

SOIL INTERIM RESPONSE ACTION REPORT

**FORMER WILLOW RUN ASSEMBLY PLANT
GM COMPANY VEHICLE OPERATIONS (CVO) AREA
YPSILANTI, MICHIGAN**

Prepared for: ENCORE

**OCTOBER, 2003
REF. NO. 17303 (5)**

EXECUTIVE SUMMARY

Conestoga-Rovers & Associates (CRA) was retained by ENCORE to design and implement a Soil Interim Response Action (Soil IRA) at the GM Company Vehicle Operations (CVO) Area at the former Willow Run Assembly Plant located in Ypsilanti, Michigan (Site). The soil has been impacted by chlorinated and non-chlorinated volatile organic compounds (VOCs). This report summarizes the full-scale implementation of the soil IRA.

The Site consists of an administrative and maintenance/garage building and a large parking lot. A groundwater IRA is being conducted in two areas at this Site to reduce the concentration of target VOC constituents by a chemical oxidation process. This process is achieved by injecting Potassium Permanganate into two areas with highest VOC concentrations at the Site.

During monitoring and injection activity, free product, light non-aqueous phase liquid (LNAPL) was observed in two injection wells within Injection Area 1. It was also determined that several underground utilities are located beneath the Site and may be acting as preferential migration pathways. Prior to implementing the Soil IRA, several investigations were completed to determine the condition and location of underground utilities in the area of the planned Soil IRA. The Soil IRA was designed to eliminate LNAPL-impacted soils, and included the following tasks:

- Relocation of the Above Ground Storage Tank (AST), and
- Excavation of LNAPL-impacted soil near and below the AST location

A concrete pad was constructed and the AST was relocated to the south side of the Site. The LNAPL-impacted soil in the vicinity of AST location area was excavated. A total of 225 cubic yards of impacted soil was removed from the Site. The excavated cavity was backfilled with the excavated overburden material and clean fill.

There is no evidence that the AST was the source of the impacted soil. Further, a specific LNAPL source could not be located.

This Soil IRA accomplished its goal of removing LNAPL-impacted soil from a limited area to eliminate an ongoing source of groundwater contamination that was limiting chemical oxidation remediation progress.

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LIST OF ACRONYMS

AST	ABOVEGROUND STORAGE TANK
bgs	BELOW GROUND SURFACE
COC	CONSTITUENTS OF CONCERN
CRA	CONESTOGA-ROVERS & ASSOCIATES
CVO	COMPANY VEHICLE OPERATIONS
EM	ELECTROMAGNETIC
EZ	EXCLUSIVE ZONE
GPR	GROUND PENETRATING RADAR
IRA	INTERIM RESPONSE ACTION
IWPC	INLAND WATERS POLLUTION CONTROL, INC.
LNAPL	LIGHT NON-AQUEOUS PHASE LIQUID
MDEQ	MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
MDOT	MICHIGAN DEPARTMENT OF TRANSPORTATION
PCB	POLYCHLORINATED BIPHENYL
PID	PHOTOIONIZATION DETECTOR
PPE	PERSONAL PROTECTIVE EQUIPMENT
PPM	PARTS PER MILLION
SOW	STATEMENT OF WORK
VOC	VOLATILE ORGANIC COMPOUND

1.0 INTRODUCTION

1.1 GENERAL

Conestoga-Rovers & Associates, Inc. (CRA) was retained by ENCORE¹ to design and implement a Soil Interim Response Action (IRA) at the GM Company Vehicle Operations (CVO) Area at the former Willow Run Assembly Plant located in Ypsilanti, Michigan (Site). Figure 1.1 presents the Site location. The general layout of the Site is presented on Figure 1.2. The Site groundwater has been impacted by chlorinated and non-chlorinated volatile organic compounds (VOCs).

A Groundwater IRA was conducted at the Site by injecting chemical oxidant (Potassium Permanganate) using several injection wells in high concentration areas to reduce the contaminants of concern (COC) concentrations in the groundwater. During the Groundwater IRA, light non-aqueous phase liquid (LNAPL) was observed in two injection wells within Injection Area 1.

This Soil IRA was designed to increase the effectiveness of the groundwater IRA by removing soils impacted with LNAPL which consumes the chemical oxidant, reducing the effectiveness of the injections. Underground utilities located within the Site that may be acting as preferential migration pathways for the transport of contaminants to surface water were investigated.

The utility investigation and Soil IRA activities were completed between June 3, 2003 and July 12, 2003.

1.2 REPORT ORGANIZATION

This report is presented in the following sections:

- 1.0 Introduction
- 2.0 Scope of Work
- 3.0 Project Management
- 4.0 Health and Safety and Ambient Air Monitoring
- 5.0 Project Quality Assurance Plans
- 6.0 Conclusions and Recommendations

¹ ENCORE is a wholly owned subsidiary of General Motors.

2.0 SCOPE OF WORK

The Soil IRA scope of work (SOW) involved excavating LNAPL-impacted soils for disposal. Prior to implementing the Soil IRA, several investigations were completed to determine the condition and location of underground utilities in the area of the planned Soil IRA.

2.1 UTILITY INVESTIGATION

The SOW consisted of the following investigative activities:

- Videotaping storm sewers to check the general integrity of the piping located within the proposed excavation area;
- Conducting ground penetration radar (GPR) survey at the Site to locate a former diesel fuel line and to locate utilities along the south side of the Site; and
- Excavating tests to verify locations of the former diesel line, investigate the sinkhole, inspect bedding of a storm sewer line, and investigate the potential depth of soil contamination.

2.1.1 STORM SEWER INTEGRITY INSPECTION

Several storm sewers were televised by Inland Water Pollution Control, Inc. (IWPC) on May 1, 2003 prior to excavating test pits to determine the condition of the sewers. The video inspection indicated that the general integrity of storm sewer piping was good, but showed evidence of leaks at most joints. A copy of the report prepared by IWPC is presented in Appendix A.

