/2004	15:18

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 222999

Date: 02/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE CORPUS CHRIS ATTN: Richard Marcus

Customer Sample ID: TANK 605037
Date Sampled.....: 02/03/2004
Time Sampled.....: 14:00
Sample Matrix.....: Water

Laboratory Sample ID: 222999-1
Date Received.....: 02/03/2004
Time Received.....: 15:18

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	02/06/04	edr
SW-846 6010B	Arsenic (As), Total	<0.01	0.01	mg/L	02/06/04	jem
SW-846 6010B	Barium (Ba), Total	0.10	0.01	mg/L	02/06/04	jem
SW-846 6010B	Cadmium (Cd), Total	<0.01	0.01	mg/L	02/06/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	02/06/04	jem
SW-846 6010B	Lead (Pb), Total	0.13	0.01	mg/L	02/06/04	jem
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	02/06/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	02/06/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			02/04/04	hmz

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 222999

Date: 02/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE CORPUS CHRIS ATTN: Richard Marcus

Customer Sample ID: TANK 605036
Date Sampled.....: 02/03/2004
Time Sampled.....: 14:30
Sample Matrix.....: Water

Laboratory Sample ID: 222999-2
Date Received.....: 02/03/2004
Time Received.....: 15:18

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	02/06/04	edr
SW-846 6010B	Arsenic (As), Total	<0.01	0.01	mg/L	02/06/04	jem
SW-846 6010B	Barium (Ba), Total	0.10	0.01	mg/L	02/06/04	jem
SW-846 6010B	Cadmium (Cd), Total	<0.01	0.01	mg/L	02/06/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	02/06/04	jem
SW-846 6010B	Lead (Pb), Total	0.08	0.01	mg/L	02/06/04	jem
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	02/06/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	02/06/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			02/04/04	hmz

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 222999

Date: 02/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE CORPUS CHRIS ATTN: Richard Marcus

Customer Sample ID: FAC 3 PERMITTED FLOOR
Date Sampled.....: 02/03/2004
Time Sampled.....: 14:55
Sample Matrix.....: Water

Laboratory Sample ID: 222999-3
Date Received.....: 02/03/2004
Time Received.....: 15:18

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 6010B	Lead (Pb), Total	0.08	0.01	mg/L	02/06/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			02/04/04	hmz

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222999 | Report Date.: 02/18/2004

CUSTOMER: Encycle Texas, Inc. | PROJECT: ENCYCLE CORPUS CHRISTI T | ATTN: Richard Marcus

Test Method.....: SW-846 7470A
Method Description.: Mercury (CVAA)
Parameter.....: Mercury (Hg)
Batch.....: 89828
Units.....: mg/L
Analyst...: edr
Test Code.: HG

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M020604HG	0.00516		0.005000		103.2	%	90-110	02/06/2004	1358
ICB			0.000363							02/06/2004	1402
LCS		M020604LG	0.00508		0.0050		101.6	%	85-115	02/06/2004	1405
MB			0.000123							02/06/2004	1407
CCV		M020604HG	0.00454		0.005000		90.8	%	80-120	02/06/2004	1428
CCB			0.000025							02/06/2004	1430
MS	222963-1	M020604HG	0.00503		0.005000	-0.000061	101.8	%	85-115	02/06/2004	1435
MSD	222963-1	M020604HG	0.00525	0.00503	0.005000	-0.000061	106.2	%	85-115	02/06/2004	1437
							4.3	R	20		
MS	222997-1	M020604HG	0.00535		0.005000	-0.000072	108.4	%	85-115	02/06/2004	1446
MSD	222997-1	M020604HG	0.00507	0.00535	0.005000	-0.000072	102.8	%	85-115	02/06/2004	1448
							5.4	R	20		
CCV		M020604HG	0.00526		0.005000		105.2	%	80-120	02/06/2004	1503
CCB			-0.000181							02/06/2004	1507

Test Method.....: SW-846 6010B
Method Description.: Metals Analysis (ICAP)
Parameter.....: Arsenic (As)
Batch.....: 89858
Units.....: mg/L
Analyst...: jem
Test Code.: AS

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.00359546		2.00		100.2	%	90-110	02/06/2004	1051
ICV		M0368	1.03097064		1.00		103.1	%	90-110	02/06/2004	1109
ICB			0.00250864							02/06/2004	1143
CCV		M0379	0.97051980		1.00		97.1	%	90-110	02/06/2004	1159
CCB			-0.0001247							02/06/2004	1210
MB	89698	3010	0.00024916							02/06/2004	1214
LCS	89698	M348	0.46999188		0.500		94.0	%	85-110	02/06/2004	1218
MS	222836-5	M348	0.53426594		0.500	-0.0003893	106.9	%	75-125	02/06/2004	1253
MSD	222836-5	M348	0.52533143	0.53426594	0.500	-0.0003893	105.1	%	75-125	02/06/2004	1259
							1.7	R	20		
CCV		M0379	0.98005847		1.00		98.0	%	90-110	02/06/2004	1304
CCB			-0.0037310							02/06/2004	1316
MB	89698	3010.	0.00220611							02/06/2004	1327
LCS	89698	M348	0.44986464		0.500		90.0	%	85-110	02/06/2004	1331
MS	223036-7	M348	0.55966521		0.500	0.01182602	109.6	%	75-125	02/06/2004	1348
MSD	223036-7	M348	0.55319180	0.55966521	0.500	0.01182602	108.3	%	75-125	02/06/2004	1353
							1.2	R	20		
CCV		M0379	0.97311208		1.00		97.3	%	90-110	02/06/2004	1411
CCB			0.00110753							02/06/2004	1422
CCV		M0379	0.97900678		1.00		97.9	%	90-110	02/06/2004	1507
CCB			0.00319474							02/06/2004	1518
MB	89698	3010	0.00285534							02/06/2004	1545
LCS	89698	M348	0.46299128		0.500		92.6	%	85-110	02/06/2004	1552
CCV		M0379	0.96249279		1.00		96.2	%	90-110	02/06/2004	1637
CCB			0.00576279							02/06/2004	1642
MS	223011-2	M348	0.53344947		0.500	0.00808126	105.1	%	75-125	02/06/2004	1659
MSD	223011-2	M348	0.52847597	0.53344947	0.500	0.00808126	104.1	%	75-125	02/06/2004	1705
							0.9	R	20		
[illegible]	89698	3010	0.00797547							02/06/2004	1733
[illegible]		M0379	0.97534065		1.00		97.5	%	90-110	02/06/2004	1737
CCB			0.00383152							02/06/2004	1748

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222999 Report Date.: 02/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE CORPUS CHRISTI T ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 89858 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB	89698	3010	0.00482941							02/06/2004	1755
LCS	89698	M348	0.47682576		0.500		95.4	%	85-110	02/06/2004	1759
MS	222963-1	M348	0.54403606		0.500	0.01384364	106.0	%	75-125	02/06/2004	1812
MSD	222963-1	M348	0.53497881	0.54403606	0.500	0.01384364	104.2	%	75-125	02/06/2004	1817
							1.7	R	20		
CCV		M0379	0.98157640		1.00		98.2	%	90-110	02/06/2004	1838
CCB			0.00361380							02/06/2004	1849
CCV		M0379	0.99306491		1.00		99.3	%	90-110	02/06/2004	1915
CCB			0.00602444							02/06/2004	1926
MB	89698	3010	0.00260079							02/06/2004	2001
LCS	89698	M348	0.51997523		0.500		104.0	%	85-110	02/06/2004	2009
CCV		M0379	1.00319461		1.00		100.3	%	90-110	02/06/2004	2018
CCB			0.00393993							02/06/2004	2029
MS	223051-1	M348	0.58694679		0.500	0.01242525	114.9	%	75-125	02/06/2004	2044
MSD	223051-1	M348	0.55896413	0.58694679	0.500	0.01242525	109.3	%	75-125	02/06/2004	2050
							4.9	R	20		
[illegible]	89698	3051.	-0.0010041							02/06/2004	2106
[illegible]	89698	M348	0.51936408		0.500		103.9	%	85-110	02/06/2004	2110
CCV		M0379	1.00821256		1.00		100.8	%	90-110	02/06/2004	2119
CCB			0.00760201							02/06/2004	2130
MS	222995-2	M348	0.45617706		0.500	-0.0009007	91.4	%	75-125	02/06/2004	2137
MSD	222995-2	M348	0.45814591	0.45617706	0.500	-0.0009007	91.8	%	75-125	02/06/2004	2142
							0.4	R	20		
CCV		M0379	1.00090895		1.00		100.1	%	90-110	02/06/2004	2217
CCB			0.00528265							02/06/2004	2228
MB	89698	3010	0.00465653							02/06/2004	2235
LCS	89698	M348	0.50915890		0.500		101.8	%	85-110	02/06/2004	2242
MS	223027-1	M348	0.56814639		0.500	-0.0015510	113.9	%	75-125	02/06/2004	2310
MSD	223027-1	M348	0.55843776	0.56814639	0.500	-0.0015510	112.0	%	75-125	02/06/2004	2316
							1.7	R	20		
CCV		M0379	1.01066655		1.00		101.1	%	90-110	02/06/2004	2322
CCB			0.00921157							02/06/2004	2333
CCV		M0379	1.00242528		1.00		100.2	%	90-110	02/07/2004	0002
CCB			0.00589077							02/07/2004	0013

Test Method.....: SW-846 6010B Batch.....: 89858 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.01286541		2.00		100.6	%	90-110	02/06/2004	1051
ICV		M0369	1.05067514		1.00		105.1	%	90-110	02/06/2004	1115
ICB			-0.0005105							02/06/2004	1143
CCV		M0379	0.99113505		1.00		99.1	%	90-110	02/06/2004	1159
CCB			-0.0005771							02/06/2004	1210
MB	89698	3010	-0.0006824							02/06/2004	1214
LCS	89698	M348	0.51832790		0.500		103.7	%	90-110	02/06/2004	1218
MS	222836-5	M348	0.68488306		0.500	0.18846557	99.3	%	75-125	02/06/2004	1253
[illegible]	222836-5	M348	0.67005164	0.68488306	0.500	0.18846557	96.3	%	75-125	02/06/2004	1259
							2.2	R	20		
CCV		M0379	0.98318061		1.00		98.3	%	90-110	02/06/2004	1304

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222999 Report Date.: 02/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE CORPUS CHRISTI T ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 89858 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0005434							02/06/2004	1316
MB	89698	3010.	-0.0001619							02/06/2004	1327
LCS	89698	M348	0.51518680		0.500		103.0	%	90-110	02/06/2004	1331
MS	223036-7	M348	0.70161576		0.500	0.20951278	98.4	%	75-125	02/06/2004	1348
MSD	223036-7	M348	0.69370871	0.70161576	0.500	0.20951278	96.8	%	75-125	02/06/2004	1353
							1.1	R	20		
CCV		M0379	0.98011980		1.00		98.0	%	90-110	02/06/2004	1411
CCB			-0.0004224							02/06/2004	1422
CCV		M0379	0.97775542		1.00		97.8	%	90-110	02/06/2004	1507
CCB			-0.0004221							02/06/2004	1518
MB	89698	3010	-0.0005623							02/06/2004	1545
LCS	89698	M348	0.51544463		0.500		103.1	%	90-110	02/06/2004	1552
CCV		M0379	0.98054189		1.00		98.1	%	90-110	02/06/2004	1637
CCB			-0.0001993							02/06/2004	1642
MS	223011-2	M348	0.59984825		0.500	0.11972202	96.0	%	75-125	02/06/2004	1659
MSD	223011-2	M348	0.59730622	0.59984825	0.500	0.11972202	95.5	%	75-125	02/06/2004	1705
							0.4	R	20		
	89698	3010	-0.0004594							02/06/2004	1733
CCV		M0379	0.97089221		1.00		97.1	%	90-110	02/06/2004	1737
CCB			-0.0003590							02/06/2004	1748
MB	89698	3010	0.00004502							02/06/2004	1755
LCS	89698	M348	0.54510707		0.500		109.0	%	90-110	02/06/2004	1759
MS	222963-1	M348	0.53556269		0.500	0.03358519	100.4	%	75-125	02/06/2004	1812
MSD	222963-1	M348	0.52733116	0.53556269	0.500	0.03358519	98.7	%	75-125	02/06/2004	1817
							1.5	R	20		
CCV		M0379	0.98072656		1.00		98.1	%	90-110	02/06/2004	1838
CCB			-0.0002761							02/06/2004	1849
CCV		M0379	0.97956621		1.00		98.0	%	90-110	02/06/2004	1915
CCB			-0.0004458							02/06/2004	1926
MB	89698	3010	-0.0006585							02/06/2004	2001
LCS	89698	M348	0.50601337		0.500		101.2	%	90-110	02/06/2004	2009
CCV		M0379	0.99996055		1.00		100.0	%	90-110	02/06/2004	2018
CCB			-0.0005611							02/06/2004	2029
MS	223051-1	M348	0.54403724		0.500	0.05478362	97.9	%	75-125	02/06/2004	2044
MSD	223051-1	M348	0.51604343	0.54403724	0.500	0.05478362	92.3	%	75-125	02/06/2004	2050
							5.3	R	20		
MB	89698	3051.	0.00157298							02/06/2004	2106
LCS	89698	M348	0.54110746		0.500		108.2	%	90-110	02/06/2004	2110
CCV		M0379	0.99797049		1.00		99.8	%	90-110	02/06/2004	2119
CCB			-0.0004306							02/06/2004	2130
MS	222995-2	M348	0.53862366		0.500	0.00478625	106.8	%	75-125	02/06/2004	2137
MSD	222995-2	M348	0.53754217	0.53862366	0.500	0.00478625	106.6	%	75-125	02/06/2004	2142
							0.2	R	20		
CCV		M0379	0.99271477		1.00		99.3	%	90-110	02/06/2004	2217
CCB			-0.0004491							02/06/2004	2228
MB	89698	3010	-0.0005706							02/06/2004	2235
LCS	89698	M348	0.49098163		0.500		98.2	%	90-110	02/06/2004	2242
MS	223027-1	M348	0.50930737		0.500	0.00920506	100.0	%	75-125	02/06/2004	2310
MSD	223027-1	M348	0.49964654	0.50930737	0.500	0.00920506	98.1	%	75-125	02/06/2004	2316
							1.9	R	20		
		M0379	0.98892781		1.00		98.9	%	90-110	02/06/2004	2322
			-0.0001340							02/06/2004	2333
CCV		M0379	0.98892186		1.00		98.9	%	90-110	02/07/2004	0002

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222999 Report Date.: 02/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE CORPUS CHRISTI T ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 89858 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0004251							02/07/2004	0013

Test Method.....: SW-846 6010B Batch.....: 89858 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CD
Parameter.....: Cadmium (Cd)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.01396297		2.00		100.7	%	90-110	02/06/2004	1051
ICV		M0368	1.01221379		1.00		101.2	%	90-110	02/06/2004	1109
ICB			0.00013353							02/06/2004	1143
CCV		M0379	0.98137137		1.00		98.1	%	90-110	02/06/2004	1159
CCB			0.00019008							02/06/2004	1210
MB	89698	3010	0.00017723							02/06/2004	1214
LCS	89698	M348	0.50790507		0.500		101.6	%	87-110	02/06/2004	1218
MS	222836-5	M348	0.46752149		0.500	0.00008880	93.5	%	75-125	02/06/2004	1253
	222836-5	M348	0.46226694	0.46752149	0.500	0.00008880	92.4	%	75-125	02/06/2004	1259
							1.1	R	20		
CCV		M0379	0.96631569		1.00		96.6	%	90-110	02/06/2004	1304
CCB			0.00041326							02/06/2004	1316
MB	89698	3010.	0.00031599							02/06/2004	1327
LCS	89698	M348	0.50437366		0.500		100.9	%	87-110	02/06/2004	1331
MS	223036-7	M348	0.49318331		0.500	-0.0001492	98.7	%	75-125	02/06/2004	1348
MSD	223036-7	M348	0.48404451	0.49318331	0.500	-0.0001492	96.8	%	75-125	02/06/2004	1353
							1.9	R	20		
CCV		M0379	0.96237215		1.00		96.2	%	90-110	02/06/2004	1411
CCB			0.00041143							02/06/2004	1422
CCV		M0379	0.96549687		1.00		96.5	%	90-110	02/06/2004	1507
CCB			0.00039551							02/06/2004	1518
MB	89698	3010	0.00012895							02/06/2004	1545
LCS	89698	M348	0.49637295		0.500		99.3	%	87-110	02/06/2004	1552
CCV		M0379	0.94684482		1.00		94.7	%	90-110	02/06/2004	1637
CCB			0.00037419							02/06/2004	1642
MS	223011-2	M348	0.46928909		0.500	0.00006761	93.8	%	75-125	02/06/2004	1659
MSD	223011-2	M348	0.46881474	0.46928909	0.500	0.00006761	93.7	%	75-125	02/06/2004	1705
							0.1	R	20		
MB	89698	3010	0.00049118							02/06/2004	1733
CCV		M0379	0.92683122		1.00		92.7	%	90-110	02/06/2004	1737
CCB			0.00056567							02/06/2004	1748
MB	89698	3010	0.00037385							02/06/2004	1755
LCS	89698	M348	0.51743781		0.500		103.5	%	87-110	02/06/2004	1759
MS	222963-1	M348	0.48342530		0.500	0.00012027	96.7	%	75-125	02/06/2004	1812
MSD	222963-1	M348	0.47516155	0.48342530	0.500	0.00012027	95.0	%	75-125	02/06/2004	1817
							1.7	R	20		
CCV		M0379	0.93340401		1.00		93.3	%	90-110	02/06/2004	1838
CCB			0.00062273							02/06/2004	1849
CCV		M0379	0.93362467		1.00		93.4	%	90-110	02/06/2004	1915
CCB			0.00060329							02/06/2004	1926
MB	89698	3010	0.00054998							02/06/2004	2001
LCS	89698	M348	0.47319763		0.500		94.6	%	87-110	02/06/2004	2009
		M0379	0.94424138		1.00		94.4	%	90-110	02/06/2004	2018
			0.00061029							02/06/2004	2029

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222999 | Report Date.: 02/18/2004

CUSTOMER: Encycle Texas, Inc. | PROJECT: ENCYCLE CORPUS CHRISTI T | ATTN: Richard Marcus

Test Method.....: SW-846 6010B | Batch.....: 89858 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: CD
Parameter.....: Cadmium (Cd)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MS	223051-1	M348	0.46956138		0.500	0.00018214	93.9	%	75-125	02/06/2004	2044
MSD	223051-1	M348	0.44788191	0.46956138	0.500	0.00018214	89.5	%	75-125	02/06/2004	2050
							4.7	R	20		
MB	89698	3051.	0.00052698							02/06/2004	2106
LCS	89698	M348	0.50029450		0.500		100.1	%	87-110	02/06/2004	2110
CCV		M0379	0.95265549		1.00		95.3	%	90-110	02/06/2004	2119
CCB			0.00076452							02/06/2004	2130
MS	222995-2	M348	0.48748930		0.500	0.00139324	97.2	%	75-125	02/06/2004	2137
MSD	222995-2	M348	0.48796141	0.48748930	0.500	0.00139324	97.3	%	75-125	02/06/2004	2142
							0.1	R	20		
CCV		M0379	0.95298915		1.00		95.3	%	90-110	02/06/2004	2217
CCB			0.00064497							02/06/2004	2228
MB	89698	3010	0.00052239							02/06/2004	2235
LCS	89698	M348	0.46440490		0.500		92.9	%	87-110	02/06/2004	2242
MS	223027-1	M348	0.47340238		0.500	0.00014012	94.7	%	75-125	02/06/2004	2310
MSD	223027-1	M348	0.46373649	0.47340238	0.500	0.00014012	92.7	%	75-125	02/06/2004	2316
							2.1	R	20		
[illegible]		M0379	0.94795983		1.00		94.8	%	90-110	02/06/2004	2322
[illegible]B			0.00089814							02/06/2004	2333
CCV		M0379	0.93777147		1.00		93.8	%	90-110	02/07/2004	0002
CCB			0.00088060							02/07/2004	0013

Test Method.....: SW-846 6010B | Batch.....: 89858 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.01492680		2.00		100.7	%	90-110	02/06/2004	1051
ICV		M0368	1.01396765		1.00		101.4	%	90-110	02/06/2004	1109
ICB			-0.0008806							02/06/2004	1143
CCV		M0379	0.98785223		1.00		98.8	%	90-110	02/06/2004	1159
CCB			-0.0012113							02/06/2004	1210
MB	89698	3010	-0.0013076							02/06/2004	1214
LCS	89698	M348	0.51380136		0.500		102.8	%	90-110	02/06/2004	1218
MS	222836-5	M348	0.50802488		0.500	0.00226619	101.2	%	75-125	02/06/2004	1253
MSD	222836-5	M348	0.50179036	0.50802488	0.500	0.00226619	99.9	%	75-125	02/06/2004	1259
							1.2	R	20		
CCV		M0379	0.97831151		1.00		97.8	%	90-110	02/06/2004	1304
CCB			-0.0008540							02/06/2004	1316
MB	89698	3010.	-0.0000697							02/06/2004	1327
LCS	89698	M348	0.51531350		0.500		103.1	%	90-110	02/06/2004	1331
MS	223036-7	M348	0.51433443		0.500	0.00739326	101.4	%	75-125	02/06/2004	1348
MSD	223036-7	M348	0.50783317	0.51433443	0.500	0.00739326	100.1	%	75-125	02/06/2004	1353
							1.3	R	20		
CCV		M0379	0.97345426		1.00		97.3	%	90-110	02/06/2004	1411
CCB			-0.0005200							02/06/2004	1422
CCV		M0379	0.97331868		1.00		97.3	%	90-110	02/06/2004	1507
CCB			-0.0004306							02/06/2004	1518
MB	89698	3010	-0.0005224							02/06/2004	1545
[illegible]	89698	M348	0.50649983		0.500		101.3	%	90-110	02/06/2004	1552
[illegible]V		M0379	0.96385274		1.00		96.4	%	90-110	02/06/2004	1637

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222999 Report Date.: 02/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE CORPUS CHRISTI T ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 89858 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0003401							02/06/2004	1642
MS	223011-2	M348	0.48316368		0.500	0.00073617	96.5	%	75-125	02/06/2004	1659
MSD	223011-2	M348	0.48115538	0.48316368	0.500	0.00073617	96.1	%	75-125	02/06/2004	1705
							0.4	R	20		
MB	89698	3010	-0.0012863							02/06/2004	1733
CCV		M0379	0.94630281		1.00		94.6	%	90-110	02/06/2004	1737
CCB			-0.0009555							02/06/2004	1748
MB	89698	3010	-0.0006963							02/06/2004	1755
LCS	89698	M348	0.53804161		0.500		107.6	%	90-110	02/06/2004	1759
MS	222963-1	M348	0.49934259		0.500	-0.0008075	100.0	%	75-125	02/06/2004	1812
MSD	222963-1	M348	0.49096203	0.49934259	0.500	-0.0008075	98.4	%	75-125	02/06/2004	1817
							1.7	R	20		
CCV		M0379	0.95490179		1.00		95.5	%	90-110	02/06/2004	1838
CCB			-0.0010645							02/06/2004	1849
CCV		M0379	0.95386726		1.00		95.4	%	90-110	02/06/2004	1915
CCB			-0.0004536							02/06/2004	1926
MB	89698	3010	-0.0004754							02/06/2004	2001
LCS	89698	M348	0.49414125		0.500		98.8	%	90-110	02/06/2004	2009
CCV		M0379	0.97759709		1.00		97.8	%	90-110	02/06/2004	2018
CCB			-0.0005820							02/06/2004	2029
MS	223051-1	M348	0.49918589		0.500	0.00200407	99.4	%	75-125	02/06/2004	2044
MSD	223051-1	M348	0.47150309	0.49918589	0.500	0.00200407	93.9	%	75-125	02/06/2004	2050
							5.7	R	20		
MB	89698	3051.	0.00083521							02/06/2004	2106
LCS	89698	M348	0.53347644		0.500		106.7	%	90-110	02/06/2004	2110
CCV		M0379	0.97996143		1.00		98.0	%	90-110	02/06/2004	2119
CCB			-0.0009335							02/06/2004	2130
MS	222995-2	M348	0.53086729		0.500	0.00553936	105.1	%	75-125	02/06/2004	2137
MSD	222995-2	M348	0.52989186	0.53086729	0.500	0.00553936	104.9	%	75-125	02/06/2004	2142
							0.2	R	20		
CCV		M0379	0.97746732		1.00		97.7	%	90-110	02/06/2004	2217
CCB			-0.0007476							02/06/2004	2228
MB	89698	3010	-0.0009004							02/06/2004	2235
LCS	89698	M348	0.48122769		0.500		96.2	%	90-110	02/06/2004	2242
MS	223027-1	M348	0.50584515		0.500	0.00615338	99.9	%	75-125	02/06/2004	2310
MSD	223027-1	M348	0.49586249	0.50584515	0.500	0.00615338	97.9	%	75-125	02/06/2004	2316
							2.0	R	20		
CCV		M0379	0.97153422		1.00		97.2	%	90-110	02/06/2004	2322
CCB			-0.0004339							02/06/2004	2333
CCV		M0379	0.97011300		1.00		97.0	%	90-110	02/07/2004	0002
CCB			-0.0010606							02/07/2004	0013

Test Method.....: SW-846 6010B Batch.....: 89858 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.01401164		2.00		100.7	%	90-110	02/06/2004	1051
ICV		M0368	1.01340903		1.00		101.3	%	90-110	02/06/2004	1109
[illegible]			-0.0012376							02/06/2004	1143
CCV		M0379	0.97778403		1.00		97.8	%	90-110	02/06/2004	1159

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222999 Report Date.: 02/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE CORPUS CHRISTI T ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 89858 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			0.00130929							02/06/2004	1210
MB	89698	3010	-0.0014010							02/06/2004	1214
LCS	89698	M348	0.51587111		0.500		103.2	%	87-112	02/06/2004	1218
MS	222836-5	M348	0.46888499		0.500	0.00003511	93.8	%	75-125	02/06/2004	1253
MSD	222836-5	M348	0.46792452	0.46888499	0.500	0.00003511	93.6	%	75-125	02/06/2004	1259
							0.2	R	20		
CCV		M0379	0.97050533		1.00		97.1	%	90-110	02/06/2004	1304
CCB			0.00113313							02/06/2004	1316
MB	89698	3010.	-0.0019157							02/06/2004	1327
LCS	89698	M348	0.51146807		0.500		102.3	%	87-112	02/06/2004	1331
MS	223036-7	M348	0.48745588		0.500	0.00209210	97.1	%	75-125	02/06/2004	1348
MSD	223036-7	M348	0.48321926	0.48745588	0.500	0.00209210	96.2	%	75-125	02/06/2004	1353
							0.9	R	20		
CCV		M0379	0.96209263		1.00		96.2	%	90-110	02/06/2004	1411
CCB			-0.0003436							02/06/2004	1422
CCV		M0379	0.96885772		1.00		96.9	%	90-110	02/06/2004	1507
			-0.0004381							02/06/2004	1518
	89698	3010	-0.0011800							02/06/2004	1545
LCS	89698	M348	0.51783927		0.500		103.6	%	87-112	02/06/2004	1552
CCV		M0379	0.96526088		1.00		96.5	%	90-110	02/06/2004	1637
CCB			0.00142119							02/06/2004	1642
MS	223011-2	M348	0.46757803		0.500	-0.0000943	93.5	%	75-125	02/06/2004	1659
MSD	223011-2	M348	0.46088149	0.46757803	0.500	-0.0000943	92.2	%	75-125	02/06/2004	1705
							1.4	R	20		
MB	89698	3010	-0.0047683							02/06/2004	1733
CCV		M0379	0.95440405		1.00		95.4	%	90-110	02/06/2004	1737
CCB			-0.0011697							02/06/2004	1748
MB	89698	3010	-0.0032047							02/06/2004	1755
LCS	89698	M348	0.50508628		0.500		101.0	%	87-112	02/06/2004	1759
MS	222963-1	M348	0.48705754		0.500	-0.0008934	97.6	%	75-125	02/06/2004	1812
MSD	222963-1	M348	0.47437157	0.48705754	0.500	-0.0008934	95.1	%	75-125	02/06/2004	1817
							2.6	R	20		
CCV		M0379	0.95703808		1.00		95.7	%	90-110	02/06/2004	1838
CCB			-0.0021218							02/06/2004	1849
CCV		M0379	0.95918933		1.00		95.9	%	90-110	02/06/2004	1915
CCB			-0.0019413							02/06/2004	1926
MB	89698	3010	-0.0041451							02/06/2004	2001
LCS	89698	M348	0.49274936		0.500		98.5	%	87-112	02/06/2004	2009
CCV		M0379	0.98322676		1.00		98.3	%	90-110	02/06/2004	2018
CCB			-0.0028936							02/06/2004	2029
MS	223051-1	M348	0.46497168		0.500	-0.0025983	93.5	%	75-125	02/06/2004	2044
MSD	223051-1	M348	0.44579652	0.46497168	0.500	-0.0025983	89.7	%	75-125	02/06/2004	2050
							4.2	R	20		
MB	89698	3051.	-0.0016344							02/06/2004	2106
LCS	89698	M348	0.53085305		0.500		106.2	%	87-112	02/06/2004	2110
CCV		M0379	0.98568061		1.00		98.6	%	90-110	02/06/2004	2119
CCB			-0.0022021							02/06/2004	2130
MS	222995-2	M348	0.68130355		0.500	0.14390778	107.5	%	75-125	02/06/2004	2137
MSD	222995-2	M348	0.66847006	0.68130355	0.500	0.14390778	104.9	%	75-125	02/06/2004	2142
							1.9	R	20		
		M0379	0.98368093		1.00		98.4	%	90-110	02/06/2004	2217
			-0.0023033							02/06/2004	2228
MB	89698	3010	-0.0040532							02/06/2004	2235

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222999 | Report Date.: 02/18/2004

CUSTOMER: Encycle Texas, Inc. | PROJECT: ENCYCLE CORPUS CHRISTI T | ATTN: Richard Marcus

Test Method.....: SW-846 6010B | Batch.....: 89858 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
LCS	89698	M348	0.48334710		0.500		96.7	%	87-112	02/06/2004	2242
MS	223027-1	M348	0.47637964		0.500	-0.0085259	97.0	%	75-125	02/06/2004	2310
MSD	223027-1	M348	0.46576730	0.47637964	0.500	-0.0085259	94.9	%	75-125	02/06/2004	2316
							2.3	R	20		
CCV		M0379	0.98631484		1.00		98.6	%	90-110	02/06/2004	2322
CCB			-0.0042875							02/06/2004	2333
CCV		M0379	0.97176749		1.00		97.2	%	90-110	02/07/2004	0002
CCB			-0.0029277							02/07/2004	0013

Test Method.....: SW-846 6010B | Batch.....: 89858 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
		M0370	2.03105424		2.00		101.6	%	90-110	02/06/2004	1051
.V		M0368	0.98212776		1.00		98.2	%	90-110	02/06/2004	1109
ICB			-0.0056368							02/06/2004	1143
CCV		M0379	0.95205082		1.00		95.2	%	90-110	02/06/2004	1159
CCB			-0.0079622							02/06/2004	1210
MB	89698	3010	0.00106642							02/06/2004	1214
LCS	89698	M348	0.49281568		0.500		98.6	%	82-111	02/06/2004	1218
MS	222836-5	M348	0.48963940		0.500	-0.0216319	102.3	%	75-125	02/06/2004	1253
MSD	222836-5	M348	0.48909578	0.48963940	0.500	-0.0216319	102.1	%	75-125	02/06/2004	1259
							0.1	R	20		
CCV		M0379	0.95067112		1.00		95.1	%	90-110	02/06/2004	1304
CCB			0.00251017							02/06/2004	1316
MB	89698	3010.	0.00073951							02/06/2004	1327
LCS	89698	M348	0.47625007		0.500		95.3	%	82-111	02/06/2004	1331
MS	223036-7	M348	0.49111428		0.500	-0.0130539	100.8	%	75-125	02/06/2004	1348
MSD	223036-7	M348	0.47837317	0.49111428	0.500	-0.0130539	98.3	%	75-125	02/06/2004	1353
							2.6	R	20		
CCV		M0379	0.94557237		1.00		94.6	%	90-110	02/06/2004	1411
CCB			-0.0070382							02/06/2004	1422
CCV		M0379	0.95132918		1.00		95.1	%	90-110	02/06/2004	1507
CCB			-0.0037705							02/06/2004	1518
MB	89698	3010	-0.0058637							02/06/2004	1545
LCS	89698	M348	0.48189565		0.500		96.4	%	82-111	02/06/2004	1552
CCV		M0379	0.92548644		1.00		92.5	%	90-110	02/06/2004	1637
CCB			-0.0078774							02/06/2004	1642
MS	223011-2	M348	0.45631490		0.500	-0.0276661	96.8	%	75-125	02/06/2004	1659
MSD	223011-2	M348	0.45836824	0.45631490	0.500	-0.0276661	97.2	%	75-125	02/06/2004	1705
							0.4	R	20		
MB	89698	3010	-0.0159808							02/06/2004	1733
CCV		M0379	0.91959544		1.00		92.0	%	90-110	02/06/2004	1737
CCB			-0.0142994							02/06/2004	1748
MB	89698	3010	-0.0111962							02/06/2004	1755
LCS	89698	M348	0.47053066		0.500		94.1	%	82-111	02/06/2004	1759
MS	222963-1	M348	0.46746695		0.500	-0.0255521	98.6	%	75-125	02/06/2004	1812
`D	222963-1	M348	0.45408756	0.46746695	0.500	-0.0255521	95.9	%	75-125	02/06/2004	1817
							2.9	R	20		
CCV		M0379	0.92066673		1.00		92.1	%	90-110	02/06/2004	1838

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222999 | Report Date.: 02/18/2004

CUSTOMER: Encycle Texas, Inc. | PROJECT: ENCYCLE CORPUS CHRISTI T | ATTN: Richard Marcus

Test Method.....: SW-846 6010B | Batch.....: 89858 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0154877							02/06/2004	1849
CCV		M0379	0.92471181		1.00		92.5	%	90-110	02/06/2004	1915
CCB			-0.0188559							02/06/2004	1926
MB	89698	3010	-0.0036248							02/06/2004	2001
LCS	89698	M348	0.45911417		0.500		91.8	%	82-111	02/06/2004	2009
CCV		M0379	0.94760609		1.00		94.8	%	90-110	02/06/2004	2018
CCB			-0.0065069							02/06/2004	2029
MS	223051-1	M348	0.47850658		0.500	-0.0093128	97.6	%	75-125	02/06/2004	2044
MSD	223051-1	M348	0.45531165	0.47850658	0.500	-0.0093128	92.9	%	75-125	02/06/2004	2050
							5.0	R	20		
MB	89698	3051.	-0.0052865							02/06/2004	2106
LCS	89698	M348	0.47212283		0.500		94.4	%	82-111	02/06/2004	2110
CCV		M0379	0.94104934		1.00		94.1	%	90-110	02/06/2004	2119
CCB			-0.0120675							02/06/2004	2130
MS	222995-2	M348	0.45221046		0.500	-0.0130079	93.0	%	75-125	02/06/2004	2137
MSD	222995-2	M348	0.46463260	0.45221046	0.500	-0.0130079	95.5	%	75-125	02/06/2004	2142
							2.7	R	20		
		M0379	0.93855473		1.00		93.9	%	90-110	02/06/2004	2217
			-0.0180175							02/06/2004	2228
MB	89698	3010	-0.0135372							02/06/2004	2235
LCS	89698	M348	0.43772577		0.500		87.5	%	82-111	02/06/2004	2242
MS	223027-1	M348	0.49789279		0.500	-0.0134678	102.3	%	75-125	02/06/2004	2310
MSD	223027-1	M348	0.47968905	0.49789279	0.500	-0.0134678	98.6	%	75-125	02/06/2004	2316
							3.7	R	20		
CCV		M0379	0.93834808		1.00		93.8	%	90-110	02/06/2004	2322
CCB			-0.0274192							02/06/2004	2333
CCV		M0379	0.93229104		1.00		93.2	%	90-110	02/07/2004	0002
CCB			-0.0173127							02/07/2004	0013

Test Method.....: SW-846 6010B | Batch.....: 89858 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.00322324		1.0		100.3	%	90-110	02/06/2004	1051
ICV		M0369	1.07306617		1.00		107.3	%	90-110	02/06/2004	1115
ICB			-0.0019932							02/06/2004	1143
CCV		M0379	0.49117871		0.50		98.2	%	90-110	02/06/2004	1159
CCB			-0.0004243							02/06/2004	1210
MB	89698	3010	-0.0003247							02/06/2004	1214
LCS	89698	M348	0.28468878		0.25		113.9	%	80-120	02/06/2004	1218
MS	222836-5	M348	0.08080421		0.25	-0.0031159	33.6	%	75-125	02/06/2004	1253
MSD	222836-5	M348	0.08690280	0.08080421	0.25	-0.0031159	36.0	%	75-125	02/06/2004	1259
							7.3	R	20		
CCV		M0379	0.48860436		0.50		97.7	%	90-110	02/06/2004	1304
CCB			-0.0003651							02/06/2004	1316
MB	89698	3010.	-0.0007760							02/06/2004	1327
LCS	89698	M348	0.25627524		0.25		102.5	%	87-110	02/06/2004	1331
CCV		M0379	0.49318819		0.50		98.6	%	90-110	02/06/2004	1411
			-0.0009176							02/06/2004	1422
		M0379	0.49378625		0.50		98.8	%	90-110	02/06/2004	1507

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 222999

Report Date.: 02/18/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE CORPUS CHRISTI T ATTN: Richard Marcus

Test Method.....: SW-846 6010B
Method Description.: Metals Analysis (ICAP)
Parameter.....: Silver (Ag)

Batch.....: 89858
Units.....: mg/L

Analyst...: jem
Test Code.: AG

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0008288							02/06/2004	1518
MB	89698	3010	-0.0008944							02/06/2004	1545
LCS	89698	M348	0.25604155		0.25		102.4	%	87-110	02/06/2004	1552
CCV		M0379	0.49105671		0.50		98.2	%	90-110	02/06/2004	1637
CCB			-0.0014159							02/06/2004	1642
MB	89698	3010	-0.0011113							02/06/2004	1733
CCV		M0379	0.48305933		0.50		96.6	%	90-110	02/06/2004	1737
CCB			-0.0013216							02/06/2004	1748
MB	89698	3010	-0.0004390							02/06/2004	1755
LCS	89698	M348	0.26615836		0.25		106.5	%	87-110	02/06/2004	1759
CCV		M0379	0.48287148		0.50		96.6	%	90-110	02/06/2004	1838
CCB			-0.0015994							02/06/2004	1849
CCV		M0379	0.48061558		0.50		96.1	%	90-110	02/06/2004	1915
CCB			-0.0008863							02/06/2004	1926
MB	89698	3010	-0.0001459							02/06/2004	2001
LCS	89698	M348	0.21073777		0.25		84.3	%	80-120	02/06/2004	2009
CCV		M0379	0.47927420		0.50		95.9	%	90-110	02/06/2004	2018
CCB			-0.0010585							02/06/2004	2029
MS	223051-1	M348	0.22056864		0.25	-0.0023290	89.2	%	75-125	02/06/2004	2044
MSD	223051-1	M348	0.21949537	0.22056864	0.25	-0.0023290	88.7	%	75-125	02/06/2004	2050
							0.5	R	20		
MB	89698	3051.	0.00159246							02/06/2004	2106
LCS	89698	M348	0.25276770		0.25		101.1	%	87-110	02/06/2004	2110
CCV		M0379	0.48927565		0.50		97.9	%	90-110	02/06/2004	2119
CCB			-0.0011151							02/06/2004	2130
MS	222995-2	M348	0.25647604		0.25	0.00526954	100.5	%	75-125	02/06/2004	2137
MSD	222995-2	M348	0.25762566	0.25647604	0.25	0.00526954	100.9	%	75-125	02/06/2004	2142
							0.4	R	20		
CCV		M0379	0.48684641		0.50		97.4	%	90-110	02/06/2004	2217
CCB			-0.0006494							02/06/2004	2228
CCV		M0379	0.48175928		0.50		96.4	%	90-110	02/06/2004	2322
CCB			-0.0008655							02/06/2004	2333
CCV		M0379	0.48124256		0.50		96.2	%	90-110	02/07/2004	0002
CCB			-0.0002816							02/07/2004	0013

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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Original

Subcontract Laboratory

Report

SEVERN TRENT STL

Certificate of Analysis

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ANALYTICAL REPORT

Encycle/Asarco

Lot #: I4B050145

Olga McDonald

STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

SEVERN TRENT LABORATORIES, INC.

Neal J. Salcher
Project Manager

February 11, 2004

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

February 11, 2004

STL LOT NUMBER: **I4B050145**

Olga McDonald
STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

Dear Olga McDonald,

This report contains the analytical results for the sample received under chain of custody by Severn Trent Laboratories (STL) on February 5, 2004. This sample is associated with your Encycle/Asarco project.

All applicable quality control procedures met method-specified acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me.

Sincerely,

Neal Salcher
Project Manager

cc: Project File

EXECUTIVE SUMMARY - Detection Highlights

I4B050145

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
222999-3 02/03/04 14:55 001				
Cadmium	44.3	1.0	ug/L	SW846 6020
Thallium	1.3	1.0	ug/L	SW846 6020

ANALYTICAL METHODS SUMMARY

I4B050145

PARAMETER	ANALYTICAL METHOD
ICP-MS (6020)	SW846 6020

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

I4B050145

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
F84FV	001	222999-3	02/03/04	14:55

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

I4B050145

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 6020		4037313	4037137

STL CORPUS CHRISTI

Client Sample ID: 222999-3

TOTAL Metals

Lot-Sample #...: I4B050145-001 **Matrix.....:** WATER
Date Sampled...: 02/03/04 14:55 **Date Received..:** 02/05/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4037313						
Cadmium	**44.3**	**1.0**	**ug/L**	**SW846 6020**	**02/06-02/11/04**	**F84FV1AA**
		Dilution Factor: 1		Analysis Time..: 11:36	MS Run #.....: 4037137	
Thallium	**1.3**	**1.0**	**ug/L**	**SW846 6020**	**02/06-02/11/04**	**F84FV1AC**
		Dilution Factor: 1		Analysis Time..: 11:36	MS Run #.....: 4037137	

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: I4B050145 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I4B060000-313 **Prep Batch #...:** 4037313						
Cadmium	ND	1.0	ug/L	SW846 6020	02/06-02/11/04	F87J51AA
		Dilution Factor: 1				
		Analysis Time..: 11:23				
Thallium	ND	1.0	ug/L	SW846 6020	02/06-02/11/04	F87J51AC
		Dilution Factor: 1				
		Analysis Time..: 11:23				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4B050145 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4B060000-313 **Prep Batch #...:** 4037313					
Cadmium	104	(80 - 120)	SW846 6020	02/06-02/11/04	F87J51AD
		Dilution Factor: 1	Analysis Time..: 11:30		
Thallium	105	(80 - 120)	SW846 6020	02/06-02/11/04	F87J51AE
		Dilution Factor: 1	Analysis Time..: 11:30		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4B050145 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4B060000-313 **Prep Batch #...:** 4037313							
Cadmium	50.0	52.1	ug/L	104	SW846 6020	02/06-02/11/04	F87J51AD
			Dilution Factor: 1		Analysis Time..: 11:30		
Thallium	50.0	52.3	ug/L	105	SW846 6020	02/06-02/11/04	F87J51AE
			Dilution Factor: 1		Analysis Time..: 11:30		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4B050145 **Matrix.....:** WATER
Date Sampled...: 02/03/04 14:55 **Date Received..:** 02/05/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4B050145-001 **Prep Batch #...:** 4037313							
Cadmium	105	(80 - 120)			SW846 6020	02/06-02/11/04	F84FV1AD
	103	(80 - 120)	0.98	(0-20)	SW846 6020	02/06-02/11/04	F84FV1AE
		Dilution Factor: 1					
		Analysis Time..: 11:56					
		MS Run #.....: 4037137					
Thallium	101	(80 - 120)			SW846 6020	02/06-02/11/04	F84FV1AF
	101	(80 - 120)	0.15	(0-20)	SW846 6020	02/06-02/11/04	F84FV1AG
		Dilution Factor: 1					
		Analysis Time..: 11:56					
		MS Run #.....: 4037137					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4B050145 **Matrix.....:** WATER
Date Sampled...: 02/03/04 14:55 **Date Received..:** 02/05/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4B050145-001 **Prep Batch #...:** 4037313									
Cadmium									
	44.3	50.0	96.9	ug/L	105		SW846 6020	02/06-02/11/04	F84FV1AD
	44.3	50.0	95.9	ug/L	103	0.98	SW846 6020	02/06-02/11/04	F84FV1AE
			Dilution Factor: 1						
			Analysis Time..: 11:56						
			MS Run #.....: 4037137						
Thallium									
	1.3	50.0	52.0	ug/L	101		SW846 6020	02/06-02/11/04	F84FV1AF
	1.3	50.0	51.9	ug/L	101	0.15	SW846 6020	02/06-02/11/04	F84FV1AG
			Dilution Factor: 1						
			Analysis Time..: 11:56						
			MS Run #.....: 4037137						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Report Attachment

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.1 COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.
EPA 340.2 Fluoride: Preliminary Bellack distillation not performed.
EPA 8151A: Laboratory utilizes alternate extraction solvent.
Iowa OA-1: Benzene, toluene, ethylbenzene and xylenes (BTEX) not analyzed along with Gasoline Range Organics if client does not require BTEX.
EPA TO-12: Samples are not analyzed in duplicate.
EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

SEVERN TRENT STL

CHAIN–OF–CUSTODY ADDENDUM

Lot No: I4B050145

RECEIVED BY: [signature]

COC NUMBER: _____

DATE/TIME RECEIVED: 2-5-04 0900

QUOTE/PROFILE: 56827

UNPACKED DATE/TIME: 2-5-04 1040

CLIENT/PROJECT: STL

SAMPLES LOGGED IN: [signature]

LOG-IN REVIEWED: [signature]

Number of Shipping Containers Received with Chain of Custody: 1

VOC AIR / FILTER SAMPLES ☐ YES **SEE SECTIONS 1.0, 2.0, & 6.0**

1.0 CONTAINERS EXAMINED UPON RECEIPT: _____

Container Sealed: ☐ YES ☐ NO

Custody Seal Signed/Dated: ☐ YES ☐ NO

Custody Seal Present: ☐ YES ☐ NO

Containers checked for radioactivity: ☐ YES ☐ NO ☐ N/A

If seal not intact or Geiger counter reading >0.5 mR/hr, list air bill number of that container(s): _____

2.0 VOC CANISTERS EXAMINED UPON RECEIPT: _____

Canister Valves Closed: ☐ YES ☐ NO

Samples Received Match Chain: ☐ YES ☐ NO

Canister Valves Capped: ☐ YES ☐ NO

See Additional Comments (Section 5.0 and / or 7.0) ☐ YES ☐ NO

Packing Material Used: (circle)
None / Absorbent / Paper / Bubble Wrap

Chain-of-Custody form properly maintained: ☐ YES ☐ NO

Can Size: ☐ 6L ☐ 15L Other _____

3.0 SAMPLE TEMPERATURE UPON RECEIPT: CC **IR THERMOMETER #:** 004

The temperature of the container(s) is: *[acceptable tolerance 4°C ± 2°; (NC, WI: 1-4.4°C)]*

3.0°C										

If temperature is outside acceptable tolerance, Project Manager was notified (_____PM). Date: _____ Time: _____

Samples received do not require cooling _____

OK to analyze samples: ☑ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED: ☐ NA ☑ YES **VERIFIED BY:** CC

Base samples are>pH 12: ☐ YES ☐ NO

Acid preserved are<pH 2: ☑ YES ☐ NO

Cyanide samples checked for sulfides: ☐ YES

Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Samples checked for chlorine per specification: ☐ YES

Free chlorine present: ☐ YES ☐ NO

If sample preservation is outside acceptable tolerance, Project Manager was notified (_____PM)

Date: _____ Time: _____ ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOAs CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

4.0 CONDITION OF BOTTLES/CONTAINERS **VERIFIED BY:** CC

Samples received match COC: ☑ YES ☐ NO Bottles received intact: ☑ YES ☐ NO
See additional discrepancies/comments section: ☐ YES ☑ NO Samples received from USDA restricted area: ☐ YES ☑ NO
Chain-of-Custody form properly maintained: ☑ YES ☐ NO VOA trip blanks included: ☐ YES ☐ NO ☑ N/A

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments

6.0 SHIPPING DOCUMENTATION:

Air/freight bill is available and attached to COC: ☑ YES ☐ NO Air bill #: _____

Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

_____

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____

Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Project Management: [signature] Date: 2/11/04

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SEVERN TRENT **STL**

STL Austin
I4B150145

No. 17870

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER: Encycle
SEND REPORT TO:	**BILLING INFORMATION**
ADDRESS:	BILL TO: same
	ADDRESS:
PHONE: 361/289-2673	PHONE:
FAX: 361/289-2471	FAX: PO NO:

LAB JOB NO.