2.1.2 GROUND PENETRATING RADAR STUDY

A GPR study was conducted at the Site in an attempt to locate the former diesel line and other utilities on May 6, 7 and 8, 2003. GPR is a short-range system for remote sensing, which measures short pulse electromagnetic (EM) reflections due to variations in the electrical properties of the investigated medium. GPR uses high frequency pulsed electromagnetic waves to acquire subsurface information. The electromagnetic wave radiated from a transmitting antenna, travels through the material at a velocity dependent on the electrical properties of the material. As the wave propagates, it hits

objects or boundaries with different electrical properties, and part of the wave energy is reflected or scattered back to the source. The wave that is reflected back is captured by an antenna and an image is created that is reflective of distances to the materials and boundaries present beneath the surface. The results of the GPR study indicated the presence of underground utilities at the south side of the Site, but to failed to positively identify the location of the diesel line due to interference. A copy of the GPR survey report is presented in Appendix B.

2.1.3 TEST PITS

CRA excavated four test pits (TP-1, TP-2, TP-5, and TP-6) to primarily investigate the location of the former diesel line and evaluate the condition of the soils. The former diesel fuel line was not found in any of the test pits. An electrical conduit was found in one of the test pits (TP-6). Two additional test pits were conducted to investigate a former sink hole location (TP-4) and the sewer bedding near Manhole 2 (TP-3).

CRA collected at least one soil sample of material at each test pit for waste characterization for the Soil IRA. The results are compiled in Table 2.1. Copies of analytical results are presented in Appendix C.

2.1.3.1 FORMER DIESEL FUEL LINE TEST PIT - TP-1

This test pit located to the south of the shed area was excavated on June 3, 2003 (Figure 2.1). The dimensions of this test pit were 13 feet long, 5 feet wide and 11 feet deep. The excavation involved removal of a concrete layer to an approximate depth of 1 foot below ground surface (bgs). A gravel sub-grade was observed up to a depth of 18 inches bgs, followed by silty gray sand to a depth of at least 11 feet bgs.

During the excavation activity, strong petroleum and solvent odors were noticed at depths between and 1 and 11 feet bgs. Groundwater was encountered at a depth of 11 feet bgs. The groundwater had an oily sheen with LNAPL observed on the water surface.

A total of approximately 36 cubic yards of soil was excavated from this location. The test pit was backfilled and compacted with the excavated material. Field screening of excavated soil using a photo-ionization detector (PID) indicated a reading of 14.1 parts per million (ppm). This investigation did not confirm the presence of conduits

identified during the GPR study. The suspected diesel fuel line was not observed in TP-1.

2.1.3.2 FORMER DIESEL FUEL LINE TEST PIT - TP-2

This test pit located to the north of the Haulaway Building was excavated on June 3, 2003 (Figure 2.1). The dimensions of this test pit were 11 feet long, 3.5 feet wide and 6 feet deep. The excavation involved removal of a concrete layer to a depth of 9 inches bgs, followed by heterogeneous mixture of sand, gravel, broken concrete and wood floor blocks to a depth of at least 6 feet bgs.

Visual observation during excavation indicated no visible signs of impact in the soil. No groundwater was encountered or expected during excavation based on the shallow depth of excavation. No conduits were identified in this test pit. The suspected diesel fuel line was not observed in TP-2.

A total of approximately 8 cubic yards of soil was excavated from this location. The test pit was backfilled and compacted with the excavated material. Field screening of excavated soil using a PID did not indicate any readings.

2.1.3.3 FORMER DIESEL FUEL LINE TEST PIT - TP-5

This test pit located to the southeast side of the Haulaway Building at the south edge of the parking lot was excavated on June 5, 2003 (Figure 2.1). The dimensions of this test pit were 10 feet long, 4.6 feet wide and 11 feet deep. The excavation involved removal of a concrete layer to a depth of 10 inches, followed by gravel to a depth of 1.5 feet. Moist brown silty sand was excavated at depths between 1.5 and 5 feet bgs, followed by gray sand to a depth of 11 feet bgs.

During the excavation activity, strong solvent odors were noticed at depths between and 5.5 and 11 feet bgs. Evidence of groundwater was visible at a depth of 11 feet bgs. No conduits were identified in the test pit. The suspected diesel fuel line was not observed in TP-5.

A total of approximately 19 cubic yards of soil was excavated from this location. The test pit was backfilled and compacted with the excavated material. Field screening of excavated soil using a PID indicated a reading of 20.3 ppm.

2.1.3.4 FORMER DIESEL FUEL LINE TEST PIT - TP-6

This test pit located to the northeast side of the Haulaway Building was excavated on June 4, 2003 (Figure 2.1). The dimensions of this test pit were 8.5 feet long, 3 feet wide and 6.5 feet deep. The excavation involved removal of a concrete layer to a depth of 8 inches, followed by brown silty sand to a depth of 3 inches. This layer was followed by a heterogeneous mixture of gray sand, broken concrete, wood and other fill material to a depth at least 6.5 feet bgs. The excavation was terminated at 6.5 feet bgs.

During excavation activity, petroleum odor was noticed at depths between and 3 and 6.5 feet bgs. No groundwater was encountered or expected at this location. An electric conduit was encountered at 8 inches bgs. The suspected diesel fuel line was not observed in TP-6.

A total of approximately 7 cubic yards of soil was excavated from this location. The test pit was backfilled and compacted with the excavated material. Field screening of excavated soil using a PID did not indicate any readings.

2.1.3.5 SINK HOLE TEST PIT - TP-4

The sink hole test pit located near the northern Site boundary just northwest of MW3 was excavated to investigate the reason for the sink hole (Figure 2.1). This excavation was completed on June 3, 2003. The dimensions of this test pit were 10.5 feet long, 8 feet wide and 5 feet deep.

The excavation identified solidified bags of concrete, rusted deteriorated drums remnants, yellow fragments of paints and pigments, garbage, remnants of fiberglass drums, solidified brown primers, copper cables and bricks at depths between 1.25 and 4 feet bgs. No utility or groundwater was encountered during this excavation.