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS METHOD REQUEST: CL, TI (6020)							REMARKS/PRECAUTIONS
	222999-3	2/3/04	1455	W	P250	HNO3	1	X							3.0° 2:50 4 CL

SAMPLER: SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☒ OTHER 2/10/04

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Olga Veronica McDonald	2/4/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 14:03	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	2-5-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 0900	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

17

SEVERN TRENT **STL**

STL Austin
I4B050145

No. 17870

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER: Encycle
SEND REPORT TO:	**BILLING INFORMATION**
ADDRESS:	BILL TO:
	ADDRESS: same
PHONE: 361/289-2673	PHONE:
FAX: 361/289-2471	FAX: PO NO:

LAB JOB NO.

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS METHOD REQUESTED: Cd + Tl (6020)							REMARKS/PRECAUTIONS
	222999-3	2/3/04	1455	W	P250	HNO3	1	X							3.0° 2-5-04 cl

SAMPLER: SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☒ OTHER 2/10/04

RELINQUISHED BY	DATE	RELINQUISHED BY	DATE	RELINQUISHED BY	DATE
SIGNATURE: Olga Veronica McDonald	2/4/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME: 14:03	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
RECEIVED BY	DATE	**RECEIVED BY**	DATE	**RECEIVED BY**	DATE
SIGNATURE:	2-5-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 0900	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

End of

Subcontract Laboratory

Report(s)

SEVERN TRENT STL

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 02/18/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:
Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND = Not detected at a value greater than the reporting limit
TNTC = Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard
CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

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SEVERN TRENT STL

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 02/18/2004

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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A..CADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name: Encycle

Project Location: Corpus Christi, TX

Laboratory: STL Corpus Christi

Project Manager: Ken Brandner

Sampler(s)/Affiliation: Ken Brandner / ARCADIS

222999
2.5°C

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	As, Ba, Cd, Cr, Pb, Hg, Se, Silver (16 oz. poly w/HNO3)		Total lead (16 oz. poly w/HNO3)					Remarks	Total
Tank 605037	L	2/3/04 1400		1								1
Tank 605036	L	1430		1								1
Fac 3 Permitted Floor	L	1455				1						1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 3

Relinquished by: Ken Brandner	Organization: ARCADIS	Date 2/3/04	Time 1578	Seal Intact?	
Received by: [signature]	Organization: STL-CC	Date 2/3/04	Time 1578	Yes No (N/A)	
Relinquished by:	Organization:	Date / /	Time	Seal Intact?	
Received by:	Organization:	Date / /	Time	Yes No N/A	

Special Instructions/Remarks: Samples delivered in cooler with ice. Normal turnaround. Results to Rich Marcus and Ken Brandner. Invoice to Rich Marcus.

Delivery Method: ☒ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

SEVERN TRENT STL

RECEIVED
MAR 09 2004
BY:

ANALYTICAL REPORT

JOB NUMBER: 223207

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 03/05/2004

Signature

Date 3/5/04

Name: Chip Meador

Title: Laboratory Director

E-Mail: cmeador@stl-inc.com

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 9

SEVERN TRENT STL

CASE NARRATIVE

Job Number 223207

March 5, 2004

Total Cadmium Analysis

Sample 223207-1 was analyzed for total cadmium using EPA Method 6010B. The low calibration standard for this compound is 0.01 mg/L. The requested reporting limit is below the low calibration standard. Results reported below the low calibration standard should be J-flagged.

Please contact me at 361-289-2673 or omcdonald@stl-inc.com if you have any questions regarding this report or if we can be of further assistance.

Olga Verónica McDonald

Olga Verónica McDonald
Project Manager

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 03/05/2004

Job Number.: 223207
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000084
Customer Project ID....: ENCYCLE
Project Description....: Project - OVM

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
223207-1	FAC 3 PERMITTED FLOOR	Water	02/12/2004	14:00	02/12/2004	16:52

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 223207

Date: 03/05/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE ATTN: Richard Marcus

Customer Sample ID: FAC 3 PERMITTED FLOOR
Date Sampled.....: 02/12/2004
Time Sampled.....: 14:00
Sample Matrix.....: Water

Laboratory Sample ID: 223207-1
Date Received.....: 02/12/2004
Time Received.....: 16:52

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 6010B	Cadmium (Cd), Total	0.043	0.005	mg/L	02/15/04	jem
SW-846 6010B	Lead (Pb), Total	0.07	0.01	mg/L	02/15/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			02/13/04	hmz

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 223207 | Report Date.: 03/05/2004

CUSTOMER: Encycle Texas, Inc. | PROJECT: ENCYCLE | ATTN: Richard Marcus

Test Method.....: SW-846 6010B | Batch.....: 90117 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: CD
Parameter.....: Cadmium (Cd)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.02749301		2.00		101.4	%	90-110	02/15/2004	1137
ICV		M0368	1.07942681		1.00		107.9	%	90-110	02/15/2004	1155
ICV		M0356	1.08001010		1.00		108.0	%	90-110	02/15/2004	1211
ICB			-0.0009729							02/15/2004	1229
ICB			-0.0009036							02/15/2004	1242
CCV		M0379	1.05426823		1.00		105.4	%	90-110	02/15/2004	1248
MB		3050	-0.0010768							02/15/2004	1303
LCS		M348	0.51168026		0.500		102.3	%	87-110	02/15/2004	1310
MS	223215-1	M348	0.63803526		0.500	0.14270634	99.1	%	75-125	02/15/2004	1323
MSD	223215-1	M348	0.62240863	0.63803526	0.500	0.14270634	95.9	%	75-125	02/15/2004	1329
							2.5	R	20		
CCV		M0379	1.02446103		1.00		102.4	%	90-110	02/15/2004	1412
CCB			-0.0009905							02/15/2004	1423
MB		3010	-0.0009979							02/15/2004	1429
LCS		M348	0.53197366		0.500		106.4	%	87-110	02/15/2004	1433
MS	223190-1	M348	0.53130773		0.500	-0.0011435	106.5	%	75-125	02/15/2004	1452
MSD	223190-1	M348	0.52677840	0.53130773	0.500	-0.0011435	105.6	%	75-125	02/15/2004	1458
							0.9	R	20		
CCV		M0379	1.05310522		1.00		105.3	%	90-110	02/15/2004	1504
CCB			-0.0010465							02/15/2004	1509

Test Method.....: SW-846 6010B | Batch.....: 90117 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.04741266		2.00		102.4	%	90-110	02/15/2004	1137
ICV		M0368	1.09588096		1.00		109.6	%	90-110	02/15/2004	1155
ICB			-0.0061173							02/15/2004	1229
ICB			-0.0050676							02/15/2004	1242
CCV		M0379	1.06033426		1.00		106.0	%	90-110	02/15/2004	1248
MB		3050	-0.0061270							02/15/2004	1303
LCS		M348	0.53212841		0.500		106.4	%	87-112	02/15/2004	1310
MS	223215-1	M348	2.60814296		0.500	2.19316346	83.0	%	75-125	02/15/2004	1323
MSD	223215-1	M348	2.60197647	2.60814296	0.500	2.19316346	81.8	%	75-125	02/15/2004	1329
							0.2	R	20		
CCV		M0379	1.05768978		1.00		105.8	%	90-110	02/15/2004	1412
CCB			-0.0059695							02/15/2004	1423
MB		3010	-0.0070979							02/15/2004	1429
LCS		M348	0.54353232		0.500		108.7	%	87-112	02/15/2004	1433
MS	223190-1	M348	0.54825641		0.500	0.01975273	105.7	%	75-125	02/15/2004	1452
MSD	223190-1	M348	0.54690203	0.54825641	0.500	0.01975273	105.4	%	75-125	02/15/2004	1458
							0.2	R	20		
CCV		M0379	1.06631424		1.00		106.6	%	90-110	02/15/2004	1504
CCB			-0.0062073							02/15/2004	1509

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 03/05/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:
Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND = Not detected at a value greater than the reporting limit
TNTC = Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard
CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 03/05/2004

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name: Encycle

Project Location: Corpus Christi, TX

Laboratory: STL

Project Manager: Ken Brandner

Sampler(s)/Affiliation: Ken Brandner / ARCADIS

2.0°C

223207

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Total Lead & Cadmium (1 pt. poly w/ HNO3)						Remarks	Total
Fac. 3 Permitted Flow	L	2-12-04 14:00		X							1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 1

Relinquished by: Ken Brandner	Organization: ARCADIS	Date 2/12/04	Time 1652	Seal Intact? Yes No N/A
Received by: Cheyenne Whitten	Organization: STL-CC	Date 2/12/04	Time 1652	
Relinquished by:	Organization:	Date / /	Time	Seal Intact? Yes No N/A
Received by:	Organization:	Date / /	Time	

Special Instructions/Remarks: Results to Ken Brandner. Invoice to Rich Marcus of Encycle

Delivery Method: ☒ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

SEVERN TRENT STL

ANALYTICAL REPORT

JOB NUMBER: 223447

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 03/10/2004

Signature

Date 3/11/04

Name: Chip Meador

Title: Laboratory Director

E-Mail: cmeador@stl-inc.com

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 9

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 03/10/2004

Job Number.: 223447
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000084
Customer Project ID....: TEXAS TRUST FUND
Project Description....: Project - OVM

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
223447-1	FAC.3 PERMITTED FLOOR	Water	02/26/2004	16:00	02/26/2004	16:16

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 223447

Date: 03/10/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: TEXAS TRUST FUND ATTN: Richard Marcus

Customer Sample ID: FAC.3 PERMITTED FLOOR
Date Sampled.....: 02/26/2004
Time Sampled.....: 16:00
Sample Matrix.....: Water

Laboratory Sample ID: 223447-1
Date Received.....: 02/26/2004
Time Received.....: 16:16

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 6010B	Cadmium (Cd), Total	0.018	0.005	mg/L	03/03/04	jem
SW-846 6010B	Lead (Pb), Total	0.08	0.01	mg/L	03/03/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			03/02/04	hmz

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 223447 Report Date.: 03/10/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: TEXAS TRUST FUND ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 90765 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CD
Parameter.....: Cadmium (Cd)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.98118765		2.00		99.1	%	90-110	03/02/2004	2207
ICV		M0368	0.97991694		1.00		98.0	%	90-110	03/02/2004	2221
ICV		M0380	0.93823142		1.00		93.8	%	90-110	03/02/2004	2234
ICB			0.00029282							03/02/2004	2251
CCV		M0379	0.99001865		1.00		99.0	%	90-110	03/02/2004	2306
CCB			0.00027970							03/02/2004	2316
MB		3010.	0.00038404							03/02/2004	2325
LCS		M348	0.49754309		0.500		99.5	%	87-110	03/02/2004	2329
MB		3010	0.00036533							03/02/2004	2350
LCS		M348	0.49242684		0.500		98.5	%	87-110	03/02/2004	2356
CCV		M0379	0.98633229		1.00		98.6	%	90-110	03/03/2004	0001
CCB			0.00033024							03/03/2004	0011
MS	223456-2	M348	0.49036386		0.500	0.00017795	98.0	%	75-125	03/03/2004	0028
MSD	223456-2	M348	0.48353198	0.49036386	0.500	0.00017795	96.7	%	75-125	03/03/2004	0033
							1.4	R	20		
CCV		M0379	0.98517933		1.00		98.5	%	90-110	03/03/2004	0038
CCB			0.00035775							03/03/2004	0048
CCV		M0379	0.98887436		1.00		98.9	%	90-110	03/03/2004	0130
CCB			0.00043472							03/03/2004	0140
MB		3050	0.00023202							03/03/2004	0212
CCV		M0379	0.96382205		1.00		96.4	%	90-110	03/03/2004	0219
CCB			0.00043326							03/03/2004	0229
LCS		M348	0.45376815		0.500		90.8	%	87-110	03/03/2004	0235
MS	223514-1	M348	0.54741263		0.500	0.10962068	87.6	%	75-125	03/03/2004	0250
MSD	223514-1	M348	0.52149981	0.54741263	0.500	0.10962068	82.4	%	75-125	03/03/2004	0256
							4.8	R	20		
CCV		M0379	0.94843753		1.00		94.8	%	90-110	03/03/2004	0317
CCB			0.00070631							03/03/2004	0327
CCV		M0379	0.93877703		1.00		93.9	%	90-110	03/03/2004	0402
CCB			0.00064230							03/03/2004	0416

Test Method.....: SW-846 6010B Batch.....: 90765 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	2.03677912		2.00		101.8	%	90-110	03/02/2004	2207
ICV		M0368	1.01148453		1.00		101.1	%	90-110	03/02/2004	2221
ICV		M0380	1.02443781		1.00		102.4	%	90-110	03/02/2004	2234
ICB			-0.0002097							03/02/2004	2251
CCV		M0379	1.01722468		1.00		101.7	%	90-110	03/02/2004	2306
CCB			0.00019144							03/02/2004	2316
MB		3010.	-0.0017083							03/02/2004	2325
LCS		M348	0.51881109		0.500		103.8	%	87-112	03/02/2004	2329
MB		3010	-0.0004421							03/02/2004	2350
LCS		M348	0.51528419		0.500		103.1	%	87-112	03/02/2004	2356
CCV		M0379	1.00773502		1.00		100.8	%	90-110	03/03/2004	0001
CCB			-0.0015220							03/03/2004	0011
MS	223456-2	M348	0.50067451		0.500	0.00913644	98.3	%	75-125	03/03/2004	0028
MSD	223456-2	M348	0.49202959	0.50067451	0.500	0.00913644	96.6	%	75-125	03/03/2004	0033
							1.7	R	20		

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 223447 Report Date.: 03/10/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: TEXAS TRUST FUND ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 90765 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0379	1.00814928		1.00		100.8	%	90-110	03/03/2004	0038
CCB			-0.0013584							03/03/2004	0048
CCV		M0379	1.01236967		1.00		101.2	%	90-110	03/03/2004	0130
CCB			0.00047786							03/03/2004	0140
MB		3050	-0.0001098							03/03/2004	0212
CCV		M0379	1.00607770		1.00		100.6	%	90-110	03/03/2004	0219
CCB			0.00004996							03/03/2004	0229
LCS		M348	0.47560551		0.500		95.1	%	87-112	03/03/2004	0235
MS	223514-1	M348	1.15785853		0.500	0.73360650	84.9	%	75-125	03/03/2004	0250
MSD	223514-1	M348	0.98129933	1.15785853	0.500	0.73360650	49.5	%	75-125	03/03/2004	0256
							16.5	R	20		
CCV		M0379	0.99435565		1.00		99.4	%	90-110	03/03/2004	0317
CCB			0.00136625							03/03/2004	0327
CCV		M0379	0.99377651		1.00		99.4	%	90-110	03/03/2004	0402
CCB			0.00093860							03/03/2004	0416

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 03/10/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:
Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND = Not detected at a value greater than the reporting limit
TNTC = Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB Method Blank
ICB Initial Calibration Blank
CCB Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS Method (Matrix) Spike
MSD Method (Matrix) Spike Duplicate
PDS Post Digestion/Distillation Spike
SB Spiked Blank
SBD Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS Laboratory Control Standard
RS Reference Standard
ICV Initial Calibration Verification Standard
CCV Continuing Calibration Verification Standard
ISA/ISB ICP Interference Check Sample
DSC Distilled Standard Check

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SEVERN TRENT STL

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 03/10/2004

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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SEVERN TRENT **STL**

No. 22361

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Encycle - Report to ARCADIS	PROJECT NAME/NUMBER:	Texas Trust Fund
SEND REPORT TO:	Ken Brandner / ARCADIS	BILLING INFORMATION	
ADDRESS:	711 N. Carancahua	BILL TO:	Rick Marcus - Encycle
	Corpus Christi, TX 78475	ADDRESS:	
PHONE:	361 883-1353	PHONE:	
FAX:	361 883-2105	FAX:	PO NO:

NUMBER OF CONTAINERS / ANALYSIS/METHOD REQUEST: Total Cd, Pb

17.5°C Just sampled

LAB JOB NO. 223447

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Total Cd, Pb	REMARKS/PRECAUTIONS
Fac 3 Permitted Floor	Fac 3 Permitted Floor	2/26/04	1600	L	1 pt poly	HNO3		1	

SAMPLER: Ken Brandner - ARCADIS

SHIPMENT METHOD: In Person - in cooler w/ice

AIRBILL NO.: N/A

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☒ 10 DAYS ☐ ROUTINE ☐ OTHER _____

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Kenneth Brandner	2/26/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Kenneth Brandner / ARCADIS	TIME 1616	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Olga Veronica Mercado	2/26/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL	TIME 16:16	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

STL8222-560 (12/02)

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

SEVERN TRENT STL

RECEIVED
MAR 18 2004
BY:

ANALYTICAL REPORT

JOB NUMBER: 223631

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 03/12/2004

Signature

Name: Olga V. McDonald

Title: Project Manager

E-Mail: omcdonald@stl-inc.com

Date

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 16

SEVERN TRENT STL

CASE NARRATIVE

Job Number 223631

March 12, 2004

Total Cadmium Analysis

Samples 223631-1 and 2 were analyzed for total cadmium using EPA Method 6010B. The low calibration standard for this compound is 0.01 mg/L. The requested reporting limit is below the low calibration standard. Results reported below the low calibration standard should be J-flagged

Please contact me at 361-289-2673 or omcdonald@stl-inc.com if you have any questions regarding this report or if we can be of further assistance.

Olga Verónica McDonald

Olga Verónica McDonald
Project Manager

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 03/12/2004

Job Number.: 223631
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000084
Customer Project ID....: ENCYCLE RCRA CLOSURE
Project Description....: Project - OVM

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
223631-1	FAC 3 PERMITTED FLOOR	Water	03/08/2004	15:15	03/08/2004	16:44
223631-2	RINSE WATER BLANK	Water	03/08/2004	15:20	03/08/2004	16:44

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 223631

Date: 03/12/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: FAC 3 PERMITTED FLOOR
Date Sampled.....: 03/08/2004
Time Sampled.....: 15:15
Sample Matrix.....: Water

Laboratory Sample ID: 223631-1
Date Received.....: 03/08/2004
Time Received.....: 16:44

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 6010B	Cadmium (Cd), Total	<0.005	0.005	mg/L	03/10/04	jem
SW-846 6010B	Lead (Pb), Total	0.05	0.01	mg/L	03/10/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			03/09/04	hmz

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 223631

Date: 03/12/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: RINSE WATER BLANK
Date Sampled.....: 03/08/2004
Time Sampled.....: 15:20
Sample Matrix.....: Water

Laboratory Sample ID: 223631-2
Date Received.....: 03/08/2004
Time Received.....: 16:44

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 6010B	Cadmium (Cd), Total	<0.005	0.005	mg/L	03/10/04	jem
SW-846 6010B	Lead (Pb), Total	<0.01	0.01	mg/L	03/10/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			03/09/04	hmz

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 223631 Report Date.: 03/12/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 91141 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CD
Parameter.....: Cadmium (Cd)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.99522301		2.00		99.8	%	90-110	03/10/2004	1411
ICV		M0368	1.01797297		1.00		101.8	%	90-110	03/10/2004	1428
ICV		M0380	1.00460863		1.00		100.5	%	90-110	03/10/2004	1444
ICB			-0.0000940							03/10/2004	1502
ICB			0.00032704							03/10/2004	1513
CCV		M0379	0.95609643		1.00		95.6	%	90-110	03/10/2004	1518
CCB			-0.0000059							03/10/2004	1533
MB		3010	-0.0002251							03/10/2004	1536
LCS		M348	0.50641235		0.500		101.3	%	87-110	03/10/2004	1542
MS	223616-6	M348	0.49742310		0.500	0.00001986	99.5	%	75-125	03/10/2004	1552
MSD	223616-6	M348	0.52270273	0.49742310	0.500	0.00001986	104.5	%	75-125	03/10/2004	1558
							5.0	R	20		
CCV		M0379	1.06501739		1.00		106.5	%	90-110	03/10/2004	1632
CCB			-0.0003419							03/10/2004	1637

Test Method.....: SW-846 6010B Batch.....: 91141 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.98117251		2.00		99.1	%	90-110	03/10/2004	1411
ICV		M0368	1.03535311		1.00		103.5	%	90-110	03/10/2004	1428
ICV		M0380	1.01758348		1.00		101.8	%	90-110	03/10/2004	1444
ICB			0.00032448							03/10/2004	1502
ICB			0.00122306							03/10/2004	1513
CCV		M0379	0.96776623		1.00		96.8	%	90-110	03/10/2004	1518
CCB			0.00261279							03/10/2004	1533
MB		3010	-0.0024156							03/10/2004	1536
LCS		M348	0.51181892		0.500		102.4	%	87-112	03/10/2004	1542
MS	223616-6	M348	0.47230700		0.500	0.00357089	93.7	%	75-125	03/10/2004	1552
MSD	223616-6	M348	0.50067109	0.47230700	0.500	0.00357089	99.4	%	75-125	03/10/2004	1558
							5.8	R	20		
CCV		M0379	1.03260508		1.00		103.3	%	90-110	03/10/2004	1632
CCB			0.00089172							03/10/2004	1637

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 03/12/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:
Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND = Not detected at a value greater than the reporting limit
TNTC = Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB Method Blank
ICB Initial Calibration Blank
CCB Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS Method (Matrix) Spike
MSD Method (Matrix) Spike Duplicate
PDS Post Digestion/Distillation Spike
SB Spiked Blank
SBD Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS Laboratory Control Standard
RS Reference Standard
ICV Initial Calibration Verification Standard
CCV Continuing Calibration Verification Standard
ISA/ISB ICP Interference Check Sample
DSC Distilled Standard Check

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 03/12/2004

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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SEVERN TRENT **STL**

No. 2235E

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: Encycle	PROJECT NAME/NUMBER: Encycle RCRA Closure
SEND REPORT TO: Ken Brandner	**BILLING INFORMATION**
ADDRESS: 711 N. Carancahua	BILL TO: Encycle
Corpus Christi, TX	ADDRESS:
PHONE: 361-883-1353	PHONE:
FAX: 361-883-2565	FAX: PO NO:

2.2°C

LAB JOB NO. 223031

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS METHOD REQUIRED: Total Cd, Pb	REMARKS/PRECAUTIONS
Fac. 3 Permitted Floor	Fac 3 Permitted Floor	3/8/04	3:15	L	1 pt poly	HNO_3			Need 0.005 mg/L
Rinse Water	Rinse Water Blank	↓	3:20	L	↓	↓			D.L on Cd,
									0.015 mg/L or
									lower on Pb.