A total of approximately 16 cubic yards of soil and buried materials were excavated from this location. The test pit was backfilled and compacted with the excavated material. Field screening of excavated soil using a PID indicated a reading of 30.8 ppm.

2.1.3.6 SEWER PIPE TEST PIT - TP-3

This test pit was located at the sewer area adjacent to Manhole 2 (Figure 2.1). The test pit was conducted to determine if impacted groundwater could be utilizing the sewer bedding as a preferential pathway to Tyler Pond.

The dimension of this test pit was 16 feet long, 12 feet wide and 11 feet deep. The excavation involved removal of 3 inches of an asphalt layer, followed by a heterogeneous mixture of fill sand, gravel and wet sand around the pipe to a depth of 11 feet bgs.

Visual observation during excavation indicated no visible signs of impact in the soil. No groundwater was encountered during excavation. A total of approximately 78 cubic yards of soil was excavated from this location. The test pit was backfilled and compacted with the excavated material.

2.2 SOIL IRA

The Soil IRA SOW consisted of the following tasks:

- Relocate the Above Ground Storage Tank (AST); and,
- Excavation of soil in the vicinity of AST area to remove LNAPL-impacted soils.

CRA's responsibilities included design, construction oversight and documentation of the Soil IRA activities conducted at the Site and to ensure that the IRA activities were properly implemented.

2.2.1 RELOCATION OF AST

Two ASTs were present within the proposed excavation area. These ASTs were used daily and required relocation prior to the soil excavation. One AST contained gasoline and consisted of two 3,000-gallon tanks within one concrete secondary containment unit. The second AST was a 1,000-gallon diesel AST. The diesel AST was removed by the Site operators prior to the Soil IRA. There was no evidence that these ASTs leaked.

The SOW involved installation of a new 6-inch reinforced concrete pad, electrical disconnect and reconnects for the gasoline AST, repositioning and reconnecting of the AST and demolition, transport and disposal of the old concrete pad.

The application for the installation of the AST was submitted to the Michigan Department of Environmental Quality (MDEQ), Waste and Hazardous Materials Division on June 24, 2003. The MDEQ issued a plan review approval notice (reference number: PR-0182-03) on July 2, 2003. The AST was relocated to the new AST pad. An MDEQ inspector conducted an inspection on July 11, 2003 and issued an approval to place the AST back in service.

2.2.2 EXCAVATION OF IMPACTED SOIL

The soil excavation started on July 2, 2003. The approximate limits of the excavation are presented in Figure 2.1. The limits of excavation were determined based on observations made during the installation of the injection wells and results of the test pit activities. Soils were excavated to a depth of approximately 12 feet bgs. The water table is located at approximately 11 feet bgs. The soil interval from 9 to 12 feet bgs was excavated and stored in roll-off boxes or in a pile (covered with visqueen) until disposed. This material is expected to be the smear zone due to fluctuating groundwater levels throughout the year. The overburden, 0 to 9 feet bgs was used as backfill. A total of 225 cubic yards (375 tons) of non-hazardous soil was disposed of in a licensed landfill. Copies of the disposal manifests are presented in Attachment D.

The 9 to 12 feet bgs interval was backfilled with approximately 3 feet of pea gravel and covered with filter fabric. Two sumps were located within the excavation to facilitate groundwater access at the pea gravel layer at a later date, if needed. The excavation was backfilled with the excavated overburden and clean fill sand. The backfill material was properly compacted. The excavation activity was completed on July 12, 2003.

During the excavation activity, a 2.5-inch diameter diesel pipeline was encountered just west of the shed. Product was evident in the pipe. Approximately 5 gallons of diesel oil was drained from the pipe and containerized in a Michigan Department of Transportation (MDOT) approved 55-gallon drum for disposal. The section of the pipe passing through the area of excavation was removed to prevent hindrance of the excavation activity. The diesel pipe was capped on July 8, 2003, prior to backfilling the excavation.

An 18-inch diameter storm sewer pipe was also encountered within the excavation area. A section of this pipe passing through the area of excavation was removed on July 8, 2003 to prevent hindrance of the excavation activity. The section of the removed pipe was replaced the same day, prior to backfilling the excavation.

Excavation was conducted down to the groundwater table. Significant rain events during the excavation activity required the removal of groundwater from the excavation. Approximately 4,000 gallons of groundwater was placed into a Frac Tank until properly disposed of.

The removed groundwater was characterized and disposed as a hazardous waste (D043) on August 12, 2003.

3.0 PROJECT MANAGEMENT

3.1 CONSTRUCTION MANAGEMENT

CRA conducted the investigation and provided oversight of excavation and construction activities at the Site.

The following companies also provided services for this project

- i. IWPC conducted video inspection of the storm sewer and a portion of the diesel fuel line. IWPC also performed soil excavation and assisted with the transportation and disposal of soil and water;
- ii. A.F. Smith Electricians provided electrical repairs during test pit excavations;
- iii. North Point Electrical provided electrical disconnect and reconnect for the ASTs;
- iv. Disposal Facilities:
 - Woodland Meadows Landfill: Disposal of excavated soil (non-hazardous);
 - Edwards Oil Service: Disposal of storm sewer cleaning water (non-hazardous);
 - US Liquids of Detroit: Disposal of groundwater removed from excavation (characteristically hazardous for vinyl chloride - D043); and
 - Chemical Waste Management Model City Landfill – Disposal of storm sewer cleaning solids/sediments (non-hazardous).

3.2 PROJECT DOCUMENTATION

CRA maintained a daily Site logbook for documentation of Site activities. Records that were maintained on a daily basis included weather conditions, on-Site personnel, remedial activities conducted, and excavation details. Copies of the project documentation and reporting are maintained at CRA's Michigan office in Plymouth, Michigan.

3.3 SITE SECURITY

The GM CVO facility is a secure facility due to the nature of normal business activities. No additional security was necessary or provided during this Soil IRA. The existing Site security is provided 24 hours a day and 7 days a week.

4.0 HEALTH AND SAFETY AND AMBIENT AIR MONITORING

4.1 WORK ZONE

The area enclosed within the excavation area was defined as the Exclusion Zone (EZ). The contaminant reduction zone consisted of an equipment decontamination area and surrounding area. All remaining areas were designated as support zones. Personal Protective Equipment (PPE) was utilized for Site operations, as required.

4.2 HEALTH AND SAFETY MONITORING

Air monitoring was conducted at the Site to ensure the protection of Site personnel. Air monitoring was conducted in accordance with the Health and Safety Plan prepared by CRA (Health and Safety Plan-Test Pits) dated May 22, 2003. Air monitoring was performed during construction activities with a PID and calorimetric tube for vinyl chloride.

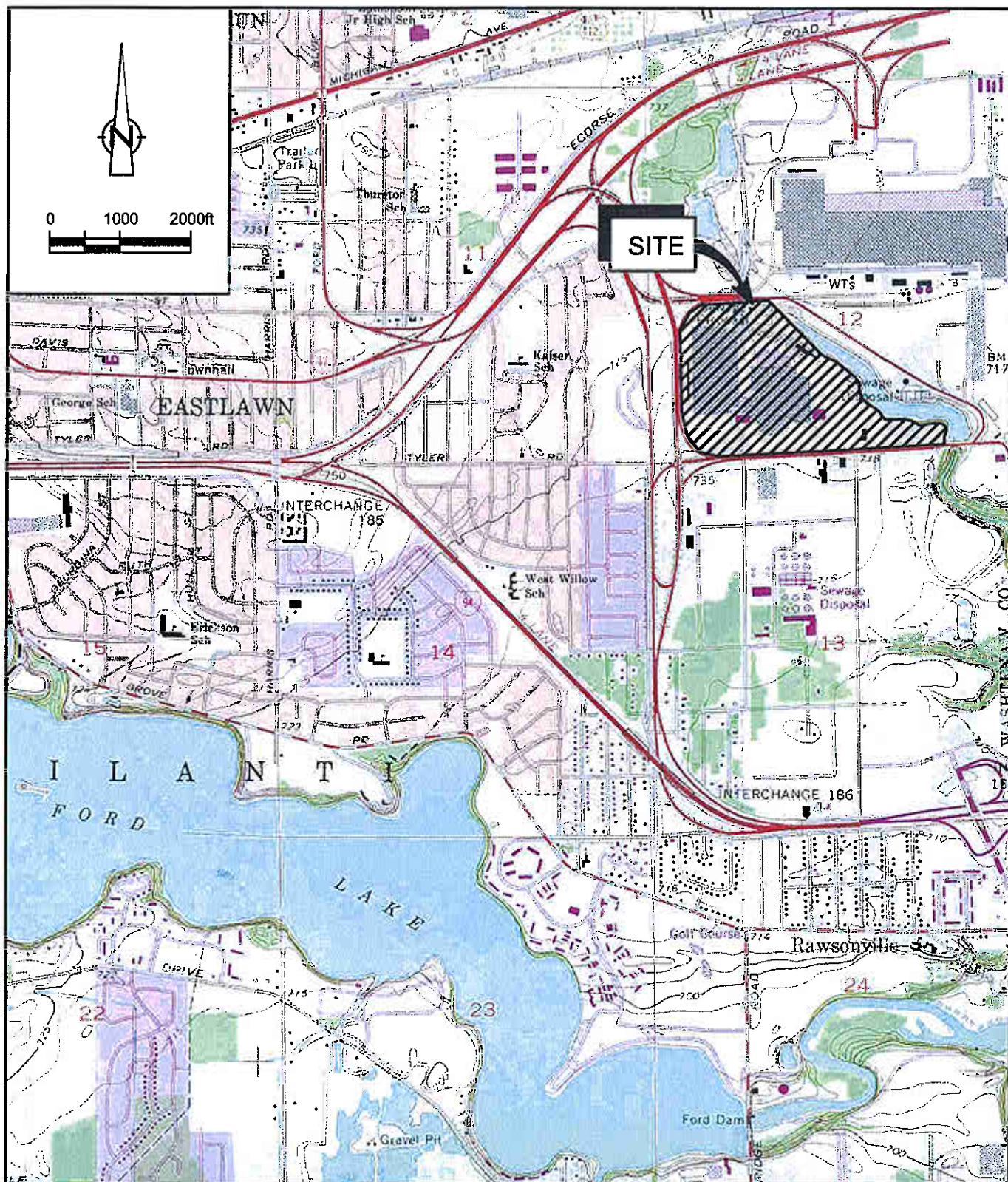
Generally, there were no significant detections of any constituents that required upgrading the PPE.

5.0 PROJECT QUALITY ASSURANCE PLANS

CRA adhered to strict project quality assurance procedures including discussions on the SOW, inspections, testing, quality control and reporting requirements. Polychlorinated biphenyl (PCB) wipe samples were collected from the excavation equipment used in the Soil IRA activity when it arrived at the Site to prevent cross contamination from external sources. The analytical results of this wipe sample analysis did not identify PCB concentrations above method detection limits. Copies of wipe sample analytical results are presented in Appendix C.

6.0 CONCLUSIONS

CRA, on behalf of ENCORE, performed a Soil IRA at the CVO Site during a two-week Site shutdown in July 2003. This Soil IRA included the removal of LNAPL-impacted soil from a limited area to remove a source of contamination that was likely interfering with the groundwater remediation activities.