SAMPLER: Ken Brandner / ARCADIS SHIPMENT METHOD: In Person AIRBILL NO.: NA

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☒ 10 DAYS ☐ ROUTINE ☐ OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Kenneth Brandner	3/8/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Kenneth Brandner / ARCADIS	TIME 1644	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	**DATE**	**2. RECEIVED BY:**	**DATE**	**3. RECEIVED BY:**	**DATE**
SIGNATURE: [illegible]	3/8/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL-CC	TIME 1644	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

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Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

SEVERN TRENT STL

ANALYTICAL REPORT

JOB NUMBER: 223955

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 04/06/2004

Signature

Date 4/6/04

Name: Chip Meador

Title: Laboratory Director

E-Mail: cmeador@stl-inc.com

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 8

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 04/06/2004

Job Number.: 223955
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000084
Customer Project ID....: ENCYCLE RCRA CLOSURE
Project Description....: Project - OVM

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
223955-1	FAC 3 PERMITTED FLOOR	Water	03/25/2004	13:45	03/25/2004	16:48

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 223955

Date: 04/06/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: ENCYCLE RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: FAC 3 PERMITTED FLOOR
Date Sampled.....: 03/25/2004
Time Sampled.....: 13:45
Sample Matrix.....: Water

Laboratory Sample ID: 223955-1
Date Received.....: 03/25/2004
Time Received.....: 16:48

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 6010B	Lead (Pb), Total	0.034	0.015	mg/L	03/29/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			03/26/04	hmz

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 223955 | Report Date.: 04/06/2004

CUSTOMER: Encycle Texas, Inc. | PROJECT: ENCYCLE RCRA CLOSURE | ATTN: Richard Marcus

Test Method.....: SW-846 6010B | Batch.....: 91862 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0370	1.95833060		2.00		97.9	%	90-110	03/29/2004	1217
ICV		M0368	1.01804299		1.00		101.8	%	90-110	03/29/2004	1232
ICV		M0380	1.03270960		1.00		103.3	%	90-110	03/29/2004	1249
ICB			-0.0043959							03/29/2004	1307
CCV		M0379	1.01651735		1.00		101.7	%	90-110	03/29/2004	1330
CCB			-0.0021470							03/29/2004	1340
MB		3010	-0.0037107							03/29/2004	1347
LCS		M348	0.45167929		0.500		90.3	%	87-112	03/29/2004	1354
CCV		M0379	1.01438188		1.00		101.4	%	90-110	03/29/2004	1434
CCB			-0.0011546							03/29/2004	1450
MB		3010	-0.0016552							03/29/2004	1456
LCS		M348	0.50928706		0.500		101.9	%	87-112	03/29/2004	1500
CCV		M0379	1.00890579		1.00		100.9	%	90-110	03/29/2004	1517
CCB			-0.0026544							03/29/2004	1527
MS	223955-1	M348	0.46664681		0.500	0.03322490	86.7	%	75-125	03/29/2004	1605
MSD	223955-1	M348	0.43836848	0.46664681	0.500	0.03322490	81.0	%	75-125	03/29/2004	1610
							6.2	R	20		
CCV		M0379	1.02574438		1.00		102.6	%	90-110	03/29/2004	1719
CCB			0.00202314							03/29/2004	1733
MB		3010	-0.0013125							03/29/2004	1757
LCS		M348	0.51883558		0.500		103.8	%	87-112	03/29/2004	1800
CCV		M0379	1.02504035		1.00		102.5	%	90-110	03/29/2004	1827
CCB			-0.0018496							03/29/2004	1844
MB		3010	-0.0012186							03/29/2004	1928
CCV		M0379	1.01406371		1.00		101.4	%	90-110	03/29/2004	1940
CCB			-0.0027476							03/29/2004	1954
LCS		M348	0.49939719		0.500		99.9	%	87-112	03/29/2004	1957
CCV		M0379	1.01485838		1.00		101.5	%	90-110	03/29/2004	2046
CCB			-0.0048601							03/29/2004	2100
MS	223963-4	M348	0.47324762		0.500	-0.0032834	95.3	%	75-125	03/29/2004	2114
MSD	223963-4	M348	0.48960214	0.47324762	0.500	-0.0032834	98.6	%	75-125	03/29/2004	2119
							3.4	R	20		
CCV		M0379	1.02876568		1.00		102.9	%	90-110	03/29/2004	2154
CCB			-0.0070590							03/29/2004	2208

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 04/06/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:
Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND = Not detected at a value greater than the reporting limit
TNTC = Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard
CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

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SEVERN TRENT STL

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 04/06/2004

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page ___ of 1

Project Number/Name: RCRA Closure

Project Location: Encycle Corpus Christi

Laboratory: STL

Project Manager: Ken Brancher

Sampler(s)/Affiliation: Ken Brancher / ARCADIS

6.5°C
Just Sampled
223955

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Total Lead (1 pt poly w/ HNO3)						Remarks	Total
Fac. 3 Permitted Floor	L	3/25/04 1:45		1							1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 1

Relinquished by: Ken Brancher	Organization: ARCADIS	Date 3/25/04	Time 16:48	Seal Intact?
Received by: [illegible]	Organization: STL-CC	Date 3/25/04	Time 1648	Yes No N/A
Relinquished by:	Organization:	Date / /	Time	Seal Intact?
Received by:	Organization:	Date / /	Time	Yes No N/A

Special Instructions/Remarks:
Normal Turnaround. Need 0.015 mg/L detection limit
Send Invoice to Rich Marcus of Encycle - RCRA Closure

Delivery Method: ☒ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

SEVERN TRENT STL

RECEIVED
OCT 25 2004
BY:

ANALYTICAL REPORT

JOB NUMBER: 227055

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 10/20/2004

Signature

Name: Chip Meador

Title: Laboratory Director

E-Mail: cmeador@stl-inc.com

10/20/04
Date

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 44

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 10/20/2004

Job Number.: 227055
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000353
Customer Project ID....: RCRA CLOSURE
Project Description....: Encycle

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
227055-1	REC BLDG W SUMP	Water	10/06/2004	14:00	10/06/2004	16:21
227055-2	REC BLDG E SUMP	Water	10/06/2004	14:00	10/06/2004	16:21
227055-3	REC BLDG CENTER	Water	10/06/2004	15:00	10/06/2004	16:21

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 227055

Date: 10/20/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: REC BLDG W SUMP
Date Sampled.....: 10/06/2004
Time Sampled.....: 14:00
Sample Matrix.....: Water

Laboratory Sample ID: 227055-1
Date Received.....: 10/06/2004
Time Received.....: 16:21

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	10/12/04	hmz
SW-846 6010B	Arsenic (As), Total	<0.01	0.01	mg/L	10/11/04	jem
SW-846 6010B	Barium (Ba), Total	<0.01	0.01	mg/L	10/11/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	10/11/04	jem
SW-846 6010B	Cobalt (Co), Total	<0.01	0.01	mg/L	10/11/04	jem
SW-846 6010B	Copper (Cu), Total	0.02	0.01	mg/L	10/11/04	jem
SW-846 6010B	Lead (Pb), Total	<0.015	0.015	mg/L	10/11/04	jem
SW-846 6010B	Manganese (Mn), Total	<0.01	0.01	mg/L	10/11/04	jem
SW-846 6010B	Nickel (Ni), Total	0.02	0.01	mg/L	10/11/04	jem
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	10/11/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	10/11/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	10/11/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	10/11/04	jem
SW-846 6010B	Zinc (Zn), Total	0.12	0.01	mg/L	10/15/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			10/08/04	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 227055

Date: 10/20/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: REC BLDG E SUMP
Date Sampled.....: 10/06/2004
Time Sampled.....: 14:00
Sample Matrix.....: Water

Laboratory Sample ID: 227055-2
Date Received.....: 10/06/2004
Time Received.....: 16:21

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	10/12/04	hmz
SW-846 6010B	Arsenic (As), Total	<0.01	0.01	mg/L	10/11/04	jem
SW-846 6010B	Barium (Ba), Total	<0.01	0.01	mg/L	10/11/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	10/11/04	jem
SW-846 6010B	Cobalt (Co), Total	<0.01	0.01	mg/L	10/11/04	jem
SW-846 6010B	Copper (Cu), Total	<0.01	0.01	mg/L	10/11/04	jem
SW-846 6010B	Lead (Pb), Total	<0.015	0.015	mg/L	10/11/04	jem
SW-846 6010B	Manganese (Mn), Total	<0.01	0.01	mg/L	10/11/04	jem
SW-846 6010B	Nickel (Ni), Total	<0.01	0.01	mg/L	10/11/04	jem
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	10/11/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	10/11/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	10/11/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	10/11/04	jem
SW-846 6010B	Zinc (Zn), Total	0.03	0.01	mg/L	10/15/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			10/08/04	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 227055

Date: 10/20/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: REC BLDG CENTER
Date Sampled.....: 10/06/2004
Time Sampled.....: 15:00
Sample Matrix.....: Water

Laboratory Sample ID: 227055-3
Date Received.....: 10/06/2004
Time Received.....: 16:21

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7470A	Mercury (Hg), Total	<0.002	0.002	mg/L	10/12/04	hmz
SW-846 6010B	Arsenic (As), Total	<0.01	0.01	mg/L	10/11/04	jem
SW-846 6010B	Barium (Ba), Total	0.02	0.01	mg/L	10/11/04	jem
SW-846 6010B	Chromium (Cr), Total	<0.01	0.01	mg/L	10/11/04	jem
SW-846 6010B	Cobalt (Co), Total	<0.01	0.01	mg/L	10/11/04	jem
SW-846 6010B	Copper (Cu), Total	0.04	0.01	mg/L	10/11/04	jem
SW-846 6010B	Lead (Pb), Total	0.018	0.015	mg/L	10/11/04	jem
SW-846 6010B	Manganese (Mn), Total	<0.01	0.01	mg/L	10/11/04	jem
SW-846 6010B	Nickel (Ni), Total	0.02	0.01	mg/L	10/11/04	jem
SW-846 6010B	Selenium (Se), Total	<0.01	0.01	mg/L	10/11/04	jem
SW-846 6010B	Silver (Ag), Total	<0.005	0.005	mg/L	10/11/04	jem
SW-846 6010B	Tin (Sn), Total	<0.02	0.02	mg/L	10/11/04	jem
SW-846 6010B	Vanadium (V), Total	<0.01	0.01	mg/L	10/11/04	jem
SW-846 6010B	Zinc (Zn), Total	0.11	0.01	mg/L	10/15/04	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			10/08/04	ac

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 227055 | Report Date.: 10/20/2004

CUSTOMER: Encycle Texas, Inc. | PROJECT: RCRA CLOSURE | ATTN: Richard Marcus

Test Method.....: SW-846 7470A | Batch.....: 99085 | Analyst...: hmz
Method Description.: Mercury (CVAA) | Units.....: mg/L | Test Code.: HG
Parameter.....: Mercury (Hg)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M41012HG	0.00479		0.00500		95.8	%	90-110	10/12/2004	1223
ICB			-0.00006							10/12/2004	1225
MB			0.000118							10/12/2004	1231
CCV		M41012HG	0.00466		0.00500		93.2	%	80-120	10/12/2004	1305
CCB			-0.000100							10/12/2004	1307
LCS		M41012LG	0.004599		0.0050		92.0	%	85-115	10/12/2004	1311
MB			-0.000110							10/12/2004	1313
MS	227049-1	M41012HG	0.00501		0.00500	-0.000023	100.7	%	75-130	10/12/2004	1317
MSD	227049-1	M41012HG	0.00450	0.00501	0.00500	-0.000023	90.5	%	75-130	10/12/2004	1319
							10.7	R	20		
CCV		M41012HG	0.00472		0.00500		94.4	%	80-120	10/12/2004	1340
CCB			-0.000087							10/12/2004	1342
CCV		M41012HG	0.00465		0.00500		93.0	%	80-120	10/12/2004	1405
CCB			-0.000022							10/12/2004	1407
LCS		M41012LG	0.00495		0.0050		99.0	%	85-115	10/12/2004	1412
MB			0.000060							10/12/2004	1414
CCV		M41012HG	0.00483		0.00500		96.6	%	80-120	10/12/2004	1437
CCB			0.000140							10/12/2004	1439
MB			0.000135							10/12/2004	1453
MS	227017-1	M41012HG	0.00427		0.00500	0.000303	79.3	%	75-130	10/12/2004	1458
MSD	227017-1	M41012HG	0.00411	0.00427	0.00500	0.000303	76.1	%	75-130	10/12/2004	1500
							3.8	R	20		
CCV		M41012HG	0.00461		0.00500		92.2	%	80-120	10/12/2004	1504
CCB			-0.000000							10/12/2004	1506
MB			-0.000006							10/12/2004	1508

Test Method.....: SW-846 6010B | Batch.....: 99059 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.00504425		2.00		100.3	%	90-110	10/10/2004	1605
ICV		M0368	1.00840790		1.00		100.8	%	90-110	10/10/2004	1614
ICV		M0380	0.94932284		1.00		94.9	%	90-110	10/10/2004	1623
ICB			0.00115822							10/10/2004	1649
ICV		M0393	0.49448931		0.500		98.9	%	90-110	10/10/2004	1652
CCV		M0388	1.03118907		1.00		103.1	%	90-110	10/10/2004	1658
CCB			-0.0015085							10/10/2004	1710
MB		3010	0.00206769							10/10/2004	1753
LCS		M351	0.50085314		0.500		100.2	%	80-120	10/10/2004	1802
MS	227091-2	M351	0.57051300		0.500	0.00294880	113.5	%	75-125	10/10/2004	1822
MSD	227091-2	M351	0.56333149	0.57051300	0.500	0.00294880	112.1	%	75-125	10/10/2004	1827
							1.3	R	20		
CCV		M0388	1.02223430		1.00		102.2	%	90-110	10/10/2004	1840
CCB			-0.0020448							10/10/2004	1852
CCV		M0388	1.02543617		1.00		102.5	%	90-110	10/10/2004	1935
CCB			-0.0022363							10/10/2004	1947
MB		3010	-0.0035451							10/10/2004	2012
LCS		M351	0.51675524		0.500		103.4	%	80-120	10/10/2004	2020
CCV		M0388	1.03624918		1.00		103.6	%	90-110	10/10/2004	2032
CCB			-0.0022858							10/10/2004	2044

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 227055 | Report Date.: 10/20/2004

CUSTOMER: Encycle Texas, Inc. | PROJECT: RCRA CLOSURE | ATTN: Richard Marcus

Test Method.....: SW-846 6010B | Batch.....: 99059 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MS	227123-10	M351	0.53170029		0.500	-0.0036245	107.1	%	75-125	10/10/2004	2112
MSD	227123-10	M351	0.51737216	0.53170029	0.500	-0.0036245	104.2	%	75-125	10/10/2004	2117
							2.7	R	20		
CCV		M0388	1.03191875		1.00		103.2	%	90-110	10/10/2004	2133
CCB			-0.0020320							10/10/2004	2145
CCV		M0388	1.04193675		1.00		104.2	%	90-110	10/10/2004	2221
CCB			-0.0036805							10/10/2004	2233
MB		3010	-0.0027125							10/10/2004	2247
MS	227133-1	M351	0.59421186		0.500	0.00164183	118.5	%	75-125	10/10/2004	2310
MSD	227133-1	M351	0.60119765	0.59421186	0.500	0.00164183	119.9	%	75-125	10/10/2004	2315
							1.2	R	20		
CCV		M0388	1.04125104		1.00		104.1	%	90-110	10/10/2004	2321
CCB			-0.0023710							10/10/2004	2333
MB		3010	-0.0032582							10/10/2004	2336
LCS		M351	0.52549818		0.500		105.1	%	80-120	10/10/2004	2343
MS	227111-1	M351	0.56184741		0.500	-0.0005838	112.5	%	75-125	10/11/2004	0010
CCV		M0388	1.04560568		1.00		104.6	%	90-110	10/11/2004	0015
CCB			-0.0030724							10/11/2004	0027
MSD	227111-1	M351	0.55487269	0.56184741	0.500	-0.0005838	111.1	%	75-125	10/11/2004	0031
							1.2	R	20		
CCV		M0388	1.05028057		1.00		105.0	%	90-110	10/11/2004	0108
CCB			-0.0027234							10/11/2004	0120
CCV		M0388	1.03891362		1.00		103.9	%	90-110	10/11/2004	0215
CCB			-0.0045015							10/11/2004	0227

Test Method.....: SW-846 6010B | Batch.....: 99059 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.99814834		2.00		99.9	%	90-110	10/10/2004	1605
ICV		M0369	1.01833207		1.00		101.8	%	90-110	10/10/2004	1619
ICB			0.00026301							10/10/2004	1649
ICV		M0393	0.50023871		0.500		100.0	%	90-110	10/10/2004	1652
CCV		M0388	1.02462951		1.00		102.5	%	90-110	10/10/2004	1658
CCB			0.00001179							10/10/2004	1710
MB		3010	-0.0000472							10/10/2004	1753
LCS		M351	0.50379614		0.500		100.8	%	80-120	10/10/2004	1802
MS	227091-2	M351	0.54435285		0.500	0.03085523	102.7	%	75-125	10/10/2004	1822
MSD	227091-2	M351	0.54722845	0.54435285	0.500	0.03085523	103.3	%	75-125	10/10/2004	1827
							0.5	R	20		
CCV		M0388	1.01905248		1.00		101.9	%	90-110	10/10/2004	1840
CCB			0.00013506							10/10/2004	1852
CCV		M0388	1.01723691		1.00		101.7	%	90-110	10/10/2004	1935
CCB			0.00027059							10/10/2004	1947
MB		3010	0.00039208							10/10/2004	2012
LCS		M351	0.51515976		0.500		103.0	%	80-120	10/10/2004	2020
CCV		M0388	1.01931893		1.00		101.9	%	90-110	10/10/2004	2032
CCB			0.00018686							10/10/2004	2044
MS	227123-10	M351	0.53033310		0.500	0.00055849	106.0	%	75-125	10/10/2004	2112
MSD	227123-10	M351	0.51858303	0.53033310	0.500	0.00055849	103.6	%	75-125	10/10/2004	2117
							2.2	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 227055 | Report Date.: 10/20/2004

CUSTOMER: Encycle Texas, Inc. | PROJECT: RCRA CLOSURE | ATTN: Richard Marcus

Test Method.....: SW-846 6010B | Batch.....: 99059 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	1.01770077		1.00		101.8	%	90-110	10/10/2004	2133
CCB			0.00002388							10/10/2004	2145
CCV		M0388	1.02573426		1.00		102.6	%	90-110	10/10/2004	2221
CCB			0.00014019							10/10/2004	2233
MB		3010	0.00014184							10/10/2004	2247
MS	227133-1	M351	0.56978582		0.500	0.05067508	103.8	%	75-125	10/10/2004	2310
MSD	227133-1	M351	0.57670127	0.56978582	0.500	0.05067508	105.2	%	75-125	10/10/2004	2315
							1.2	R	20		
CCV		M0388	1.02488171		1.00		102.5	%	90-110	10/10/2004	2321
CCB			0.00013820							10/10/2004	2333
MB		3010	0.00003048							10/10/2004	2336
LCS		M351	0.52189312		0.500		104.4	%	80-120	10/10/2004	2343
MS	227111-1	M351	0.63264421		0.500	0.11647886	103.2	%	75-125	10/11/2004	0010
CCV		M0388	1.01861402		1.00		101.9	%	90-110	10/11/2004	0015
CCB			0.00034059							10/11/2004	0027
MSD	227111-1	M351	0.63035515	0.63264421	0.500	0.11647886	102.8	%	75-125	10/11/2004	0031
							0.4	R	20		
V		M0388	1.01894084		1.00		101.9	%	90-110	10/11/2004	0108
CCB			0.00001739							10/11/2004	0120
CCV		M0388	1.02077160		1.00		102.1	%	90-110	10/11/2004	0215
CCB			0.00052665							10/11/2004	0227

Test Method.....: SW-846 6010B | Batch.....: 99059 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.97884010		2.00		98.9	%	90-110	10/10/2004	1605
ICV		M0368	0.99941412		1.00		99.9	%	90-110	10/10/2004	1614
ICV		M0380	0.98462981		1.00		98.5	%	90-110	10/10/2004	1623
ICB			0.00021563							10/10/2004	1649
ICV		M0393	0.49063749		0.500		98.1	%	90-110	10/10/2004	1652
CCV		M0388	1.00903668		1.00		100.9	%	90-110	10/10/2004	1658
CCB			0.00003137							10/10/2004	1710
MB		3010	-0.0001070							10/10/2004	1753
LCS		M351	0.49501145		0.500		99.0	%	80-120	10/10/2004	1802
MS	227091-2	M351	2.05393497		0.500	1.50653277	109.5	%	75-125	10/10/2004	1822
MSD	227091-2	M351	2.05166952	2.05393497	0.500	1.50653277	109.0	%	75-125	10/10/2004	1827
							0.1	R	20		
CCV		M0388	1.00926402		1.00		100.9	%	90-110	10/10/2004	1840
CCB			0.00033436							10/10/2004	1852
CCV		M0388	1.01640609		1.00		101.6	%	90-110	10/10/2004	1935
CCB			0.00219856							10/10/2004	1947
MB		3010	0.00023057							10/10/2004	2012
LCS		M351	0.51196131		0.500		102.4	%	80-120	10/10/2004	2020
CCV		M0388	1.01754610		1.00		101.8	%	90-110	10/10/2004	2032
CCB			0.00007966							10/10/2004	2044
MS	227123-10	M351	0.52812667		0.500	0.00014757	105.6	%	75-125	10/10/2004	2112
MSD	227123-10	M351	0.51669154	0.52812667	0.500	0.00014757	103.3	%	75-125	10/10/2004	2117
							2.2	R	20		
CCV		M0388	1.01492397		1.00		101.5	%	90-110	10/10/2004	2133

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 227055 | Report Date.: 10/20/2004

CUSTOMER: Encycle Texas, Inc. | PROJECT: RCRA CLOSURE | ATTN: Richard Marcus

Test Method.....: SW-846 6010B | Batch.....: 99059 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0001404							10/10/2004	2145
CCV		M0388	1.02265218		1.00		102.3	%	90-110	10/10/2004	2221
CCB			0.00032345							10/10/2004	2233
MB		3010	-0.0002434							10/10/2004	2247
MS	227133-1	M351	0.52702490		0.500	0.00204565	105.0	%	75-125	10/10/2004	2310
MSD	227133-1	M351	0.53445538	0.52702490	0.500	0.00204565	106.5	%	75-125	10/10/2004	2315
							1.4	R	20		
CCV		M0388	1.02803144		1.00		102.8	%	90-110	10/10/2004	2321
CCB			0.00011257							10/10/2004	2333
MB		3010	-0.0001472							10/10/2004	2336
LCS		M351	0.52449183		0.500		104.9	%	80-120	10/10/2004	2343
MS	227111-1	M351	0.52932175		0.500	0.00057611	105.7	%	75-125	10/11/2004	0010
CCV		M0388	1.02350269		1.00		102.4	%	90-110	10/11/2004	0015
CCB			0.00005951							10/11/2004	0027
MSD	227111-1	M351	0.53038773	0.52932175	0.500	0.00057611	106.0	%	75-125	10/11/2004	0031
							0.2	R	20		
CCV		M0388	1.02506054		1.00		102.5	%	90-110	10/11/2004	0108
B			0.00014020							10/11/2004	0120
V		M0388	1.02482049		1.00		102.5	%	90-110	10/11/2004	0215
CCB			-0.0000165							10/11/2004	0227

Test Method.....: SW-846 6010B | Batch.....: 99059 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.97766775		2.00		98.9	%	90-110	10/10/2004	1605
ICV		M0368	1.01813199		1.00		101.8	%	90-110	10/10/2004	1614
ICV		M0380	1.04223634		1.00		104.2	%	90-110	10/10/2004	1623
ICB			0.00064820							10/10/2004	1649
ICV		M0393	0.50358730		0.500		100.7	%	90-110	10/10/2004	1652
CCV		M0388	1.02677057		1.00		102.7	%	90-110	10/10/2004	1658
CCB			0.00041117							10/10/2004	1710
MB		3010	0.00035179							10/10/2004	1753
LCS		M351	0.50581758		0.500		101.2	%	80-120	10/10/2004	1802
MS	227091-2	M351	0.51378446		0.500	0.00002893	102.8	%	75-125	10/10/2004	1822
MSD	227091-2	M351	0.51568540	0.51378446	0.500	0.00002893	103.1	%	75-125	10/10/2004	1827
							0.4	R	20		
CCV		M0388	1.02270284		1.00		102.3	%	90-110	10/10/2004	1840
CCB			0.00065821							10/10/2004	1852
CCV		M0388	1.02292165		1.00		102.3	%	90-110	10/10/2004	1935
CCB			0.00054966							10/10/2004	1947
MB		3010	0.00075356							10/10/2004	2012
LCS		M351	0.52003723		0.500		104.0	%	80-120	10/10/2004	2020
CCV		M0388	1.02992322		1.00		103.0	%	90-110	10/10/2004	2032
CCB			0.00062596							10/10/2004	2044
MS	227123-10	M351	0.53603641		0.500	0.00068372	107.1	%	75-125	10/10/2004	2112
MSD	227123-10	M351	0.52437534	0.53603641	0.500	0.00068372	104.7	%	75-125	10/10/2004	2117
							2.2	R	20		
V		M0388	1.03043460		1.00		103.0	%	90-110	10/10/2004	2133
CB			0.00067763							10/10/2004	2145

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 227055 | Report Date.: 10/20/2004

CUSTOMER: Encycle Texas, Inc. | PROJECT: RCRA CLOSURE | ATTN: Richard Marcus

Test Method.....: SW-846 6010B | Batch.....: 99059 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: CO
Parameter.....: Cobalt (Co)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	1.03520098		1.00		103.5	%	90-110	10/10/2004	2221
CCB			0.00072668							10/10/2004	2233
MB		3010	0.00086463							10/10/2004	2247
MS	227133-1	M351	0.54005731		0.500	0.00094332	107.8	%	75-125	10/10/2004	2310
MSD	227133-1	M351	0.54464256	0.54005731	0.500	0.00094332	108.7	%	75-125	10/10/2004	2315
							0.8	R	20		
CCV		M0388	1.03771434		1.00		103.8	%	90-110	10/10/2004	2321
CCB			0.00077817							10/10/2004	2333
MB		3010	0.00070937							10/10/2004	2336
LCS		M351	0.53201907		0.500		106.4	%	80-120	10/10/2004	2343
MS	227111-1	M351	0.52836640		0.500	0.00084730	105.5	%	75-125	10/11/2004	0010
CCV		M0388	1.03591707		1.00		103.6	%	90-110	10/11/2004	0015
CCB			0.00092903							10/11/2004	0027
MSD	227111-1	M351	0.52722685	0.52836640	0.500	0.00084730	105.3	%	75-125	10/11/2004	0031
							0.2	R	20		
CCV		M0388	1.03174709		1.00		103.2	%	90-110	10/11/2004	0108
CCB			0.00073382							10/11/2004	0120
CCV		M0388	1.03597171		1.00		103.6	%	90-110	10/11/2004	0215
CCB			0.00112441							10/11/2004	0227

Test Method.....: SW-846 6010B | Batch.....: 99059 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: CU
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.00403186		2.00		100.2	%	90-110	10/10/2004	1605
ICV		M0368	1.02587198		1.00		102.6	%	90-110	10/10/2004	1614
ICV		M0380	1.01898801		1.00		101.9	%	90-110	10/10/2004	1623
ICB			0.00089595							10/10/2004	1649
ICV		M0393	0.52244366		0.500		104.5	%	90-110	10/10/2004	1652
CCV		M0388	1.04817666		1.00		104.8	%	90-110	10/10/2004	1658
CCB			0.00084577							10/10/2004	1710
MB		3010	0.00038596							10/10/2004	1753
LCS		M351	0.51405379		0.500		102.8	%	80-120	10/10/2004	1802
MS	227091-2	M351	0.56497383		0.500	-0.0078423	114.6	%	75-125	10/10/2004	1822
MSD	227091-2	M351	0.56219652	0.56497383	0.500	-0.0078423	114.0	%	75-125	10/10/2004	1827
							0.5	R	20		
CCV		M0388	1.04409790		1.00		104.4	%	90-110	10/10/2004	1840
CCB			0.00001447							10/10/2004	1852
CCV		M0388	1.05021060		1.00		105.0	%	90-110	10/10/2004	1935
CCB			-0.0001606							10/10/2004	1947
MB		3010	0.00078507							10/10/2004	2012
LCS		M351	0.52925090		0.500		105.9	%	80-120	10/10/2004	2020
CCV		M0388	1.06095708		1.00		106.1	%	90-110	10/10/2004	2032
CCB			0.00004071							10/10/2004	2044
MS	227123-10	M351	0.54901485		0.500	-0.0001618	109.8	%	75-125	10/10/2004	2112
MSD	227123-10	M351	0.53685493	0.54901485	0.500	-0.0001618	107.4	%	75-125	10/10/2004	2117
							2.2	R	20		
CCV		M0388	1.05680389		1.00		105.7	%	90-110	10/10/2004	2133
CCB			0.00066786							10/10/2004	2145
CCV		M0388	1.06689136		1.00		106.7	%	90-110	10/10/2004	2221

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 227055 | Report Date.: 10/20/2004

CUSTOMER: Encycle Texas, Inc. | PROJECT: RCRA CLOSURE | ATTN: Richard Marcus

Test Method.....: SW-846 6010B | Batch.....: 99059 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: CU
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			0.00097244							10/10/2004	2233
MB		3010	0.00112379							10/10/2004	2247
MS	227133-1	M351	0.60976056		0.500	-0.0001102	122.0	%	75-125	10/10/2004	2310
MSD	227133-1	M351	0.61967714	0.60976056	0.500	-0.0001102	124.0	%	75-125	10/10/2004	2315
							1.6	R	20		
CCV		M0388	1.07933416		1.00		107.9	%	90-110	10/10/2004	2321
CCB			0.00144739							10/10/2004	2333
MB		3010	0.00133877							10/10/2004	2336
LCS		M351	0.54778058		0.500		109.6	%	80-120	10/10/2004	2343
MS	227111-1	M351	0.57304257		0.500	0.00748484	113.1	%	75-125	10/11/2004	0010
CCV		M0388	1.07189618		1.00		107.2	%	90-110	10/11/2004	0015
CCB			0.00137809							10/11/2004	0027
MSD	227111-1	M351	0.57002564	0.57304257	0.500	0.00748484	112.5	%	75-125	10/11/2004	0031
							0.5	R	20		
CCV		M0388	1.06899924		1.00		106.9	%	90-110	10/11/2004	0108
CCB			0.00072634							10/11/2004	0120
CCV		M0388	1.07525632		1.00		107.5	%	90-110	10/11/2004	0215
B			0.00179838							10/11/2004	0227

Test Method.....: SW-846 6010B | Batch.....: 99059 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.98646197		2.00		99.3	%	90-110	10/10/2004	1605
ICV		M0368	1.02133135		1.00		102.1	%	90-110	10/10/2004	1614
ICV		M0380	0.96360863		1.00		96.4	%	90-110	10/10/2004	1623
ICB			-0.0025569							10/10/2004	1649
ICV		M0393	0.50368256		0.500		100.7	%	90-110	10/10/2004	1652
CCV		M0388	1.02139194		1.00		102.1	%	90-110	10/10/2004	1658
CCB			-0.0025509							10/10/2004	1710
MB		3010	-0.0031999							10/10/2004	1753
LCS		M351	0.49942557		0.500		99.9	%	80-120	10/10/2004	1802
MS	227091-2	M351	0.50022459		0.500	-0.0037756	100.8	%	75-125	10/10/2004	1822
MSD	227091-2	M351	0.49487215	0.50022459	0.500	-0.0037756	99.7	%	75-125	10/10/2004	1827
							1.1	R	20		
CCV		M0388	1.01575911		1.00		101.6	%	90-110	10/10/2004	1840
CCB			-0.0036750							10/10/2004	1852
CCV		M0388	1.01790109		1.00		101.8	%	90-110	10/10/2004	1935
CCB			-0.0044604							10/10/2004	1947
MB		3010	-0.0059278							10/10/2004	2012
LCS		M351	0.51629587		0.500		103.3	%	80-120	10/10/2004	2020
CCV		M0388	1.03089150		1.00		103.1	%	90-110	10/10/2004	2032
CCB			-0.0045517							10/10/2004	2044
MS	227123-10	M351	0.53015125		0.500	-0.0058693	107.2	%	75-125	10/10/2004	2112
MSD	227123-10	M351	0.52237334	0.53015125	0.500	-0.0058693	105.6	%	75-125	10/10/2004	2117
							1.5	R	20		
CCV		M0388	1.02628518		1.00		102.6	%	90-110	10/10/2004	2133
CCB			-0.0063200							10/10/2004	2145
V		M0388	1.03963393		1.00		104.0	%	90-110	10/10/2004	2221
CB			-0.0059557							10/10/2004	2233

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 227055 | Report Date.: 10/20/2004

CUSTOMER: Encycle Texas, Inc. | PROJECT: RCRA CLOSURE | ATTN: Richard Marcus

Test Method.....: SW-846 6010B | Batch.....: 99059 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		3010	-0.0048719							10/10/2004	2247
MS	227133-1	M351	0.51737228		0.500	-0.0044958	104.4	%	75-125	10/10/2004	2310
MSD	227133-1	M351	0.52547182	0.51737228	0.500	-0.0044958	106.0	%	75-125	10/10/2004	2315
							1.6	R	20		
CCV		M0388	1.03710022		1.00		103.7	%	90-110	10/10/2004	2321
CCB			-0.0056097							10/10/2004	2333
MB		3010	-0.0066452							10/10/2004	2336
LCS		M351	0.52942671		0.500		105.9	%	80-120	10/10/2004	2343
MS	227111-1	M351	0.52700516		0.500	-0.0057277	106.5	%	75-125	10/11/2004	0010
CCV		M0388	1.04717804		1.00		104.7	%	90-110	10/11/2004	0015
CCB			-0.0070545							10/11/2004	0027
MSD	227111-1	M351	0.52208404	0.52700516	0.500	-0.0057277	105.6	%	75-125	10/11/2004	0031
							0.9	R	20		
CCV		M0388	1.04710303		1.00		104.7	%	90-110	10/11/2004	0108
CCB			-0.0054707							10/11/2004	0120
CCV		M0388	1.04059056		1.00		104.1	%	90-110	10/11/2004	0215
CCB			-0.0052220							10/11/2004	0227

Test Method.....: SW-846 6010B | Batch.....: 99059 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	2.01158567		2.00		100.6	%	90-110	10/10/2004	1605
ICV		M0368	1.01450877		1.00		101.5	%	90-110	10/10/2004	1614
ICV		M0380	0.97926592		1.00		97.9	%	90-110	10/10/2004	1623
ICB			-0.0007669							10/10/2004	1649
ICV		M0393	0.50006559		0.500		100.0	%	90-110	10/10/2004	1652
CCV		M0388	1.02574034		1.00		102.6	%	90-110	10/10/2004	1658
CCB			-0.0008155							10/10/2004	1710
MB		3010	-0.0008116							10/10/2004	1753
LCS		M351	0.50630622		0.500		101.3	%	80-120	10/10/2004	1802
MS	227091-2	M351	0.52573164		0.500	0.00526641	104.1	%	75-125	10/10/2004	1822
MSD	227091-2	M351	0.52541682	0.52573164	0.500	0.00526641	104.0	%	75-125	10/10/2004	1827
							0.1	R	20		
CCV		M0388	1.02316383		1.00		102.3	%	90-110	10/10/2004	1840
CCB			-0.0006881							10/10/2004	1852
CCV		M0388	1.02231101		1.00		102.2	%	90-110	10/10/2004	1935
CCB			-0.0002754							10/10/2004	1947
MB		3010	0.00024966							10/10/2004	2012
LCS		M351	0.51825271		0.500		103.7	%	80-120	10/10/2004	2020
CCV		M0388	1.02503138		1.00		102.5	%	90-110	10/10/2004	2032
CCB			-0.0005454							10/10/2004	2044
MS	227123-10	M351	0.53247398		0.500	-0.0002587	106.5	%	75-125	10/10/2004	2112
MSD	227123-10	M351	0.51903813	0.53247398	0.500	-0.0002587	103.9	%	75-125	10/10/2004	2117
							2.6	R	20		
CCV		M0388	1.02104979		1.00		102.1	%	90-110	10/10/2004	2133
CCB			-0.0005696							10/10/2004	2145
CCV		M0388	1.02565848		1.00		102.6	%	90-110	10/10/2004	2221
CCB			-0.0005177							10/10/2004	2233
MB		3010	-0.0007098							10/10/2004	2247

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 227055 | Report Date.: 10/20/2004

CUSTOMER: Encycle Texas, Inc. | PROJECT: RCRA CLOSURE | ATTN: Richard Marcus

Test Method.....: SW-846 6010B | Batch.....: 99059 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: MN
Parameter.....: Manganese (Mn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MS	227133-1	M351	0.63474791		0.500	0.10369217	106.2	%	75-125	10/10/2004	2310
MSD	227133-1	M351	0.64002792	0.63474791	0.500	0.10369217	107.3	%	75-125	10/10/2004	2315
							0.8	R	20		
CCV		M0388	1.03150815		1.00		103.2	%	90-110	10/10/2004	2321
CCB			-0.0007026							10/10/2004	2333
MB		3010	-0.0007473							10/10/2004	2336
LCS		M351	0.52656747		0.500		105.3	%	80-120	10/10/2004	2343
MS	227111-1	M351	0.76224895		0.500	0.23950643	104.5	%	75-125	10/11/2004	0010
CCV		M0388	1.02701116		1.00		102.7	%	90-110	10/11/2004	0015
CCB			-0.0006587							10/11/2004	0027
MSD	227111-1	M351	0.75858045	0.76224895	0.500	0.23950643	103.8	%	75-125	10/11/2004	0031
							0.5	R	20		
CCV		M0388	1.02807275		1.00		102.8	%	90-110	10/11/2004	0108
CCB			-0.0005847							10/11/2004	0120
CCV		M0388	1.02856554		1.00		102.9	%	90-110	10/11/2004	0215
CCB			-0.0005910							10/11/2004	0227

Test Method.....: SW-846 6010B | Batch.....: 99059 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.98797733		2.00		99.4	%	90-110	10/10/2004	1605
ICV		M0368	1.00309943		1.00		100.3	%	90-110	10/10/2004	1614
ICV		M0380	1.00039238		1.00		100.0	%	90-110	10/10/2004	1623
ICB			-0.0008093							10/10/2004	1649
ICV		M0393	0.49210954		0.500		98.4	%	90-110	10/10/2004	1652
CCV		M0388	1.02163091		1.00		102.2	%	90-110	10/10/2004	1658
CCB			-0.0003568							10/10/2004	1710
MB		3010	-0.0007489							10/10/2004	1753
LCS		M351	0.50067128		0.500		100.1	%	80-120	10/10/2004	1802
MS	227091-2	M351	0.52568496		0.500	0.02771440	99.6	%	75-125	10/10/2004	1822
MSD	227091-2	M351	0.52438925	0.52568496	0.500	0.02771440	99.3	%	75-125	10/10/2004	1827
							0.2	R	20		
CCV		M0388	1.01560120		1.00		101.6	%	90-110	10/10/2004	1840
CCB			-0.0006557							10/10/2004	1852
CCV		M0388	1.01430656		1.00		101.4	%	90-110	10/10/2004	1935
CCB			-0.0005497							10/10/2004	1947
MB		3010	-0.0008526							10/10/2004	2012
LCS		M351	0.51658785		0.500		103.3	%	80-120	10/10/2004	2020
CCV		M0388	1.02511010		1.00		102.5	%	90-110	10/10/2004	2032
CCB			-0.0010406							10/10/2004	2044
MS	227123-10	M351	0.53121907		0.500	-0.0008359	106.4	%	75-125	10/10/2004	2112
MSD	227123-10	M351	0.52236130	0.53121907	0.500	-0.0008359	104.6	%	75-125	10/10/2004	2117
							1.7	R	20		
CCV		M0388	1.02262086		1.00		102.3	%	90-110	10/10/2004	2133
CCB			-0.0007912							10/10/2004	2145
CCV		M0388	1.02555132		1.00		102.6	%	90-110	10/10/2004	2221
CCB			-0.0002752							10/10/2004	2233
[illegible]		3010	-0.0007651							10/10/2004	2247
[illegible]	227133-1	M351	0.54860114		0.500	0.02824840	104.1	%	75-125	10/10/2004	2310

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 227055 Report Date.: 10/20/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 99059 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: NI
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MSD	227133-1	M351	0.55825379	0.54860114	0.500	0.02824840	106.0	%	75-125	10/10/2004	2315
							1.7	R	20		
CCV		M0388	1.03411420		1.00		103.4	%	90-110	10/10/2004	2321
CCB			-0.0006057							10/10/2004	2333
MB		3010	-0.0005901							10/10/2004	2336
LCS		M351	0.52624822		0.500		105.2	%	80-120	10/10/2004	2343
MS	227111-1	M351	0.52700034		0.500	0.00687745	104.0	%	75-125	10/11/2004	0010
CCV		M0388	1.03007007		1.00		103.0	%	90-110	10/11/2004	0015
CCB			-0.0003929							10/11/2004	0027
MSD	227111-1	M351	0.52715483	0.52700034	0.500	0.00687745	104.1	%	75-125	10/11/2004	0031
							0.0	R	20		
CCV		M0388	1.03231416		1.00		103.2	%	90-110	10/11/2004	0108
CCB			-0.0006463							10/11/2004	0120
CCV		M0388	1.03210908		1.00		103.2	%	90-110	10/11/2004	0215
CCB			-0.0009552							10/11/2004	0227

est Method.....: SW-846 6010B Batch.....: 99059 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.99602944		2.00		99.8	%	90-110	10/10/2004	1605
ICV		M0368	1.01319578		1.00		101.3	%	90-110	10/10/2004	1614
ICV		M0380	0.95437428		1.00		95.4	%	90-110	10/10/2004	1623
ICB			-0.0031432							10/10/2004	1649
ICV		M0393	0.48085924		0.500		96.2	%	90-110	10/10/2004	1652
CCV		M0388	1.00218681		1.00		100.2	%	90-110	10/10/2004	1658
CCB			0.00044670							10/10/2004	1710
MB		3010	-0.0009313							10/10/2004	1753
LCS		M351	0.47939344		0.500		95.9	%	80-120	10/10/2004	1802
MS	227091-2	M351	0.58113892		0.500	0.05952876	104.3	%	75-125	10/10/2004	1822
MSD	227091-2	M351	0.58233596	0.58113892	0.500	0.05952876	104.6	%	75-125	10/10/2004	1827
							0.2	R	20		
CCV		M0388	0.99315738		1.00		99.3	%	90-110	10/10/2004	1840
CCB			-0.0046539							10/10/2004	1852
CCV		M0388	0.99349721		1.00		99.3	%	90-110	10/10/2004	1935
CCB			0.00092644							10/10/2004	1947
MB		3010	0.00472592							10/10/2004	2012
LCS		M351	0.48556195		0.500		97.1	%	80-120	10/10/2004	2020
CCV		M0388	0.99751580		1.00		99.8	%	90-110	10/10/2004	2032
CCB			0.00357527							10/10/2004	2044
MS	227123-10	M351	0.49477087		0.500	0.00326121	98.3	%	75-125	10/10/2004	2112
MSD	227123-10	M351	0.49599253	0.49477087	0.500	0.00326121	98.5	%	75-125	10/10/2004	2117
							0.2	R	20		
CCV		M0388	0.97914489		1.00		97.9	%	90-110	10/10/2004	2133
CCB			-0.0003558							10/10/2004	2145
CCV		M0388	0.98640373		1.00		98.6	%	90-110	10/10/2004	2221
CCB			-0.0044759							10/10/2004	2233
MB		3010	-0.0003235							10/10/2004	2247
[illegible]	227133-1	M351	0.55532242		0.500	0.00718700	109.6	%	75-125	10/10/2004	2310
[illegible]SD	227133-1	M351	0.54765619	0.55532242	0.500	0.00718700	108.1	%	75-125	10/10/2004	2315
							1.4	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 227055 | Report Date.: 10/20/2004

CUSTOMER: Encycle Texas, Inc. | PROJECT: RCRA CLOSURE | ATTN: Richard Marcus

Test Method.....: SW-846 6010B | Batch.....: 99059 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	0.98046863		1.00		98.0	%	90-110	10/10/2004	2321
CCB			0.00431446							10/10/2004	2333
MB		3010	0.00327683							10/10/2004	2336
LCS		M351	0.49551228		0.500		99.1	%	80-120	10/10/2004	2343
MS	227111-1	M351	0.52812308		0.500	-0.0004075	105.7	%	75-125	10/11/2004	0010
CCV		M0388	0.99441638		1.00		99.4	%	90-110	10/11/2004	0015
CCB			-0.0006496							10/11/2004	0027
MSD	227111-1	M351	0.51927472	0.52812308	0.500	-0.0004075	103.9	%	75-125	10/11/2004	0031
							1.7	R	20		
CCV		M0388	0.99518506		1.00		99.5	%	90-110	10/11/2004	0108
CCB			-0.0015031							10/11/2004	0120
CCV		M0388	0.98370389		1.00		98.4	%	90-110	10/11/2004	0215
CCB			0.00075609							10/11/2004	0227

Test Method.....: SW-846 6010B | Batch.....: 99059 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	0.99135340		1.0		99.1	%	90-110	10/10/2004	1605
ICV		M0369	1.03849760		1.00		103.8	%	90-110	10/10/2004	1619
ICB			0.00137301							10/10/2004	1649
ICV		M0393	0.50947641		0.500		101.9	%	90-110	10/10/2004	1652
CCV		M0388	0.51529901		0.50		103.1	%	90-110	10/10/2004	1658
CCB			0.00126393							10/10/2004	1710
MB		3010	0.00123818							10/10/2004	1753
LCS		M351	0.25534154		0.25		102.1	%	80-120	10/10/2004	1802
MS	227091-2	M351	0.26202233		0.25	-0.0055032	107.0	%	75-125	10/10/2004	1822
MSD	227091-2	M351	0.26217940	0.26202233	0.25	-0.0055032	107.1	%	75-125	10/10/2004	1827
							0.1	R	20		
CCV		M0388	0.51246689		0.50		102.5	%	90-110	10/10/2004	1840
CCB			0.00119688							10/10/2004	1852
CCV		M0388	0.51532596		0.50		103.1	%	90-110	10/10/2004	1935
CCB			0.00222601							10/10/2004	1947
MB		3010	0.00178606							10/10/2004	2012
LCS		M351	0.26359269		0.25		105.4	%	80-120	10/10/2004	2020
CCV		M0388	0.52091785		0.50		104.2	%	90-110	10/10/2004	2032
CCB			0.00127963							10/10/2004	2044
MS	227123-10	M351	0.27251523		0.25	0.00061005	108.8	%	75-125	10/10/2004	2112
MSD	227123-10	M351	0.26290293	0.27251523	0.25	0.00061005	104.9	%	75-125	10/10/2004	2117
							3.6	R	20		
CCV		M0388	0.51816805		0.50		103.6	%	90-110	10/10/2004	2133
CCB			0.00198104							10/10/2004	2145
CCV		M0388	0.52385884		0.50		104.8	%	90-110	10/10/2004	2221
CCB			0.00134683							10/10/2004	2233
MB		3010	0.00134889							10/10/2004	2247
MS	227133-1	M351	0.27623635		0.25	-0.0040207	112.1	%	75-125	10/10/2004	2310
MSD	227133-1	M351	0.28203948	0.27623635	0.25	-0.0040207	114.4	%	75-125	10/10/2004	2315
							2.1	R	20		
CCV		M0388	0.52918565		0.50		105.8	%	90-110	10/10/2004	2321
CCB			0.00230200							10/10/2004	2333

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 227055 | Report Date.: 10/20/2004

CUSTOMER: Encycle Texas, Inc. | PROJECT: RCRA CLOSURE | ATTN: Richard Marcus

Test Method.....: SW-846 6010B | Batch.....: 99059 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		3010	0.00175525							10/10/2004	2336
LCS		M351	0.26737559		0.25		107.0	%	80-120	10/10/2004	2343
MS	227111-1	M351	0.24530978		0.25	-0.0001752	98.2	%	75-125	10/11/2004	0010
CCV		M0388	0.52623468		0.50		105.2	%	90-110	10/11/2004	0015
CCB			0.00142618							10/11/2004	0027
MSD	227111-1	M351	0.25069768	0.24530978	0.25	-0.0001752	100.3	%	75-125	10/11/2004	0031
							2.2	R	20		
CCV		M0388	0.52691044		0.50		105.4	%	90-110	10/11/2004	0108
CCB			0.00099268							10/11/2004	0120
CCV		M0388	0.52970384		0.50		105.9	%	90-110	10/11/2004	0215
CCB			-0.0000838							10/11/2004	0227

Test Method.....: SW-846 6010B | Batch.....: 99059 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: SN
Parameter.....: Tin (Sn)

	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0371	1.97493099		2.00		98.7	%	90-110	10/10/2004	1608
ICV		M0374	1.01309921		1.00		101.3	%	90-110	10/10/2004	1628
ICB			0.00196843							10/10/2004	1649
CCV		M0388	2.04761422		2.00		102.4	%	90-110	10/10/2004	1658
CCB			-0.0001925							10/10/2004	1710
MB		3010	-0.0014412							10/10/2004	1753
LCS		M351	0.99180175		1.00		99.2	%	80-120	10/10/2004	1802
MS	227091-2	M351	1.02219295		1.00	-0.0307005	105.3	%	75-125	10/10/2004	1822
MSD	227091-2	M351	1.01745851	1.02219295	1.00	-0.0307005	104.8	%	75-125	10/10/2004	1827
							0.5	R	20		
CCV		M0388	2.01254854		2.00		100.6	%	90-110	10/10/2004	1840
CCB			-0.0002671							10/10/2004	1852
CCV		M0388	2.00501297		2.00		100.3	%	90-110	10/10/2004	1935
CCB			-0.0010802							10/10/2004	1947
MB		3010	-0.0026585							10/10/2004	2012
LCS		M351	1.00746137		1.00		100.7	%	80-120	10/10/2004	2020
CCV		M0388	2.03562754		2.00		101.8	%	90-110	10/10/2004	2032
CCB			-0.0001169							10/10/2004	2044
MS	227123-10	M351	1.00685917		1.00	-0.0017994	100.9	%	75-125	10/10/2004	2112
MSD	227123-10	M351	1.01286995	1.00685917	1.00	-0.0017994	101.5	%	75-125	10/10/2004	2117
							0.6	R	20		
CCV		M0388	2.02116622		2.00		101.1	%	90-110	10/10/2004	2133
CCB			-0.0006091							10/10/2004	2145
CCV		M0388	2.03361217		2.00		101.7	%	90-110	10/10/2004	2221
CCB			-0.0002358							10/10/2004	2233
MB		3010	-0.0008508							10/10/2004	2247
MS	227133-1	M351	1.03917034		1.00	-0.0273229	106.6	%	75-125	10/10/2004	2310
MSD	227133-1	M351	1.04066725	1.03917034	1.00	-0.0273229	106.8	%	75-125	10/10/2004	2315
							0.1	R	20		
CCV		M0388	2.02838060		2.00		101.4	%	90-110	10/10/2004	2321
CCB			-0.0014587							10/10/2004	2333
MB		3010	-0.0013174							10/10/2004	2336
[illegible]		M351	0.97333273		1.00		97.3	%	80-120	10/10/2004	2343
[illegible]	227111-1	M351	0.95779813		1.00	-0.0191836	97.7	%	75-125	10/11/2004	0010

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 227055 Report Date.: 10/20/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B Batch.....: 99059 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SN
Parameter.....: Tin (Sn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0388	2.06450814		2.00		103.2	%	90-110	10/11/2004	0015
CCB			0.00067718							10/11/2004	0027
MSD	227111-1	M351	0.94804730	0.95779813	1.00	-0.0191836	96.7	%	75-125	10/11/2004	0031
							1.0	R	20		
CCV		M0388	2.03959495		2.00		102.0	%	90-110	10/11/2004	0108
CCB			-0.0002599							10/11/2004	0120
CCV		M0388	2.05222119		2.00		102.6	%	90-110	10/11/2004	0215
CCB			0.00270152							10/11/2004	0227