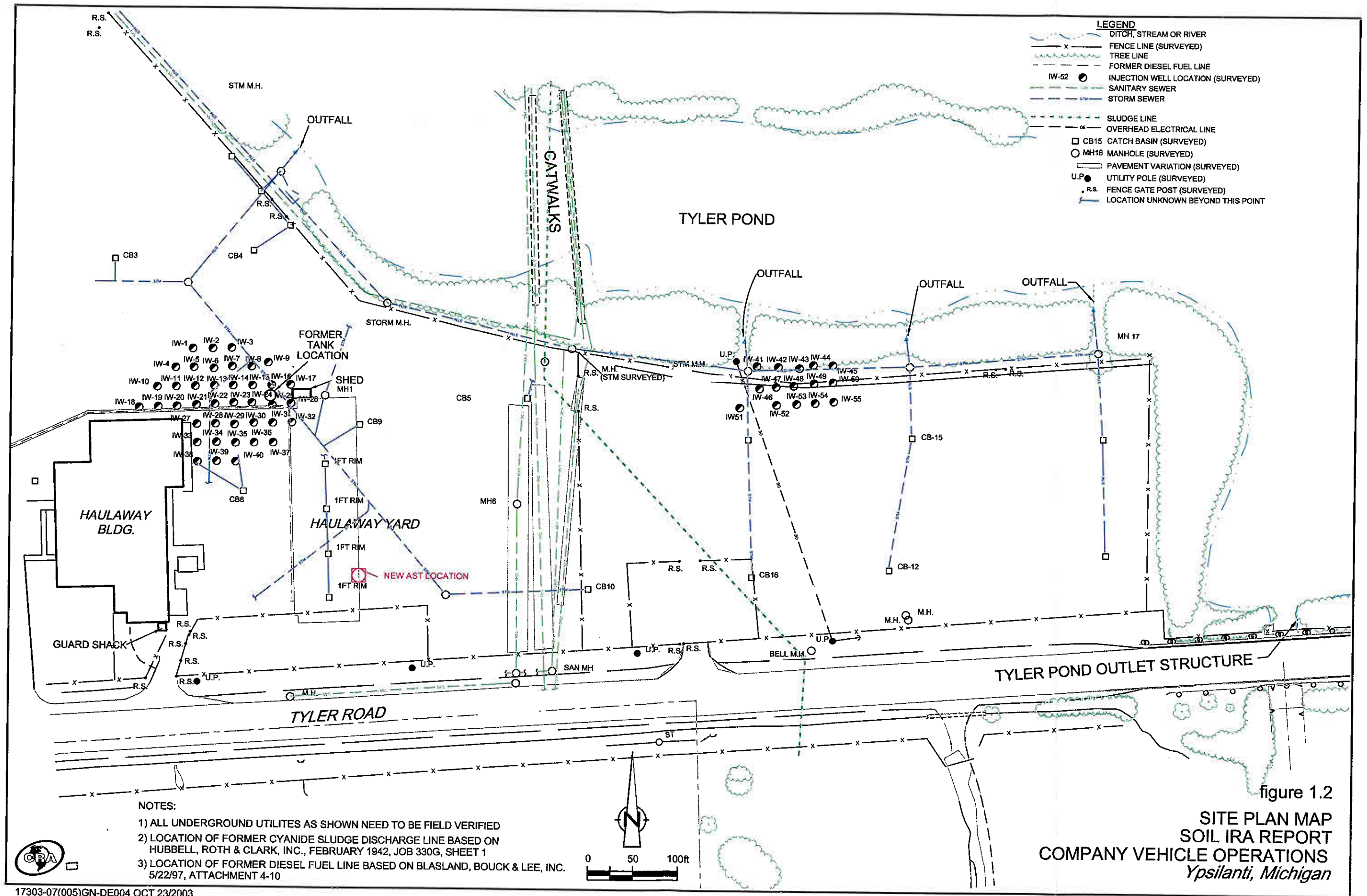
SOURCE: USGS QUADRANGLE MAP;
YPSILANTI EAST, MICHIGAN

figure 1.1



YPSILANTI

SITE LOCATION
COMPANY VEHICLE OPERATIONS AREA
Ypsilanti, Michigan



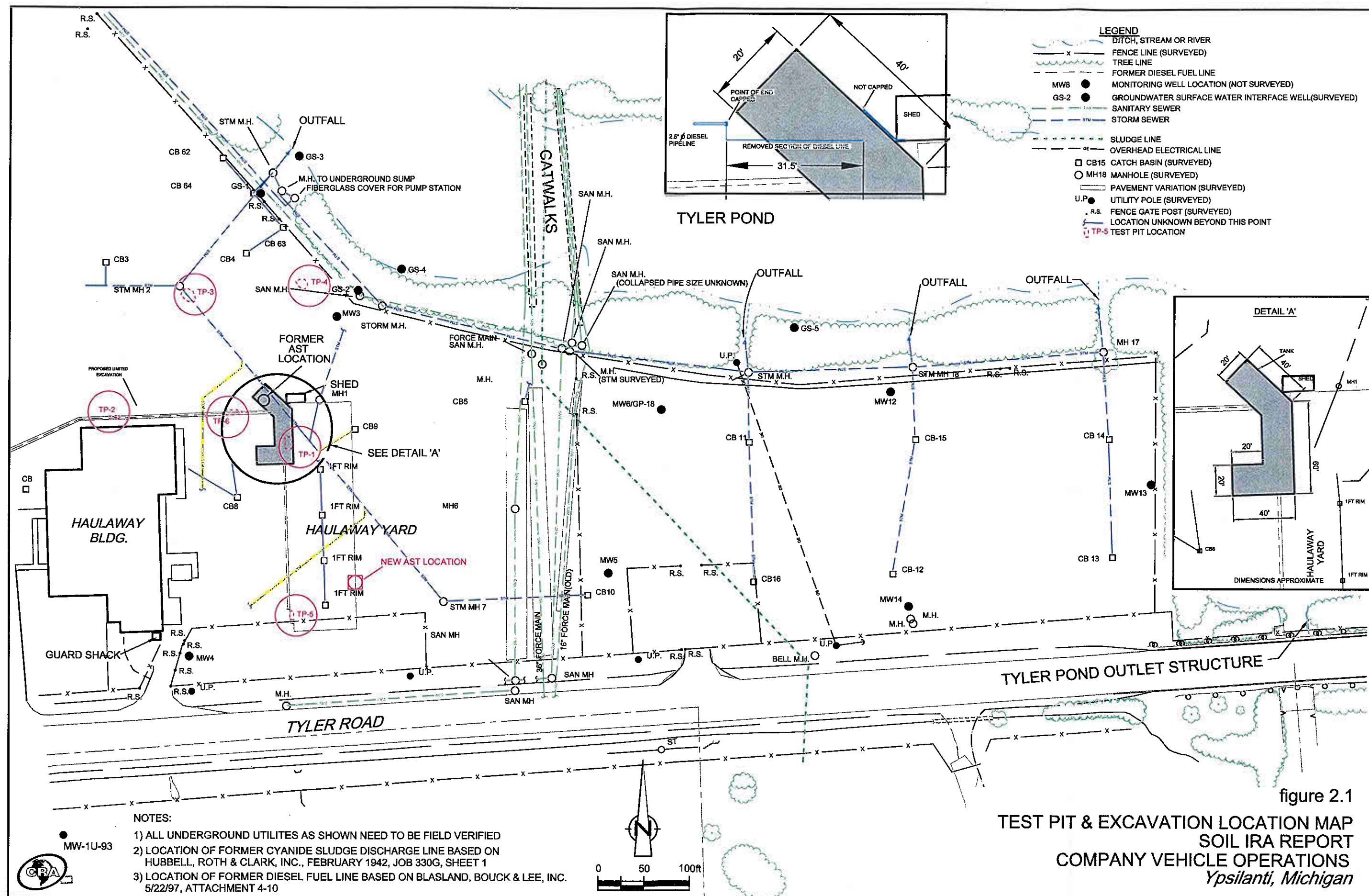


TABLE 2.1
TEST PIT ANALYTICAL RESULTS
FORMER WILLOW RUN ASSEMBLY PLANT - CVO AREA
YPSILANTI, MICHIGAN

Chemical	TCLP Regulatory Level (mg/L)	SO-17303-MA-060403- 197 TP-1 18" - 11'		SO-17303-MA-060403- 198 TP-1 11'		SO-17303-MA-060303- 194 TP-2		SO-17303-MA-060403- 196 TP-3	SO-17303-MA-060303- 193 TP-4		SO-17303-MA-060503-199 TP-5 11"		SO-17303-MA-060403- 195 TP-6	
		TCLP (mg/L)	Total (mg/Kg)	TCLP (mg/L)	Total (mg/Kg)	TCLP (mg/L)	Total (mg/Kg)	Total (mg/Kg)	TCLP (mg/L)	Total (mg/Kg)	TCLP (mg/L)	Total (mg/Kg)	TCLP (mg/L)	Total (mg/Kg)
Arsenic	5.00	--	1.8	--	0.61	--	3.05	1.81	--	9.46	--	6.23	--	4.56
Barium	100.00	--	7.79	--	4.83	--	28.5	15.9	--	823	--	2.61	--	223
Benzene	0.50	ND (0.05)	ND (0.054)	ND (0.05)	0.25	ND (0.05)	ND (0.055)	ND (0.064)	ND (0.05)	ND (0.06)	ND (0.05)	ND (0.055)	ND (0.05)	ND (0.057)
Cadmium	1.00	--	0.146	--	ND (0.065)	--	0.871	0.409	--	15.20	--	0.513	--	6.9
Carbon tetrachloride	0.50	ND (0.05)	ND (0.054)	ND (0.05)	ND (0.065)	ND (0.05)	ND (0.055)	ND (0.064)	ND (0.05)	ND (0.06)	ND (0.05)	ND (0.055)	ND (0.05)	ND 0.057)
Chlorobenzene	100.00	ND (0.05)	ND (0.054)	ND (0.05)	ND (0.065)	ND (0.05)	ND (0.055)	ND (0.064)	ND (0.05)	ND (0.06)	ND (0.05)	ND (0.055)	ND (0.05)	0.46
Chloroform	6.00	ND (0.05)	ND (0.054)	ND (0.05)	ND (0.065)	ND (0.05)	ND (0.055)	ND (0.064)	ND (0.05)	ND (0.06)	ND (0.05)	ND (0.055)	ND (0.05)	ND (0.057)
Chromium	5.00	--	16.5	--	8.98	--	35.4	27.2	--	226	--	7.7	--	56.1
1,4-Dichlorobenzene	7.50	--	ND (0.11)	--	ND (0.13)	--	ND (0.11)	ND (0.13)	--	ND (0.12)	--	ND (0.11)	--	0.32
1,2-Dichloroethane	0.50	ND (0.05)	ND (0.054)	ND (0.05)	ND (0.065)	ND (0.05)	ND (0.055)	ND (0.064)	ND (0.05)	ND (0.06)	ND (0.05)	ND (0.055)	ND (0.05)	ND (0.057)
1,1-Dichloroethylene	0.70	ND (0.05)	ND (0.054)	ND (0.05)	ND (0.065)	ND (0.05)	ND (0.055)	ND (0.064)	ND (0.05)	ND (.06)	ND (0.05)	ND (0.055)	ND (0.05)	ND (0.057)