Test Method.....: SW-846 6010B Batch.....: 99059 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
°S		M0387	1.98811128		2.00		99.4	%	90-110	10/10/2004	1605
V		M0368	0.98788141		1.00		98.8	%	90-110	10/10/2004	1614
.CV		M0380	0.97878623		1.00		97.9	%	90-110	10/10/2004	1623
ICB			0.00052476							10/10/2004	1649
ICV		M0393	0.48139568		0.500		96.3	%	90-110	10/10/2004	1652
CCV		M0388	0.97847273		1.00		97.8	%	90-110	10/10/2004	1658
CCB			0.00082443							10/10/2004	1710
MB		3010	0.00071379							10/10/2004	1753
LCS		M351	0.48155199		0.500		96.3	%	80-120	10/10/2004	1802
MS	227091-2	M351	0.59205254		0.500	0.07409829	103.6	%	75-125	10/10/2004	1822
MSD	227091-2	M351	0.59274169	0.59205254	0.500	0.07409829	103.7	%	75-125	10/10/2004	1827
							0.1	R	20		
CCV		M0388	0.97902303		1.00		97.9	%	90-110	10/10/2004	1840
CCB			0.00111361							10/10/2004	1852
CCV		M0388	0.97401354		1.00		97.4	%	90-110	10/10/2004	1935
CCB			-0.0000274							10/10/2004	1947
MB		3010	0.00103752							10/10/2004	2012
LCS		M351	0.49150049		0.500		98.3	%	80-120	10/10/2004	2020
CCV		M0388	0.97645129		1.00		97.6	%	90-110	10/10/2004	2032
CCB			0.00071145							10/10/2004	2044
MS	227123-10	M351	0.50504402		0.500	0.00108157	100.8	%	75-125	10/10/2004	2112
MSD	227123-10	M351	0.49207378	0.50504402	0.500	0.00108157	98.2	%	75-125	10/10/2004	2117
							2.6	R	20		
CCV		M0388	0.96784852		1.00		96.8	%	90-110	10/10/2004	2133
CCB			0.00084062							10/10/2004	2145
CCV		M0388	0.97411768		1.00		97.4	%	90-110	10/10/2004	2221
CCB			-0.0001761							10/10/2004	2233
MB		3010	-0.0003485							10/10/2004	2247
MS	227133-1	M351	0.53800225		0.500	0.01682291	104.2	%	75-125	10/10/2004	2310
MSD	227133-1	M351	0.54725594	0.53800225	0.500	0.01682291	106.1	%	75-125	10/10/2004	2315
							1.7	R	20		
CCV		M0388	0.97585056		1.00		97.6	%	90-110	10/10/2004	2321
CCB			0.00082096							10/10/2004	2333
MB		3010	0.00094535							10/10/2004	2336
'CS		M351	0.49690733		0.500		99.4	%	80-120	10/10/2004	2343
:	227111-1	M351	0.52429327		0.500	0.00619363	103.6	%	75-125	10/11/2004	0010
.CV		M0388	0.97250275		1.00		97.3	%	90-110	10/11/2004	0015

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 227055 | Report Date.: 10/20/2004

CUSTOMER: Encycle Texas, Inc. | PROJECT: RCRA CLOSURE | ATTN: Richard Marcus

Test Method.....: SW-846 6010B | Batch.....: 99059 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: V
Parameter.....: Vanadium (V)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			0.00004305							10/11/2004	0027
MSD	227111-1	M351	0.52222224	0.52429327	0.500	0.00619363	103.2	%	75-125	10/11/2004	0031
							0.4	R	20		
CCV		M0388	0.97331297		1.00		97.3	%	90-110	10/11/2004	0108
CCB			0.00066992							10/11/2004	0120
CCV		M0388	0.97414303		1.00		97.4	%	90-110	10/11/2004	0215
CCB			0.00094096							10/11/2004	0227

Test Method.....: SW-846 6010B | Batch.....: 99347 | Analyst...: jem
Method Description.: Metals Analysis (ICAP) | Units.....: mg/L | Test Code.: ZN
Parameter.....: Zinc (Zn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0386	10.2850		10.0		102.8	%	90-110	10/15/2004	1303
CCV		M0368	1.0947		1.00		109.5	%	90-110	10/15/2004	1315
V		M0380	1.0532		1.00		105.3	%	90-110	10/15/2004	1332
LSC		M0394	0.0284		0.0200					10/15/2004	1342
CCV		M0389	5.2256		5.00		104.5	%	90-110	10/15/2004	1352
CCB			-0.0032							10/15/2004	1355
MB		3010	0.0044							10/15/2004	1358
LCS		M351	0.5378		0.500		107.6	%	80-120	10/15/2004	1408
PDS	227206-1	M351D	2.2570		2.00	0.0021	112.7	%	75-125	10/15/2004	1436
PSD	227206-1	M351D	2.2786	2.2570	2.00	0.0021	113.8	%	75-125	10/15/2004	1438
							1.0	R	20		
CCV		M0389	5.2218		5.00		104.4	%	90-110	10/15/2004	1441
CCB			0.0164							10/15/2004	1444
MB		3010	-0.0054							10/15/2004	1834
LCS		M351	0.5651		0.500		113.0	%	80-120	10/15/2004	1837
MB		3010	-0.0010							10/15/2004	1843
LCS		M351	0.5617		0.500		112.3	%	80-120	10/15/2004	1847
MB		3010	-0.0098							10/15/2004	1903
LCS		M351	0.5662		0.500		113.2	%	80-120	10/15/2004	1910
CCV		M0389	5.3253		5.00		106.5	%	90-110	10/15/2004	2004
CCB			-0.0041							10/15/2004	2019
MB		3010	-0.0010							10/15/2004	2027
LCS		M351	0.5420		0.500		108.4	%	80-120	10/15/2004	2031
PDS	227126-1	M351D	2.2219		2.00	-0.0083	111.5	%	75-125	10/15/2004	2120
PSD	227126-1	M351D	2.1989	2.2219	2.00	-0.0083	110.4	%	75-125	10/15/2004	2123
							1.0	R	20		
MB		3010	-0.0051							10/15/2004	2133
LCS		M351	0.5486		0.500		109.7	%	80-120	10/15/2004	2139
CCV		M0389	5.0069		5.00		100.1	%	90-110	10/15/2004	2214
CCB			0.0166							10/15/2004	2216
PDS	227137-12	M351D	2.2228		2.00	0.1089	105.7	%	75-125	10/15/2004	2322
PSD	227137-12	M351D	2.0160	2.2228	2.00	0.1089	95.4	%	75-125	10/15/2004	2325
							9.8	R	20		
CCV		M0389	4.8423		5.00		96.8	%	90-110	10/15/2004	2328
CCB			0.0031							10/15/2004	2330
CCV		M0389	4.8764		5.00		97.5	%	90-110	10/16/2004	0013
B			0.0010							10/16/2004	0018

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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Original

Subcontract Laboratory

Report

SEVERN TRENT STL

Certificate of Analysis

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ANALYTICAL REPORT

Encycle/Asarco

Lot #: I4J120117

Olga McDonald

STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

SEVERN TRENT LABORATORIES, INC.

Neal J. Salcher
Project Manager

October 15, 2004

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

October 19, 2004

STL LOT NUMBER: **I4J120117**
PO/CONTRACT: 227055

Olga McDonald
STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

Dear Olga McDonald,

This report contains the analytical results for the three samples received under chain of custody by Severn Trent Laboratories (STL) on October 9, 2004. These samples are associated with your Encycle/Asarco project.

All applicable quality control procedures met method-specified acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me.

Sincerely,

Neal Salcher
Project Manager

cc: Project File

EXECUTIVE SUMMARY - Detection Highlights

I4J120117

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
227055-1 10/06/04 14:00 001				
Cadmium	1.6	1.0	ug/L	SW846 6020
227055-2 10/06/04 002				
Cadmium	1.2	1.0	ug/L	SW846 6020
227055-3 10/06/04 15:00 003				
Cadmium	2.2	1.0	ug/L	SW846 6020

ANALYTICAL METHODS SUMMARY

I4J120117

PARAMETER	ANALYTICAL METHOD
ICP-MS (6020)	SW846 6020
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

I4J120117

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GTDCF	001	227055-1	10/06/04	14:00
GTDCH	002	227055-2	10/06/04	
GTDCJ	003	227055-3	10/06/04	15:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

I4J120117

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 6020		4287246	4287153
	WATER	SW846 6010B		4287197	4287128
002	WATER	SW846 6020		4287246	4287153
	WATER	SW846 6010B		4287197	4287128
003	WATER	SW846 6020		4287246	4287153
	WATER	SW846 6010B		4287197	4287128

STL CORPUS CHRISTI

Client Sample ID: 227055-1

TOTAL Metals

Lot-Sample #...: I4J120117-001 **Matrix.....:** WATER
Date Sampled...: 10/06/04 14:00 **Date Received..:** 10/09/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4287197						
Bismuth	ND	0.20	mg/L	SW846 6010B	10/13-10/14/04	GTDCF1AA
		Dilution Factor: 1		Analysis Time..: 11:07	MS Run #.....: 4287128	
Prep Batch #...: 4287246						
Cadmium	**1.6**	**1.0**	**ug/L**	**SW846 6020**	**10/13-10/14/04**	**GTDCF1AC**
		Dilution Factor: 1		Analysis Time..: 10:55	MS Run #.....: 4287153	
Antimony	ND	1.0	ug/L	SW846 6020	10/13-10/14/04	GTDCF1AD
		Dilution Factor: 1		Analysis Time..: 10:55	MS Run #.....: 4287153	
Thallium	ND	1.0	ug/L	SW846 6020	10/13-10/14/04	GTDCF1AE
		Dilution Factor: 1		Analysis Time..: 10:55	MS Run #.....: 4287153	

STL CORPUS CHRISTI

Client Sample ID: 227055-2

TOTAL Metals

Lot-Sample #...: I4J120117-002 **Matrix.....:** WATER
Date Sampled...: 10/06/04 **Date Received..:** 10/09/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4287197						
Bismuth	ND	0.20	mg/L	SW846 6010B	10/13-10/14/04	GTDCH1AA
		Dilution Factor: 1		Analysis Time..: 11:27	MS Run #.....: 4287128	
Prep Batch #...: 4287246						
Cadmium	**1.2**	**1.0**	**ug/L**	**SW846 6020**	**10/13-10/14/04**	**GTDCH1AC**
		Dilution Factor: 1		Analysis Time..: 11:27	MS Run #.....: 4287153	
Antimony	ND	1.0	ug/L	SW846 6020	10/13-10/14/04	GTDCH1AD
		Dilution Factor: 1		Analysis Time..: 11:27	MS Run #.....: 4287153	
Thallium	ND	1.0	ug/L	SW846 6020	10/13-10/14/04	GTDCH1AE
		Dilution Factor: 1		Analysis Time..: 11:27	MS Run #.....: 4287153	

STL CORPUS CHRISTI

Client Sample ID: 227055-3

TOTAL Metals

Lot-Sample #...: I4J120117-003 **Matrix.....:** WATER
Date Sampled...: 10/06/04 15:00 **Date Received..:** 10/09/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4287197						
Bismuth	ND	0.20	mg/L	SW846 6010B	10/13-10/14/04	GTDCJ1AA
		Dilution Factor: 1		Analysis Time..: 11:32	MS Run #.....: 4287128	
Prep Batch #...: 4287246						
Cadmium	**2.2**	**1.0**	**ug/L**	**SW846 6020**	**10/13-10/14/04**	**GTDCJ1AC**
		Dilution Factor: 1		Analysis Time..: 11:33	MS Run #.....: 4287153	
Antimony	ND	1.0	ug/L	SW846 6020	10/13-10/14/04	GTDCJ1AD
		Dilution Factor: 1		Analysis Time..: 11:33	MS Run #.....: 4287153	
Thallium	ND	1.0	ug/L	SW846 6020	10/13-10/14/04	GTDCJ1AE
		Dilution Factor: 1		Analysis Time..: 11:33	MS Run #.....: 4287153	

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: I4J120117 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I4J130000-197 **Prep Batch #...:** 4287197						
Bismuth	ND	0.20	mg/L	SW846 6010B	10/13-10/14/04	GTF6H1AD
		Dilution Factor: 1				
		Analysis Time..: 10:20				
MB Lot-Sample #: I4J130000-246 **Prep Batch #...:** 4287246						
Antimony	ND	1.0	ug/L	SW846 6020	10/13-10/14/04	GTGFF1AC
		Dilution Factor: 1				
		Analysis Time..: 10:43				
Cadmium	ND	1.0	ug/L	SW846 6020	10/13-10/14/04	GTGFF1AA
		Dilution Factor: 1				
		Analysis Time..: 10:43				
Thallium	ND	1.0	ug/L	SW846 6020	10/13-10/14/04	GTGFF1AD
		Dilution Factor: 1				
		Analysis Time..: 10:43				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4J120117 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4J130000-197 **Prep Batch #...:** 4287197					
Bismuth	98	(80 - 120)	SW846 6010B	10/13-10/14/04	GTF6H1AE
		Dilution Factor: 1	Analysis Time..: 10:25		
LCS Lot-Sample#: I4J130000-246 **Prep Batch #...:** 4287246					
Cadmium	99	(80 - 120)	SW846 6020	10/13-10/14/04	GTGFF1AE
		Dilution Factor: 1	Analysis Time..: 10:49		
Antimony	96	(80 - 120)	SW846 6020	10/13-10/14/04	GTGFF1AF
		Dilution Factor: 1	Analysis Time..: 10:49		
Thallium	106	(80 - 120)	SW846 6020	10/13-10/14/04	GTGFF1AG
		Dilution Factor: 1	Analysis Time..: 10:49		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4J120117 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I4J130000-197 **Prep Batch #...:** 4287197							
Bismuth	0.500	0.490	mg/L	98	SW846 6010B	10/13-10/14/04	GTF6H1AE
			Dilution Factor: 1		Analysis Time..: 10:25		
LCS Lot-Sample#: I4J130000-246 **Prep Batch #...:** 4287246							
Cadmium	50.0	49.4	ug/L	99	SW846 6020	10/13-10/14/04	GTGFF1AE
			Dilution Factor: 1		Analysis Time..: 10:49		
Antimony	50.0	48.1	ug/L	96	SW846 6020	10/13-10/14/04	GTGFF1AF
			Dilution Factor: 1		Analysis Time..: 10:49		
Thallium	50.0	53.0	ug/L	106	SW846 6020	10/13-10/14/04	GTGFF1AG
			Dilution Factor: 1		Analysis Time..: 10:49		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4J120117 **Matrix.....:** WATER
Date Sampled...: 10/05/04 12:04 **Date Received..:** 10/06/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4J060298-001 **Prep Batch #...:** 4287197							
Bismuth	104	(75 - 125)			SW846 6010B	10/13-10/14/04	GR0591AQ
	101	(75 - 125)	2.0	(0-20)	SW846 6010B	10/13-10/14/04	GR0591AR

Dilution Factor: 1
Analysis Time..: 11:52
MS Run #.....: 4287128

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4J120117 **Matrix.....:** WATER
Date Sampled...: 10/05/04 12:04 **Date Received..:** 10/06/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4J060298-001 **Prep Batch #...:** 4287197									
Bismuth									
	ND	0.500	0.518	mg/L	104		SW846 6010B	10/13-10/14/04	GR0591AQ
	ND	0.500	0.507	mg/L	101	2.0	SW846 6010B	10/13-10/14/04	GR0591AR

Dilution Factor: 1
Analysis Time..: 11:52
MS Run #.....: 4287128

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I4J120117 **Matrix.....:** WATER
Date Sampled...: 10/06/04 14:00 **Date Received..:** 10/09/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4J120117-001 **Prep Batch #...:** 4287246							
Antimony	99	(80 - 120)			SW846 6020	10/13-10/14/04	GTDCF1AH
	98	(80 - 120)	1.1	(0-20)	SW846 6020	10/13-10/14/04	GTDCF1AJ
		Dilution Factor: 1					
		Analysis Time..: 11:14					
		MS Run #.....: 4287153					
Cadmium	101	(80 - 120)			SW846 6020	10/13-10/14/04	GTDCF1AF
	101	(80 - 120)	0.72	(0-20)	SW846 6020	10/13-10/14/04	GTDCF1AG
		Dilution Factor: 1					
		Analysis Time..: 11:14					
		MS Run #.....: 4287153					
Thallium	109	(80 - 120)			SW846 6020	10/13-10/14/04	GTDCF1AK
	108	(80 - 120)	1.2	(0-20)	SW846 6020	10/13-10/14/04	GTDCF1AL
		Dilution Factor: 1					
		Analysis Time..: 11:14					
		MS Run #.....: 4287153					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I4J120117 **Matrix.....:** WATER
Date Sampled...: 10/06/04 14:00 **Date Received..:** 10/09/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I4J120117-001 **Prep Batch #...:** 4287246									
Antimony									
	ND	50.0	49.8	ug/L	99		SW846 6020	10/13-10/14/04	GTDCF1AH
	ND	50.0	49.3	ug/L	98	1.1	SW846 6020	10/13-10/14/04	GTDCF1AJ
			Dilution Factor: 1						
			Analysis Time..: 11:14						
			MS Run #.....: 4287153						
Cadmium									
	1.6	50.0	52.3	ug/L	101		SW846 6020	10/13-10/14/04	GTDCF1AF
	1.6	50.0	51.9	ug/L	101	0.72	SW846 6020	10/13-10/14/04	GTDCF1AG
			Dilution Factor: 1						
			Analysis Time..: 11:14						
			MS Run #.....: 4287153						
Thallium									
	ND	50.0	54.7	ug/L	109		SW846 6020	10/13-10/14/04	GTDCF1AK
	ND	50.0	54.1	ug/L	108	1.2	SW846 6020	10/13-10/14/04	GTDCF1AL
			Dilution Factor: 1						
			Analysis Time..: 11:14						
			MS Run #.....: 4287153						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Report Attachment

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.4, COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.
EPA 340.2, Fluoride: Preliminary Bellack distillation not performed.
EPA 624: The laboratory uses a different desorb time and purge volume than stated in the method.
EPA 8151A: Laboratory utilizes alternate extraction solvent.
Iowa OA1: Benzene, toluene, ethylbenzene and xylenes (BTEX) are not analyzed along with the Gasoline Range Organics if client does not require BTEX.
EPA TO-12: Samples not analyzed in duplicate.
EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

TRRP Reporting Requirements

If this package contains reports requiring TRRP (Texas Risk Reduction Program) reporting criteria, the following information applies.

The REPORTING LIMIT is equivalent to the TRRP acronym MQL (method quantitation limit).
The MDL is equivalent to the TRRP acronym SQL (sample quantitation limit).

SEVERN TRENT **STL**

CHAIN–OF–CUSTODY ADDENDUM

Lot No: I4J120117

RECEIVED BY: LT

COC NUMBER:

DATE/TIME RECEIVED: 10-9-04/0845

QUOTE/PROFILE: 56827

UNPACKED DATE/TIME: 10-9-04/1110

CLIENT/PROJECT: STL Corpus Christi

SAMPLES LOGGED IN: LT

LOG-IN REVIEWED: By

Number of Shipping Containers Received with Chain of Custody 1

VOC AIR / FILTER SAMPLES ☐ YES **SEE SECTIONS 1.0, 2.0, & 6.0**

1.0 CONTAINERS EXAMINED UPON RECEIPT: LT

Container Sealed: ☑ YES ☐ NO

Custody Seal Signed/Dated: ☑ YES ☐ NO

Custody Seal Present: ☑ YES ☐ NO

Containers checked for radioactivity: ☐ YES ☐ NO ☑ N/A

If seal not intact or Geiger counter reading >0.5 mR/hr, list air bill number of that container(s): _____

2.0 VOC CANISTERS EXAMINED UPON RECEIPT: _____

Canister Valves Closed: ☐ YES ☐ NO

Samples Received Match Chain: ☐ YES ☐ NO

Canister Valves Capped: ☐ YES ☐ NO

Other Equipment Received: ☐ YES ☐ NO

Valve Cap Tightened Properly: ☐ YES ☐ NO

See Additional Comments (Section 5.0 and / or 7.0) ☐ YES ☐ NO

Packing Material Used: (circle)

None / Absorbent / Paper / Bubble Wrap

Chain-of-Custody form properly maintained: ☐ YES ☐ NO

Can Size: ☐ 6L ☐ 15L Other _____

3.0 SAMPLE TEMPERATURE UPON RECEIPT BY: LT **IR THERMOMETER #:** P-5

Temperature of the container(s):

Circle selection: TB = Temp. Blank and/or SC = Sample Container [*acceptable tolerance 4°C ± 2°; (NC, WI: 1-4.4°C)*]

TB	3°C	TB	TB	TB	TB	TB	TB	TB	TB	TB
SC	2°C	SC	SC	SC	SC	SC	SC	SC	SC	SC

If temperature is outside acceptable tolerance, Project Manager was notified (_____PM). Date: _____ Time: _____

Samples received do not require cooling _____

OK to analyze samples: ☐ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED: ☐ NA ☑ YES **VERIFIED BY:** LT

Base samples are>pH 12: ☐ YES ☐ NO

Acid preserved are<pH 2: ☑ YES ☐ NO

Cyanide samples checked for sulfides: ☐ YES

Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Samples checked for chlorine per specification (N.C.) ☐ YES

Free chlorine present: ☐ YES ☐ NO

If sample preservation is outside acceptable tolerance, Project Manager was notified (_____PM)

Date: _____ Time: _____ ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOA's CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

4.0 CONDITION OF BOTTLES/CONTAINERS VERIFIED BY: LT

Samples received match COC: ☑ YES ☐ NO Bottles received intact: ☑ YES ☐ NO
See additional discrepancies/comments section: ☐ YES ☑ NO Samples received from USDA restricted area: ☐ YES ☑ NO
Chain-of-Custody form properly maintained: ☑ YES ☐ NO VOA trip blanks included: ☐ YES ☐ NO ☑ N/A

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments

6.0 SHIPPING DOCUMENTATION:
Air/freight bill is available and attached to COC: ☑ YES ☐ NO Air bill #: _____
Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

CORRECTIVE ACTION:
Client's Name: _____ Informed verbally on: _____ By: _____
Client's Name: _____ Informed verbally on: _____ By: _____
Sample(s) processed "as is" comments: _____

Samples(s) on hold until: _____ If released, notify: _____

REVIEW:
Project Management: [signature] Date: 10/19/04

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SEVERN TRENT **STL**

STL Austin

No. 22962

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	**BILLING INFORMATION**
ADDRESS:	BILL TO:
	ADDRESS: same
PHONE: 361/289-2673	PHONE:
FAX: 361/289-2471	FAX: PO NO:

LAB JOB NO.

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: GOLD (Pb)	ANALYSIS/METHOD REQUEST: GOLD (Sb, Cd, Tl)	REMARKS/PRECAUTIONS
	227055-1	10/6/04	14:00	Water	PSDD	HNO3	1	X	X	Attn:
	227055-2	↓	—	↓	↓	↓	1	X	X	Neal Salcher
	227055-3	↓	15:00	↓	↓	↓	1	X	X	
										Encycle/ASARCO
										Pricing

SAMPLER: SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE ☒ OTHER 7-day

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	10/6/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY:	TIME 1600	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	10-9-04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY:	TIME 1015	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

End of

Subcontract Laboratory

Report(s)

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 10/20/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:

The test results in this report meet all NELAP requirements for parameters for which accreditation is held. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND = Not detected at a value greater than the reporting limit
TNTC = Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB Method Blank
ICB Initial Calibration Blank
CCB Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS Method (Matrix) Spike
MSD Method (Matrix) Spike Duplicate
PDS Post Digestion/Distillation Spike
SB Spiked Blank
SBD Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS Laboratory Control Standard
RS Reference Standard
ICV Initial Calibration Verification Standard

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 10/20/2004

CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page ___ of 1

Project Number/Name: Encycle RCRA Closure

Project Location: Corpus Christi, TX

Laboratory: STL, Corpus Christi

Project Manager: Ken Brandner

Sampler(s)/Affiliation: Ken Brandner/ARCADIS

3.2°C

Custody seal 227055

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Total Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Hg, Ni, Se, Ag, Tl, Sn, V, Zn (2 lpt. poly w/HNO3)		Total cyanide (1 qt poly w/NaOH)				Remarks	Total
Rec. Bldg W. Sump	L	10/6/04, 1400		2		1				Need low	3
Rec Bldg E. Sump		10/6/04		2		1				detection limits	3
Rec Bldg Center		10/6/04, 1500		2		1					3

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 9

Relinquished by: [signature]	Organization: ARCADIS	Date 10/6/04	Time 1621	Seal Intact? Yes No N/A
Received by: [signature]	Organization: STL-CC	Date 10/6/04	Time 1621	
Relinquished by:	Organization:	Date / /	Time	Seal Intact? Yes No N/A
Received by:	Organization:	Date / /	Time	

Special Instructions/Remarks: Samples delivered in cooler with ice. Results to Ken Brandner and Rich Marcus. Normal turnaround. Need low detection limits. Invoice to Rich Marcus for RCRA Closure.