2,4-Dinitrotoluene	¹ 0.13	--	ND (0.72)	--	ND (0.43)	--	ND (0.72)	ND (0.42)	--	ND (0.80)	--	ND (0.37)	--	ND(0.75)
Hexachlorobenzene	¹ 0.13	--	ND (0.72)	--	ND (0.43)	--	ND (0.72)	ND (0.42)	--	ND (0.80)	--	ND (0.37)	--	ND (0.75)
Hexachlorobutadiene	0.50	--	ND (0.72)	--	ND (0.43)	--	ND (0.72)	ND (0.42)	--	ND (0.80)	--	ND (0.37)	--	ND (0.75)
Hexachloroethane	3.00	--	ND (0.72)	--	ND (0.43)	--	ND (0.72)	ND (0.42)	--	ND (0.80)	--	ND (0.37)	--	ND (0.75)
Lead	5.00	--	5.16	--	1.7	--	969	15.1	--	12,000	--	1.31	--	58.1
Mercury	0.20	--	ND (0.11)	--	ND (0.13)	--	ND (0.11)	ND (0.13)	--	ND (0.12)	--	ND (0.11)	--	ND (0.11)
Methyl ethyl ketone	200.00	ND (0.20)	ND (0.81)	ND (0.20)	ND (0.97)	ND (0.20)	ND (0.82)	ND (0.96)	ND (0.20)	ND (0.90)	ND (0.20)	ND (0.83)	ND (0.20)	ND (.85)
Nitrobenzene	2.00	--	ND (0.43)	--	ND (0.26)	--	ND (0.44)	ND (0.26)	--	ND (0.48)	--	ND (0.22)	--	ND (0.46)
Pentrachlorophenol	100.00	--	ND (1.7)	--	ND (1.0)	--	ND (1.8)	ND (1.0)	--	ND (1.9)	--	ND (0.89)	--	ND (1.8)
Selenium	1.00	--	ND (0.22)	--	ND (0.26)	--	ND (0.22)	ND (0.26)	--	1.33	--	0.571	--	1.04
Silver	5.00	--	ND (0.54)	--	ND (0.65)	--	ND (0.55)	ND (0.64)	--	1.3	--	ND (0.55)	--	ND (0.57)
Tetrachloroethylene	0.70	ND (0.05)	ND (0.054)	ND (0.05)	ND (0.065)	ND (0.05)	ND (0.055)	ND (0.064)	ND (0.05)	ND (0.06)	ND (0.050)	ND (0.055)	ND (0.05)	ND (0.057)
Trichloroethylene	0.50	ND (0.05)	ND (0.054)	ND (0.05)	ND (0.065)	ND (0.05)	ND (0.055)	1.4	ND (0.05)	1.3	ND (0.050)	ND (0.055)	ND (0.05)	ND (0.057)
2,4,5-Trichlorophenol	400.00	--	ND (0.72)	--	ND (0.43)	--	ND (0.72)	ND (0.42)	--	ND (0.80)	--	ND (0.37)	--	ND (0.75)
2,4,6-Trichlorophenol	2.00	--	ND (0.72)	--	ND (0.43)	--	ND (0.72)	ND (0.42)	--	ND (0.80)	--	ND (0.37)	--	ND (0.75)
Vinyl Chloride	0.20	ND (0.10)	ND (0.11)	ND (0.10)	ND (0.13)	ND (0.10)	ND (0.11)	ND (0.13)	ND (0.10)	ND (0.12)	ND (0.10)	ND (0.11)	ND (0.10)	ND (0.11)
PCBs (total) ppm	--	--	ND (0.36)	--	ND (0.43)	--	1.6	ND (0.42)	--	ND (0.40)	--	ND (0.37)	--	0.47

NOTES

¹Quantitation limit is greater than the calculated regulatory level. The quantitation limit therefore becomes the regulatory level

ND() Constituent not detected at the reporting limit (in brackets).

APPENDIX A
STORM SEWER INTEGRITY TESTING REPORT



Inland Waters Pollution Control, Inc.
2021 South Schaefer Highway
Detroit, Michigan 48217
(313) 841-5800
(800) 992-9118
Fax: (313) 841-4155

LETTER OF TRANSMITTAL

DATE	MAY 17, 2003	JOB NO.	523-5800
ATTENTION	PETE ROMZICK		
RE:	VIDEO INSPECTION TAPE		
	CVO PROPERTY		
	GM WILLKIRK FACILITY		
	YPSILANTI, MI		

TO: CONESTOGA - ROVERS & ASSOC.
14496 SHELTON ROAD - SUITE 200
PLYMOUTH, MI 48170

WE ARE SENDING ☒ Attached ☐ Under separate cover via _____ the following items:

- ☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☒ VIDEO TAPE & LINE REPORT

COPIES	DATE	NO.	DESCRIPTION
1	MAY 1, 2003	829	1 EA VIDEO TAPE & LINE REPORT - CVO PROPERTY GM - YPSILANTI, MI

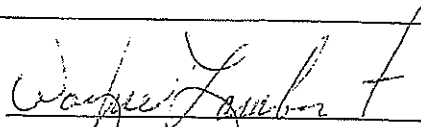
THESE ARE TRANSMITTED as checked below:

- ☐ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval
☒ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution
☒ As requested ☐ Returned for corrections ☐ Return _____ corrected prints
☐ For review and comment ☐ _____

☐ FOR BIDS DUE _____ 19 _____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS: ADDITIONAL SET (1 EA) WILL BE AVAILABLE ALONG WITH CD
VERSION BY 5-14-03.

COPY TO _____

SIGNED: 

Inland Waters Pollution Control, Inc.
2021 S. Schaefer Highway
Detroit, MI 48217
Tel: (800) 992-9118, Fax (313) 841-0082

PROJ INFO

PROJ NAME:
Willow Run C.V.O

PROJECT NUM:

RESPONSIBLE:

DATE:
05/01/2003

CLIENT GM
RESPONSIBLE:
DEPARTMENT:
PO BOX:
STREET:
CITY, ST ZIP:
TELEPHONE:
FAX:
MOBILE:
E-MAIL:

PROJ MGR
RESPONSIBLE:
DEPARTMENT:
PO BOX:
STREET:
CITY, ST ZIP:
TELEPHONE:
FAX:
MOBILE:
E-MAIL:

CONTRACTOR Inland Waters Pollution Control, Inc.
RESPONSIBLE:
DEPARTMENT: Pipe Rehabilitation
PO BOX: N/A
STREET: 2021 S. Schaefer Highway
CITY, ST ZIP: Detroit, MI 48217
TELEPHONE: (800) 992-9118
FAX: (313) 841-0082
MOBILE: (313)218-3334
E-MAIL: clintllewellyn@inlandwaters.com