Delivery Method: ☒ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

SEVERN TRENT STL

ANALYTICAL REPORT

JOB NUMBER: 227098

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 11/08/2004

Olga Verónica McDonald
Signature

Name: Olga V. McDonald

Title: Project Manager

E-Mail: omcdonald@stl-inc.com

11/8/04
Date

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 25

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 11/08/2004

Job Number.: 227098
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000353
Customer Project ID....: RCRA CLOSURE
Project Description....: Encycle

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
227098-1	REC BLDG W SUMP	Water	10/07/2004	12:52	10/07/2004	13:12
227098-2	REC BLDG E SUMP	Water	10/07/2004	12:45	10/07/2004	13:12
227098-3	REC BLDG CENTER	Water	10/07/2004	13:00	10/07/2004	13:12

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Original

Subcontract Laboratory

Report

SEVERN TRENT STL

Certificate of Analysis

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ANALYTICAL REPORT

PROJECT NO. 227098

Encycle-227098

Lot #: I4J210228

Olga McDonald

STL Corpus Christi
1733 North Padre Island Drive
Corpus Christi, TX 78408

SEVERN TRENT LABORATORIES, INC.

Dane J. Wacasey
Project Manager

October 28, 2004

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories

Case Narrative

STL LOT NUMBER: **I4J210228**

This report contains the analytical results for the three samples received under chain of custody by Severn Trent Laboratories (STL) on October 21, 2004. These samples are associated with your Encycle-227098 project.

All samples were received in good condition and within temperature requirements.

All applicable quality control procedures met method-specified acceptance criteria except where noted in the case narrative or flagged on the result pages.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me (512) 310-5233.

EXECUTIVE SUMMARY - Detection Highlights

I4J210228

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
NO DETECTABLE PARAMETERS				

ANALYTICAL METHODS SUMMARY

I4J210228

PARAMETER	ANALYTICAL METHOD
Total Cyanide	MCAWW 335.3

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SAMPLE SUMMARY

I4J210228

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GT59K	001	227098-1	10/07/04	12:52
GT591	002	227098-2	10/07/04	12:45
GT594	003	227098-3	10/07/04	13:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

I4J210228

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	MCAWW 335.3		4296221	
002	WATER	MCAWW 335.3		4296221	
003	WATER	MCAWW 335.3		4296221	

STL CORPUS CHRISTI

Client Sample ID: 227098-1

General Chemistry

Lot-Sample #...: I4J210228-001 **Work Order #...:** GT59K **Matrix.....:** WATER
Date Sampled...: 10/07/04 12:52 **Date Received..:** 10/21/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide	ND	0.010	mg/L	MCAWW 335.3	10/21/04	4296221

Dilution Factor: 1 Analysis Time..: 14:00 MS Run #.....:

STL CORPUS CHRISTI

Client Sample ID: 227098-2

General Chemistry

Lot-Sample #...: I4J210228-002 **Work Order #...:** GT591 **Matrix.....:** WATER
Date Sampled...: 10/07/04 12:45 **Date Received..:** 10/21/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide	ND	0.010	mg/L	MCAWW 335.3	10/21/04	4296221

Dilution Factor: 1 Analysis Time..: 14:00 MS Run #.....:

STL CORPUS CHRISTI

Client Sample ID: 227098-3

General Chemistry

Lot-Sample #...: I4J210228-003 **Work Order #...:** GT594 **Matrix.....:** WATER
Date Sampled...: 10/07/04 13:00 **Date Received..:** 10/21/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide	ND	0.010	mg/L	MCAWW 335.3	10/21/04	4296221

Dilution Factor: 1 Analysis Time..: 14:00 MS Run #.....:

METHOD BLANK REPORT

General Chemistry

Client Lot #...: I4J210228 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide		Work Order #: GT8531AA		MB Lot-Sample #:	I4J220000-221	
	ND	0.010	mg/L	MCAWW 335.3	10/21/04	4296221
		Dilution Factor: 1				
		Analysis Time..: 14:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: I4J210228 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide		WO#:GT8531AC-LCS/GT8531AD-LCSD				LCS Lot-Sample#: I4J220000-221	
	94	(90 - 110)			MCAWW 335.3	10/21/04	4296221
	95	(90 - 110)	0.26	(0-20)	MCAWW 335.3	10/21/04	4296221

Dilution Factor: 1 Analysis Time..: 14:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: I4J210228 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide		WO#:GT8531AC-LCS/GT8531AD-LCSD				LCS Lot-Sample#: I4J220000-221		
	0.243	0.229	mg/L	94		MCAWW 335.3	10/21/04	4296221
	0.243	0.230	mg/L	95	0.26	MCAWW 335.3	10/21/04	4296221

Dilution Factor: 1 Analysis Time..: 14:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Report Attachment

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.4, COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.
EPA 340.2, Fluoride: Preliminary Bellack distillation not performed.
EPA 624: The laboratory uses a different desorb time and purge volume than stated in the method.
EPA 8151A: Laboratory utilizes alternate extraction solvent.
Iowa OA1: Benzene, toluene, ethylbenzene and xylenes (BTEX) are not analyzed along with the Gasoline Range Organics if client does not require BTEX.
EPA TO-12: Samples not analyzed in duplicate.
EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

TRRP Reporting Requirements

If this package contains reports requiring TRRP (Texas Risk Reduction Program) reporting criteria, the following information applies.

The REPORTING LIMIT is equivalent to the TRRP acronym MQL (method quantitation limit).
The MDL is equivalent to the TRRP acronym SQL (sample quantitation limit).

SEVERN TRENT STL

CHAIN-OF-CUSTODY ADDENDUM

Lot No: I4J210228

RECEIVED BY: DW

COC NUMBER:

DATE/TIME RECEIVED: 10/21/04 0805

QUOTE/PROFILE: 6158

UNPACKED DATE/TIME: 10/21/04 0840

CLIENT/PROJECT: STL - Corpus

SAMPLES LOGGED IN: DW

LOG-IN REVIEWED: CC

Number of Shipping Containers Received with Chain of Custody: 1

VOC AIR / FILTER SAMPLES ☐ YES **SEE SECTIONS 1.0, 2.0, & 6.0**

1.0 CONTAINERS EXAMINED UPON RECEIPT: DW

Container Sealed: ☑ YES ☐ NO

Custody Seal Signed/Dated: ☑ YES ☐ NO

Custody Seal Present: 10/21/04 ☑ YES ☑ NO

Containers checked for radioactivity: ☐ YES ☐ NO ☑ N/A

If seal not intact or Geiger counter reading >0.5 mR/hr, list air bill number of that container(s):

2.0 VOC CANISTERS EXAMINED UPON RECEIPT:

Canister Valves Closed: ☐ YES ☐ NO

Canister Valves Capped: ☐ YES ☐ NO

Valve Cap Tightened Properly: ☐ YES ☐ NO

Packing Material Used: (circle)

None / Absorbent / Paper / Bubble Wrap

Samples Received Match Chain: ☐ YES ☐ NO

Other Equipment Received: ☐ YES ☐ NO

See Additional Comments (Section 5.0 and / or 7.0) ☐ YES ☐ NO

Chain-of-Custody form properly maintained: ☐ YES ☐ NO

Can Size: ☐ 6L ☐ 15L Other

3.0 SAMPLE TEMPERATURE UPON RECEIPT BY: DW **IR THERMOMETER #:** P-5

Temperature of the container(s):

Circle selection: TB = Temp. Blank and/or SC = Sample Container *[acceptable tolerance 4°C ± 2°; (NC, WI: 1-4.4°C)]*

TB 2°C	TB	TB	TB	TB	TB	TB	TB	TB	TB
SC 2°C	SC	SC	SC	SC	SC	SC	SC	SC	SC

If temperature is outside acceptable tolerance, Project Manager was notified (_____PM). Date: _____ Time: _____

Samples received do not require cooling _____ OK to analyze samples: ☑ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED: ☐ NA ☑ YES **VERIFIED BY:** DW

Base samples are>pH 12: ☑ YES ☐ NO

Acid preserved are<pH 2: ☐ YES ☐ NO

Cyanide samples checked for sulfides: ☑ YES

Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Samples checked for chlorine per specification (N.C.) ☐ YES

Free chlorine present: ☐ YES ☐ NO

If sample preservation is outside acceptable tolerance, Project Manager was notified (_____PM)

Date: _____ Time: _____ ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOA's CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

4.0 CONDITION OF BOTTLES/CONTAINERS

VERIFIED BY: DW

Samples received match COC: ☑ YES ☐ NO

See additional discrepancies/comments section: ☑ YES ☐ NO

Chain-of-Custody form properly maintained: ☑ YES ☐ NO

Bottles received intact: ☑ YES ☐ NO

Samples received from USDA restricted area: ☐ YES ☑ NO

VOA trip blanks included: ☐ YES ☐ NO ☑ N/A

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments

6.0 SHIPPING DOCUMENTATION:

Air/freight bill is available and attached to COC: ☑ YES ☐ NO Air bill #: _____

Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

Bottles received per PD.

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By _____

Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Project Management: _____ Date: _____

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SEVERN TRENT **STL**

STL Austin I4J210228

No. 22900

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: STL Corpus Christi	PROJECT NAME/NUMBER:
SEND REPORT TO: Olga McDonald	**BILLING INFORMATION**
ADDRESS:	BILL TO:
	ADDRESS: Same
PHONE: 361/289-2673	PHONE:
FAX: 361/289-2471	FAX: PO NO:

LAB JOB NO.

2i 10/21/04

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: Cyanide + TOC/9012	REMARKS/PRECAUTIONS
	227098-1	10/7/04	12:52	Water		NaOH			Attn: Dane Wacasey
	227098-2		12:41						
	227098-3		13:00						

SAMPLER: SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE ☐ OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	10/20/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Vivian McDermott STL	TIME 1700	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	**DATE**	**2. RECEIVED BY:**	**DATE**	**3. RECEIVED BY:**	**DATE**
SIGNATURE:	10/21/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: DANE WACASEY / STL	TIME 0805	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

STL8222-560 (12/02)

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

End of

Subcontract Laboratory

Report(s)

SEVERN TRENT STL

LABORATORY CHRONICLE

Job Number: 227098 Date: 11/08/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: RCRA CLOSURE ATTN: Richard Marcus

Lab ID: 227098-1 Client ID: REC BLDG W SUMP Date Recvd: 10/07/2004 Sample Date: 10/07/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
	Subcontracted Analysis	1	100063			

Lab ID: 227098-2 Client ID: REC BLDG E SUMP Date Recvd: 10/07/2004 Sample Date: 10/07/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
	Subcontracted Analysis	1	100063			

Lab ID: 227098-3 Client ID: REC BLDG CENTER Date Recvd: 10/07/2004 Sample Date: 10/07/2004

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
	Subcontracted Analysis	1	100063			

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 11/08/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:

The test results in this report meet all NELAP requirements for parameters for which accreditation is held. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

According to 40CFR Part 136.3, pH, total residual chlorine, dissolved oxygen, sulfite, and temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH, Client Provided), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND = Not detected at a value greater than the reporting limit
TNTC = Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB Method Blank
ICB Initial Calibration Blank
CCB Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS Method (Matrix) Spike
MSD Method (Matrix) Spike Duplicate
PDS Post Digestion/Distillation Spike
SB Spiked Blank
SBD Spiked Blank Duplicate

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SEVERN TRENT STL

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 11/08/2004

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard
CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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ARCADIS

Laboratory Task Order No./P.O. No. 227098

CHAIN-OF-CUSTODY RECORD

Project Number/Name: Encycle RCRA Closure

Project Location: Corpus Christi, TX

Laboratory: STL, Corpus Christi

Project Manager: Ken Brandner

Sampler(s)/Affiliation: Ken Brandner / ARCADIS

ice just sampled

227098

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Total Cyanide (1 qt. poly w/NaOH)						Remarks	Total
Rec Bldg W. Sump	L	10/7/04 12:52								Bottles contain proper (NaOH) preservative	1
Rec Bldg E. Sump	↓	↓ 12:45									1
Rec Bldg Center	↓	↓ 13:00									1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers: 3

Relinquished by: Ken Brandner	Organization: ARCADIS	Date 10/7/04	Time 13:12	Seal Intact?
Received by: Olga Veronica McArnold	Organization: STL	Date 10/7/04	Time 13:12	Yes No N/A
Relinquished by:	Organization:	Date / /	Time	Seal Intact?
Received by:	Organization:	Date / /	Time	Yes No N/A

Special Instructions/Remarks: Samples delivered in cooler with ice. Results to Ken Brandner & Rich Marcus

Delivery Method: ☒ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Encycle/Texas, Inc.
Attn: Richard Marcus
Address: P.O. Box 4767
Corpus Christi, TX 78469

Phone: 361 289-6526 **FAX:** 361 289-7415

Report#/Lab ID#: 278750 **Report Date:** 10/19/04
Project ID: Encycle RCRA Closure
Sample Name: Rec. Bldg. Center
Sample Matrix: water
Date Received: 10/14/2004 **Time:** 14:56
Date Sampled: 10/14/2004 **Time:** 13:50

REPORT OF ANALYSIS — **QUALITY ASSURANCE DATA** [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Metals Dig.-HNO3	---	---	---	---	10/15/04	3015	---	---	---	---	---
Lead/ICP	<0.01	mg/L	0.01	<0.01	10/18/04	6010 & 200.7	---	1.78	97.14	99.12	95.64

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ARCADIS

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name: Encycle RCRA Closure

Project Location: Corpus Christi, TX

Laboratory: Analysys

Project Manager: Ken Brandner

Sampler(s)/Affiliation: Ken Brandner / ARCADIS

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Total Pb Cl pt. poly w/ HNO_3						Remarks	Total
Rec. Bldg Center	L	10/14/04 13:50	278750	1							1
										Total No. of Bottles/Containers	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by: Ken Brandner	Organization: ARCADIS	Date 10/14/04	Time 14:56	Seal Intact?	
Received by: M. Wm	Organization: ASI	Date 10/14/04	Time 14:56	Yes No N/A	
Relinquished by:	Organization:	Date / /	Time	Seal Intact?	
Received by:	Organization: ASI	Date 10/15/04	Time 0850	Yes No N/A	

Special Instructions/Remarks: Need 3-day turnaround time. Hold for possible additional metals analysis.
Results to Ken Brandner & Rich Marcus
Invoice to Rich Marcus for Encycle RCRA Closure. T: 2.0 C

Delivery Method: ☒ In Person ☐ Common Carrier _____ (SPECIFY) ☐ Lab Courier ☐ Other _____ (SPECIFY)

AG 05-12/01

APPENDIX F

ARCADIS

Appendix F

Laboratory Report – Facility No. 3
Permitted Floor Concrete Sample

SEVERN TRENT STL

RECEIVED
SEP 24 2004
BY:

ANALYTICAL REPORT

JOB NUMBER: 226500

Prepared For:

ARCADIS / G&M
711 North Carancahua, Suite 1700
Corpus Christi, TX 78475-1801

Attention: Ken Brandner

Date: 09/21/2004

Signature

Name: Chip Meador

Title: Laboratory Director

E-Mail: cmeador@stl-inc.com

9/22/04
Date

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 8

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 09/21/2004

Job Number.: 226500
Customer...: Encycle Texas, Inc.
Attn.....: Richard Marcus

Project Number.....: 98000084
Customer Project ID....: RCRA CLOSURE
Project Description....: Project - OVM

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
226500-1	FAL 3 CONCRETE CORE	Soil	08/31/2004	15:40	08/31/2004	16:15

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 226500

Date: 09/21/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: RCRA CLOSURE ATTN: Richard Marcus

Customer Sample ID: FAL 3 CONCRETE CORE
Date Sampled.....: 08/31/2004
Time Sampled.....: 15:40
Sample Matrix.....: Soil

Laboratory Sample ID: 226500-1
Date Received.....: 08/31/2004
Time Received.....: 16:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 6010B	Lead (Pb), Solid	<1.5	1.5	mg/Kg	09/01/04	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges, Total	Complete			09/01/04	cdt

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 226500

Report Date.: 09/21/2004

CUSTOMER: Encycle Texas, Inc. PROJECT: RCRA CLOSURE ATTN: Richard Marcus

Test Method.....: SW-846 6010B
Method Description.: Metals Analysis (ICAP)
Parameter.....: Lead (Pb)

Batch.....: 97739
Units.....: mg/L

Analyst...: jem
Test Code.: PB

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0387	1.99347355		2.00		99.7	%	90-110	09/01/2004	1817
ICV		M0368	1.00539054		1.00		100.5	%	90-110	09/01/2004	1826
ICV		M0380	1.01901171		1.00		101.9	%	90-110	09/01/2004	1834
ICB			0.00128355							09/01/2004	1848
ICB			-0.0015877							09/01/2004	1901
ICV		M0393	0.50157799		0.500		100.3	%	90-110	09/01/2004	1904
CCV		M0388	0.98859822		1.00		98.9	%	90-110	09/01/2004	1909
CCB			-0.0002704							09/01/2004	1921
MB		3010	0.00212312							09/01/2004	1925
LCS		M351	0.49631357		0.500		99.3	%	80-120	09/01/2004	1932
MS	226469-4	M351	0.48713432		0.500	0.01368737	94.7	%	75-125	09/01/2004	1948
MDS	226469-4	M351	0.48322670	0.48713432	0.500	0.01368737				09/01/2004	1953
CCV		M0388	0.98049036		1.00		98.0	%	90-110	09/01/2004	2005
CCB			0.00002540							09/01/2004	2017
MB		3010	0.00057279							09/01/2004	2101
CCV		M0388	0.97958514		1.00		98.0	%	90-110	09/01/2004	2108
CCB			-0.0013967							09/01/2004	2120
LCS		M351	0.50674411		0.500		101.3	%	80-120	09/01/2004	2123
MS	226505-2	M351	0.49815911		0.500	-0.0014440	99.9	%	75-125	09/01/2004	2149
MSD	226505-2	M351	0.49727635	0.49815911	0.500	-0.0014440	99.7	%	75-125	09/01/2004	2154
							0.2	R	20		
MB		3050	-0.0018893							09/01/2004	2202
CCV		M0388	0.99038060		1.00		99.0	%	90-110	09/01/2004	2209
CCB			0.00138546							09/01/2004	2215
LCS		M383D	1.87765658		2.04		92.0	%	71-129	09/01/2004	2225
LCS		M351	0.48076688		0.500		96.2	%	71-129	09/01/2004	2230
MS	226497-5	M351	0.52330336		0.500	0.04836864	95.0	%	75-125	09/01/2004	2246
MSD	226497-5	M351	0.52103066	0.52330336	0.500	0.04836864	94.5	%	75-125	09/01/2004	2252
							0.4	R	20		
CCV		M0388	0.97205878		1.00		97.2	%	90-110	09/01/2004	2314
CCB			0.00046629							09/01/2004	2319
CCV		M0388	0.95790663		1.00		95.8	%	90-110	09/01/2004	2351
CCB			-0.0001525							09/02/2004	0003

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 09/21/2004

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:

The test results in this report meet all NELAP requirements for parameters for which accreditation is held. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND = Not detected at a value greater than the reporting limit
TNTC = Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB Method Blank
ICB Initial Calibration Blank
CCB Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS Method (Matrix) Spike
MSD Method (Matrix) Spike Duplicate
PDS Post Digestion/Distillation Spike
SB Spiked Blank
SBD Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS Laboratory Control Standard
RS Reference Standard
ICV Initial Calibration Verification Standard

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 09/21/2004

CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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SEVERN TRENT **STL**

No. 25172

CHAIN OF CUSTODY RECORD

0.4°C

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: ARCADIS / ENVICLE	PROJECT NAME/NUMBER:
SEND REPORT TO: KEN BRADNER / RICH MARCUS	**BILLING INFORMATION**
ADDRESS: 711 N CARANCAHUA	BILL TO: RICH MARCUS / ENVICLE
CC TX 78475	ADDRESS:
PHONE: 883 1353	PHONE:
FAX: 883 7565	FAX: PO NO:

LAB JOB NO. 226500

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUESTED: TOTAL LEAD							REMARKS/PRECAUTIONS
	FAC 3 CONCRETE ~~CORE~~ CORE	8-31-04	1540	S	8oz glass	—	1	X							

SAMPLER: JACOB CLEMENTS / ORLANDO GONZALEZ

SHIPMENT METHOD: IN PERSON

AIRBILL NO.: —

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE ☐ OTHER _____

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: [signature]	8/31/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: JACOB CLEMENTS / ARCADIS	TIME 1615	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: [signature]	8/31/04	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: STL-CC	TIME 1615	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

APPENDIX G

ARCADIS

Appendix G

Manifests for Disposable Safety and Cleanup Equipment (Compactor Debris)

...087
...as 78711-3087
...or type. (Form designed for use on elite (12-pitch) typewriter.)

Form approved. OMB No. 2050-0039.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. TXD008117186 Manifest Document No. 41385

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
ENCYCLE/TEXAS, INC.
P.O. BOX 4767
CORPUS CHRISTI, TX 78469
ATTN: RICH MARCUS

4. Generator's Phone (361) 289-0300

A. State Manifest Document Number 3041385

B. State Generator's ID 30003

5. Transporter 1 Company Name: PHILIP INDUSTRIAL

6. US EPA ID Number: TXD980868467

C. State Transporter's ID 84236

D. Transporter's Phone 361-265-9339

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
TEXAS ECOLOGISTS, INC.
3 1/2 MILE S. PETRONILA ROAD
ROBSTOWN, TEXAS 78380

10. US EPA ID Number: TXD069452340

G. State Facility's ID 50052

H. Facility's Phone (361) 387-3518

11A. HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
X	a. RQ, HAZARDOUS WASTE SOLID, N.O.S., CLASS 9, NA3077, PGIII (D004,D005,D006,SEE ATTACHED LIST)	001	CM	41440	P	0015319H
	b.					
	c.					
	d.					

Additional Descriptions for Materials Listed Above
SEE ATTACHED FOR ADDITIONAL EPA WASTE CODES
COMPACTOR DEBRIS
W/S# 09-004-2683 (CERT. OF DISPOSAL REQUESTED) YW 42440#

K. Handling Codes for Wastes Listed Above
M111/M132
STABILIZATION

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CONTACT ENCYCLE/TEXAS SECURITY AT 361-289-0300 ERG# 171
ROLLOFF NO. 1 ; ENCYCLE NO. 5040429-1

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, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state 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: JESSE Lopez | Signature: Jesse Lopez | Month Day Year: 04 29 04

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials | Date
Printed/Typed Name: Chris Yaodionis | Signature: Chris Yaodionis | Month Day Year: 04 29 04

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

FACILITY

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: Sarah Falkin | Signature: Sarah Falkin | Date Month Day Year: 04 29 04

TCEQ-0311 (Rev. 09/01/02) White - original Pink-TSD Facility Yellow-Transporter Green-Generator's first copy

WEIGHER

TEXAS COMMISSION ON
ENVIRONMENTAL QUALITY
P.O. Box 13087
Austin, Texas 78711-3087

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form approved. OMB No. 2050-0039.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. TXD008117186 | Manifest Document No. 40659

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
ENCYCLE/TEXAS, INC.
5500 UP RIVER ROAD
CORPUS CHRISTI, TX 78407
ATTN: RICH MARCUS

4. Generator's Phone (361) 289-6526

A. State Manifest Document Number 3440669

B. State Generator's ID 30003

5. Transporter 1 Company Name: UNION PACIFIC RAILROAD

6. US EPA ID Number: NED001792910

C. State Transporter's ID 40441

D. Transporter's Phone 888-877-7267

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
US ECOLOGY IDAHO, INC.
10.5 MILES NW ON HWY 78, LEMLY ROAD
GRAND VIEW, ID 83624

10. US EPA ID Number: IDD073114654

G. State Facility's ID

H. Facility's Phone (208) 834-2275

11A. HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group)	12. Containers No.	Type	13. Total Quantity		14. Unit Wt/Vol	I. Waste No.
X	a. RQ, HAZARDOUS WASTE SOLID, N.O.S., 9, NA3077, PGIII (D008,F006,F019, SEE ATTACHED)	001	CM	65100	P		0021302H
X	b. RQ, HAZARDOUS WASTE SOLID, N.O.S., 9, NA3077, PGIII (D008,F006,F019, SEE ATTACHED)	001	CM	88760	P		0029504H
X	c. RQ, HAZARDOUS WASTE SOLID, N.O.S., 9, NA3077, PGIII (D008,F006,F019, SEE ATTACHED)	001	CM	07210	P		0015319H
	d.						

J. Additional Descriptions for Materials Listed Above
SEE ATTACHED FOR ADDITIONAL EPA WASTE CODES
a) Lagoon Cleanout W/S# 17103 b) Thickener Solids W/S# 17104
c) Compactor Debris W/S# 17102

K. Handling Codes for Wastes Listed Above
H132

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CONTACT ENCYCLE/TEXAS AT 361-289-6526 ERG# 171
RAILCAR NO. JTLX277 ; ENCYCLE NO. S-041014-1

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, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state 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: JESSE LOPEZ | Signature: Jesse Lopez | Month Day Year: 10 14 04

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials | Date

Printed/Typed Name: KRISTINE E KARSTEN | Signature: Kristine E Karsten | Month Day Year: 10 14 04

18. Transporter 2 Acknowledgement of Receipt of Materials | Date

Printed/Typed Name: | Signature: | Month Day Year:

FACILITY

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. | Date

Printed/Typed Name | Signature | Month Day Year

TEXAS COMMISSION ON
ENVIRONMENTAL QUALITY
P.O. Box 13087
Austin, Texas 78711-3087

ase print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form approved. OMB No. 2050-0039.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. TXD008117186 | Manifest Document No.

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
ENCYCLE/TEXAS, INC.
5500 UP RIVER ROAD
CORPUS CHRISTI, TX 78407
ATTN: RICH MARCUS

4. Generator's Phone (361) 289-6526

A. State Manifest Document Number 3440670

B. State Generator's ID 30003

5. Transporter 1 Company Name: UNION PACIFIC RAILROAD

6. US EPA ID Number: NED001792910

C. State Transporter's ID 40441

D. Transporter's Phone 888-877-7267

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
US ECOLOGY IDAHO, INC.
10.5 MILES NW ON HWY 78, LEMLY ROAD
GRAND VIEW, ID 83624

10. US EPA ID Number: IDD073114654

G. State Facility's ID

H. Facility's Phone (208) 834-2275

11A. HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
X	RQ, HAZARDOUS WASTE SOLID, N.O.S., 9, NA3077, PGIII (D008,F006,F019, SEE ATTACHED)	001	CM	86.14	T	0029504H
	b.					
	c.					
	d.					

J. Additional Descriptions for Materials Listed Above
SEE ATTACHED FOR ADDITIONAL EPA WASTE CODES
a) Thickener Solids W/S# 17104

K. Handling Codes for Wastes Listed Above
H132

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CONTACT ENCYCLE/TEXAS AT 361-289-6526 ERG# 171
RAILCAR NO. JTLX30151 ; ENCYCLE NO. S-041014-2

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, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state 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.

GENERATOR

Printed/Typed Name: JESSE LOPEZ | Signature: Jesse Lopez | Month Day Year: 10 14 04

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials | Date

Printed/Typed Name: KRISTINE E KARSTED | Signature: Kristine E Karsted | Month Day Year: 10 14 04

18. Transporter 2 Acknowledgement of Receipt of Materials | Date

Printed/Typed Name | Signature | Month Day Year

FACILITY

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. | Date

Printed/Typed Name | Signature | Month Day Year

TEXAS COMMISSION ON
ENVIRONMENTAL QUALITY
P.O. Box 13087
Austin, Texas 78711-3087

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form approved. OMB No. 2050-0039.

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. TXD008117186	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address ENCYCLE/TEXAS, INC. 5500 UP RIVER ROAD CORPUS CHRISTI, TX 78407 ATTN: RICH MARCUS	A. State Manifest Document Number 3440671
4. Generator's Phone (361) 289-6526	B. State Generator's ID 30003
5. Transporter 1 Company Name UNION PACIFIC RAILROAD	6. US EPA ID Number NED000179291 — C. State Transporter's ID 40441 — D. Transporter's Phone 888-877-7267
7. Transporter 2 Company Name	8. US EPA ID Number — E. State Transporter's ID — F. Transporter's Phone
9. Designated Facility Name and Site Address US ECOLOGY IDAHO, INC 10.5 MILES NW ON HWY 78, LEMLY ROAD GRAND VIEW, ID 83624	10. US EPA ID Number IDD073114654 — G. State Facility's ID — H. Facility's Phone (208) 834-2275

11A. HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
X	RQ, HAZARDOUS WASTE SOLID, N.O.S., 9, NA3077, PGIII (D008,F006,F019, SEE ATTACHED)	001	CM1	87.76 T		0029504H
	b.					
	c.					
	d. SEE ATTACHED FOR ADDITIONAL EPA WASTE CODES a) Thickener Solids W/S# 17104					H132

J. Additional Descriptions for Materials Listed Above

IN CASE OF EMERGENCY CONTACT ENCYCLE/TEXAS AT 361-289-6526
RAILCAR NO. JTLX30165 ENCYCLE NO. S-041014-3

K. Handling Codes for Wastes Listed Above

ERG# 171

15. Special Handling Instructions and Additional Information

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, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state 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	Month	Day	Year
JESSE LOPEZ	Jesse Lopez	10	14	04

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials		Date		
Printed/Typed Name	Signature	Month	Day	Year
KRISTINE E. KRASTER	Kristine E. Kraster	10	14	04

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

FACILITY

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	Signature	Date Month	Day	Year

TCEQ-0311 (Rev. 09/01/02) White - original Pink-TSD Facility Yellow-Transporter Green-Generator's first copy

APPENDIX H

ARCADIS

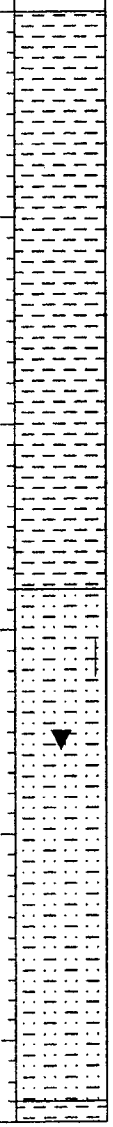
Appendix H

Monitor Well Completion Diagrams

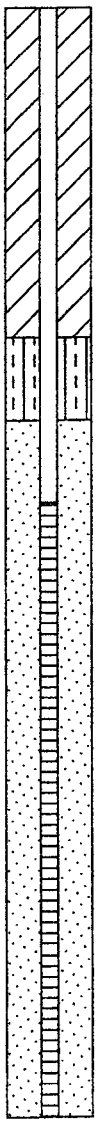
WELL LOG

DEPTH	SAMPLE DESCRIPTION
	0–4' Medium dark brown, silty clay (CL), stiff.
5	4–6' Pale brown, silty clay (CL), stiff.
	6–10' Very pale yellowish brown, silty clay (CL), stiff.
10	10–14' Very pale orange, silty clay (CL), stiff.
15	14–26.5' Very pale orange brown, clayey silt (ML), saturated at 18 feet.
20	
25	26.5–27' Very pale olive, clay (CL). Total depth = 27 feet.

SYMBOL



COMPLETION



MW–13	
WELL	
ENCYCLE/TEXAS	
CLIENT	
CC000642.0002	
PROJECT	
CORPUS CHRISTI, TEXAS	
LOCATION	
NOVEMBER 14, 2001	
DATE	
HOLLOW–STEM AUGER	
DRILLING METHOD	
2" PVC	0–12'
CASING	
2" PVC; SLOTTED	12–27'
SCREEN	
	0–8'
CEMENT	
	8–10'
BENTONITE	
	10–27'
SAND PACK	
---/27.47'	
GROUND ELEV./TOP OF CASING ELEV.	

CT – CUTTINGS
SB – SPLIT BARREL(5')
SS – SPLIT SPOON (2')

HC LEVEL
WATER LEVEL

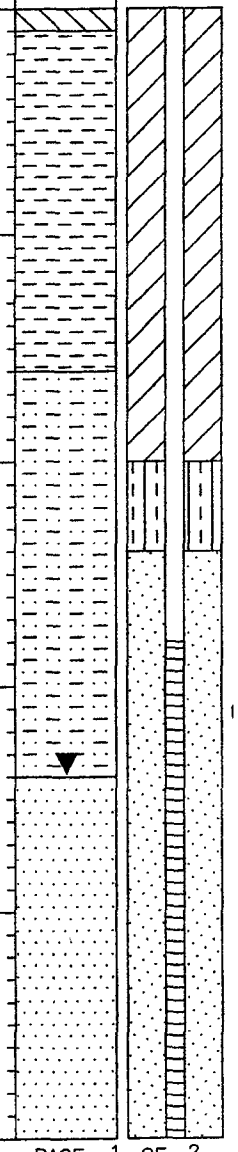
SAND
SILT
CLAY
FILL/CONCRETE
BENTONITE
GRAVEL

ARCADIS

WELL LOG

DEPTH	SAMPLE DESCRIPTION
	0–0.5' Loose gravel fill.
	0.5–1' Pale brown, silty clay (CL).
	1–8' Very pale orange/tan, silty clay (CL).
5	
10	8–14' Very pale olive, clayey silt (ML).
15	14–17' Dusky yellow, silt (ML).
	17–18' Pale olive, silty sand (SM), very fine grained, saturated at 17 feet.
20	18–27' Pale olive, sand (SP), very fine to fine grained.

SYMBOL



COMPLETION

MW–15	
WELL	
ENCYCLE/TEXAS	
CLIENT	
CC000642.0002	
PROJECT	
CORPUS CHRISTI, TEXAS	
LOCATION	
NOVEMBER 19, 2001	
DATE	
HOLLOW–STEM AUGER	
DRILLING METHOD	
2" PVC	0–14'
CASING	
2" PVC; SLOTTED	14–34'
SCREEN	
	0–10'
CEMENT	
	10–12'
BENTONITE	
	12–34'
SAND PACK	
---/22.71'	
GROUND ELEV./TOP OF CASING ELEV.	

CT – CUTTINGS
SB – SPLIT BARREL(5')
SS – SPLIT SPOON (2')

HC LEVEL
WATER LEVEL

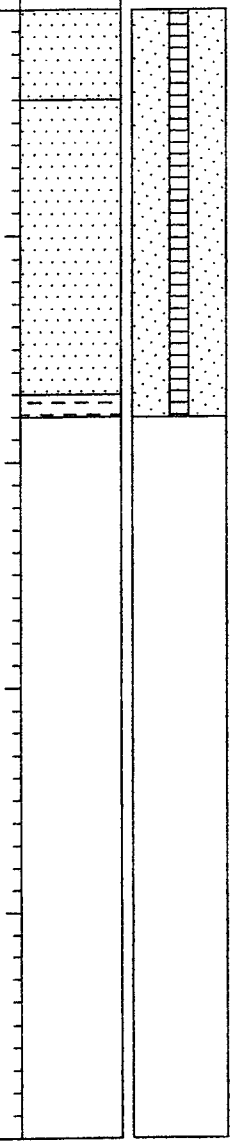
SAND
SILT
CLAY
FILL/CONCRETE
BENTONITE
GRAVEL

ARCADIS

WELL LOG

DEPTH	SAMPLE DESCRIPTION
30	27–33.5' Pale orange/tan, sand (SP), fine to medium grained.
35	33.5–34' Pale orange/tan, clay (CL).
	Total depth = 34 feet.

SYMBOL | COMPLETION



MW–15	WELL
ENCYCLE/TEXAS	CLIENT
CC000642.0002	PROJECT
CORPUS CHRISTI, TEXAS	LOCATION
NOVEMBER 19, 2001	DATE
HOLLOW–STEM AUGER	DRILLING METHOD
2" PVC 0–14'	CASING
2" PVC; SLOTTED 14–34'	SCREEN
0–10'	CEMENT
10–12'	BENTONITE
12–34'	SAND PACK
---/22.71'	GROUND ELEV./TOP OF CASING ELEV.

CT – CUTTINGS
SB – SPLIT BARREL(5')
SS – SPLIT SPOON (2')

▽ HC LEVEL
▼ WATER LEVEL

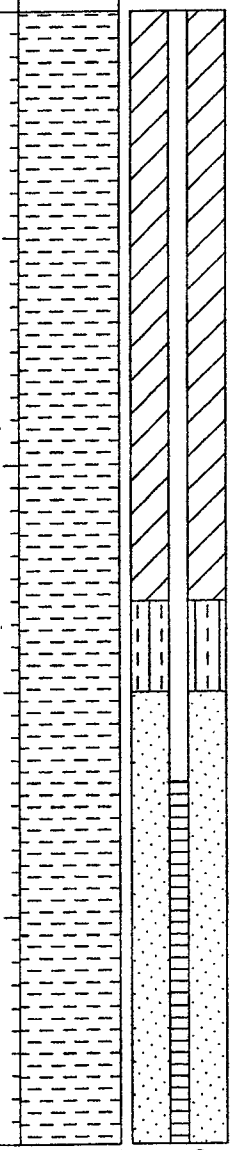
SAND
SILT
CLAY
FILL/CONCRETE
BENTONITE
GRAVEL

ARCADIS

WELL LOG

DEPTH	SAMPLE DESCRIPTION
	0–2' Moderate grayish black, clay (CL).
	2–4' Moderate greenish gray, silty clay (CL).
5	4–6' Very pale olive, silty clay (CL).
	6–26' Very pale orange/tan, silty clay (CL).
10	
15	
20	

SYMBOL | COMPLETION



MW–17
WELL

ENCYCLE/TEXAS
CLIENT

CC000642.0002
PROJECT

CORPUS CHRISTI, TEXAS
LOCATION

NOVEMBER 19, 2001
DATE

HOLLOW–STEM AUGER
DRILLING METHOD

2" PVC 0–17'
CASING

2" PVC; SLOTTED 17–37'
SCREEN

0–13'
CEMENT

13–15'
BENTONITE

15–37'
SAND PACK

----/26.87'
GROUND ELEV./TOP OF CASING ELEV.

CT – CUTTINGS
SB – SPLIT BARREL(5')
SS – SPLIT SPOON (2')

HC LEVEL
WATER LEVEL

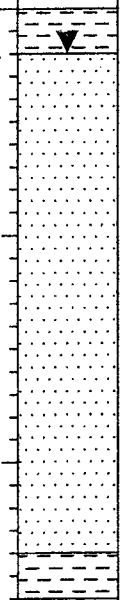
SAND
SILT
CLAY
FILL/CONCRETE
BENTONITE
GRAVEL

ARCADIS

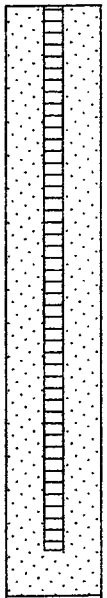
WELL LOG

DEPTH	SAMPLE DESCRIPTION
30	26–37' Very pale olive, sand (SP), very fine grained. Saturated.
35	37–38' Tan, clay (CL).
40	Total depth = 38 feet.

SYMBOL



COMPLETION



MW–17	
WELL	
ENCYCLE/TEXAS	
CLIENT	
CC000642.0002	
PROJECT	
CORPUS CHRISTI, TEXAS	
LOCATION	
NOVEMBER 19, 2001	
DATE	
HOLLOW–STEM AUGER	
DRILLING METHOD	
2" PVC	0–17'
CASING	
2" PVC; SLOTTED	17–37'
SCREEN	
	0–13'
CEMENT	
	13–15'
BENTONITE	
	15–37'
SAND PACK	
---/26.87'	
GROUND ELEV./TOP OF CASING ELEV.	

CT – CUTTINGS
SB – SPLIT BARREL(5')
SS – SPLIT SPOON (2')

HC LEVEL
WATER LEVEL

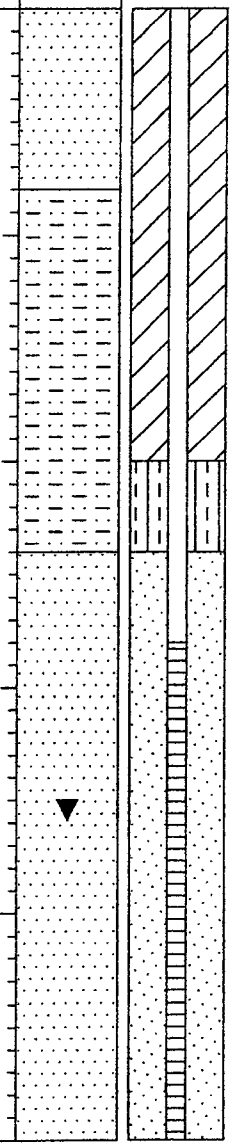
SAND
SILT
CLAY
FILL/CONCRETE
BENTONITE
GRAVEL

ARCADIS

WELL LOG

DEPTH	SAMPLE DESCRIPTION
	0–4' Medium dark brown, sand (SP), very fine grained with abundant loose fill.
5	
	4–12' Very pale orange gray, clayey silt (ML).
10	
15	
	12–28.5' Very pale orange, sand (SP), very fine to fine grained, saturated at 18 feet.
20	

SYMBOL



COMPLETION

MW–18	
WELL	
ENCYCLE/TEXAS	
CLIENT	
CC000642.0002	
PROJECT	
CORPUS CHRISTI, TEXAS	
LOCATION	
NOVEMBER 13, 2001	
DATE	
HOLLOW–STEM AUGER	
DRILLING METHOD	
2" PVC	0–14'
CASING	
2" PVC; SLOTTED	14–29'
SCREEN	
	0–10'
CEMENT	
	10–12'
BENTONITE	
	12–29'
SAND PACK	
---/24.01'	
GROUND ELEV./TOP OF CASING ELEV.	

CT – CUTTINGS
SB – SPLIT BARREL(5')
SS – SPLIT SPOON (2')

▽ HC LEVEL
▼ WATER LEVEL

SAND
SILT
CLAY
FILL/CONCRETE
BENTONITE
GRAVEL

ARCADIS

WELL LOG

DEPTH	SAMPLE DESCRIPTION	SYMBOL	COMPLETION
30	28.5–29' Very pale olive, clay (CL).		
	Total depth = 29 feet.		
35			

WELL	MW–18
CLIENT	ENCYCLE/TEXAS
PROJECT	CC000642.0002
LOCATION	CORPUS CHRISTI, TEXAS
DATE	NOVEMBER 13, 2001
DRILLING METHOD	HOLLOW–STEM AUGER
CASING	2" PVC 0–14'
SCREEN	2" PVC; SLOTTED 14–29'
CEMENT	0–10'
BENTONITE	10–12'
SAND PACK	12–29'
GROUND ELEV./TOP OF CASING ELEV.	---/24.01'

CT – CUTTINGS
SB – SPLIT BARREL(5')
SS – SPLIT SPOON (2')

HC LEVEL
WATER LEVEL

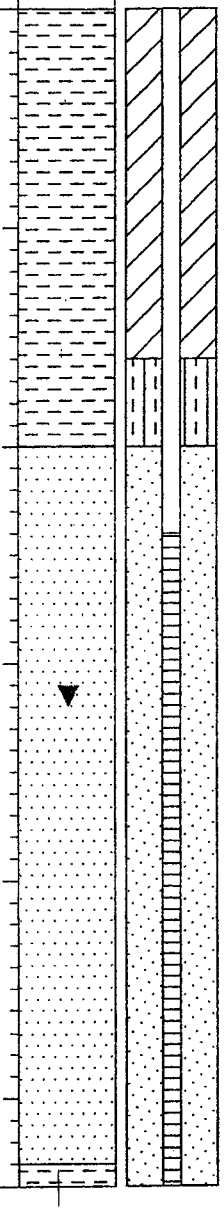
SAND
SILT
CLAY
FILL/CONCRETE
BENTONITE
GRAVEL

ARCADIS

WELL LOG

DEPTH	SAMPLE DESCRIPTION
	0–4' Tan, silty clay (CL), stiff.
5	4–7' Moderate dark brown to black, silty clay (CL), stiff.
	7–10' Very pale olive brown, silty clay (CL), stiff.
10	10–14' Tan/very pale yellowish brown, loose silty sand (SM).
15	14–26.5' Very pale yellowish brown to tan, sand (SP), very fine grained, saturated at 16 feet.
20	
25	26.5–27' Very pale olive to tan, clay (CL).
	Total depth = 27 feet.

SYMBOL



COMPLETION

WELL	MW–19
CLIENT	ENCYCLE/TEXAS
PROJECT	CC000642.0002
LOCATION	CORPUS CHRISTI, TEXAS
DATE	NOVEMBER 12, 2001
DRILLING METHOD	HOLLOW–STEM AUGER
CASING	2" PVC 0–12'
SCREEN	2" PVC; SLOTTED 12–27'
CEMENT	0–8'
BENTONITE	8–10'
SAND PACK	10–27
GROUND ELEV./TOP OF CASING ELEV.	---/23.63'

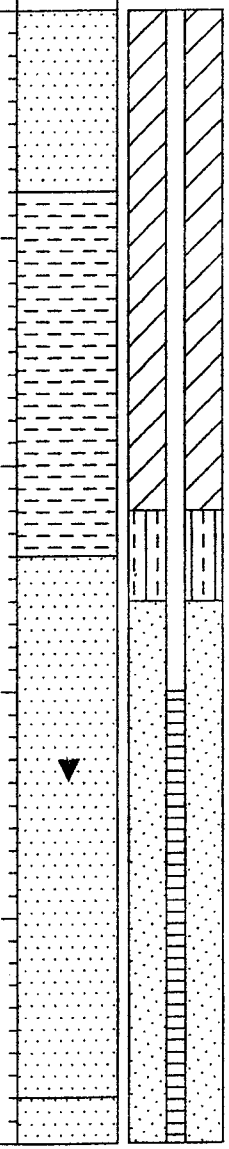
CT – CUTTINGS
SB – SPLIT BARREL(5')
SS – SPLIT SPOON (2')
HC LEVEL
WATER LEVEL
SAND
SILT
CLAY
FILL/CONCRETE
BENTONITE
GRAVEL

ARCADIS

WELL LOG

DEPTH	SAMPLE DESCRIPTION
	0–4' Moderate brown, silty sand (ML/SM).
5	4–6' Very pale olive gray, silty clay (CL).
10	6–12' Very pale orange, silty clay (CL).
	12–16' Very pale light reddish brown, sand (SP), very fine grained.
15	16–24' Very pale light yellowish brown, sand (SP), very fine grained, saturated at 17 feet.
20	

SYMBOL



COMPLETION

MW–20	
WELL	
ENCYCLE/TEXAS	
CLIENT	
CC000642.0002	
PROJECT	
CORPUS CHRISTI, TEXAS	
LOCATION	
NOVEMBER 20, 2001	
DATE	
HOLLOW–STEM AUGER	
DRILLING METHOD	
2" PVC	0–15'
CASING	
2" PVC; SLOTTED	15–35'
SCREEN	
	0–11'
CEMENT	
	11–13'
BENTONITE	
	13–35'
SAND PACK	
---/23.82'	
GROUND ELEV./TOP OF CASING ELEV.	

CT – CUTTINGS
SB – SPLIT BARREL(5')
SS – SPLIT SPOON (2')

▽ HC LEVEL
▼ WATER LEVEL

SAND
SILT
CLAY
FILL/CONCRETE
BENTONITE
GRAVEL

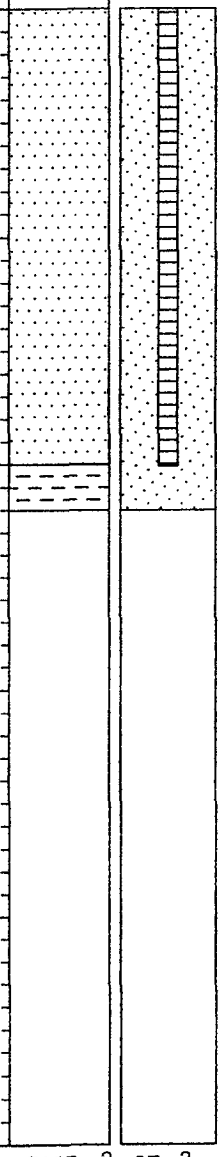
ARCADIS

WELL LOG

DEPTH	SAMPLE DESCRIPTION
30	24–35' Very pale light yellowish brown, sand (SP), fine to medium grained.
35	35–36' Tan, clay (CL).
	Total depth = 36 feet.

SYMBOL

COMPLETION



WELL	MW–20
CLIENT	ENCYCLE/TEXAS
PROJECT	CC000642.0002
LOCATION	CORPUS CHRISTI, TEXAS
DATE	NOVEMBER 20, 2001
DRILLING METHOD	HOLLOW–STEM AUGER
CASING	2" PVC 0–15'
SCREEN	2" PVC; SLOTTED 15–35'
CEMENT	0–11'
BENTONITE	11–13'
SAND PACK	13–35'
GROUND ELEV./TOP OF CASING ELEV.	---/23.82'

CT – CUTTINGS
SB – SPLIT BARREL(5')
SS – SPLIT SPOON (2')

HC LEVEL
WATER LEVEL

SAND
SILT
CLAY
FILL/CONCRETE
BENTONITE
GRAVEL

ARCADIS