INSPECTION REPORT

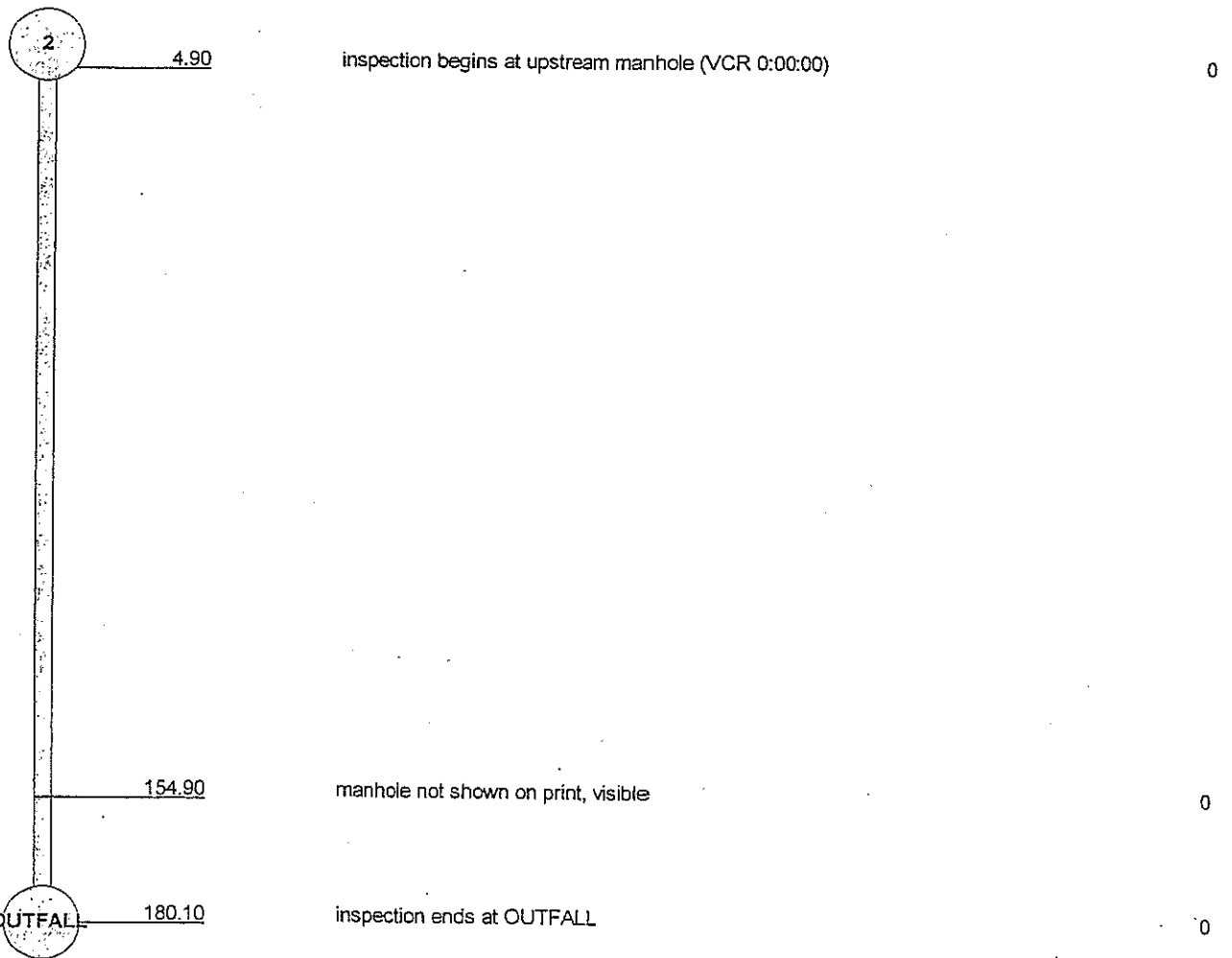
DATE: 05/01/2003	WORK ORDER:	WEATHER: SUNNY, DRY	OPERATOR: Jason Atwood	SECTION NR: 1	SECTION NAME: GM WILLOW RUN
PRESENT: PETE ROMZICK-CRA	VEHICLE: 55168	CAMERA: Basic Tractor Camer	PRESET: 5	CLEANED: NO	RATE: 0

STREET: GM-C.V.O.	MAP #1:	MH: 2
CITY: YPSILANTI, MI	MAP #2:	MH: OUTFALL
LOCALE: PARKING LOT	TAPE #: 829	TVD LGTH: 180.1 ft

INSPECT REASON: Pipeline Inspection	PIPE SIZE: 54"
SECTION TYPE: STORM	MATERIAL: CONCRETE JT LGTH:
AREA:	LINING:
	RSRVD:

REMARK:

1:450 DIST OBSERVATION PH RATE



Inland Waters Pollution Control, Inc.
2021 S. Schaefer Highway
Detroit, MI 48217
Tel: (800) 992-9118. Fax: (313) 841-0082

INSPECTION REPORT

DATE: 05/01/2003	WORK ORDER:	WEATHER: SUNNY, DRY	OPERATOR: Jason Atwood	SECTION NR: 2	SECTION NAME: GM-WILLOW RUN
PRESENT: PETE ROMZICK-CRA	VEHICLE: 55168	CAMERA: Basic Tractor Camer	PRESET: 5	CLEANED: NO	RATE: 850

STREET:	GM-C.V.O.	MAP #1:	MH:	2
CITY:	YPSILANTI, MI	MAP #2:	MH:	7
LOCALE:	PARKING LOT	TAPE #:	829	TVD LGTH: 119 ft

INSPECT REASON:	Pipeline Inspection	PIPE SIZE:	18"
SECTION TYPE:	STORM	MATERIAL:	CONCRETE JT LGTH:
AREA:		LINING:	
		RSRVD:	

REMARK:

1:300	DIST	OBSERVATION	PH	RATE
	4.90	inspection begins at downstream manhole (VCR 0:04:37)		0
	7.90	mineral deposits at joint, from 12 to 12 o'clock medium		2
	13.40	mineral deposits at joint, from 12 to 12 o'clock light		1
	31.90	mineral deposits at joint, from 12 to 12 o'clock medium		2
	118.40	protruding service connection, at 03 o'clock		2
	119.00	inspection abandoned DUE TO DEBRIS		0

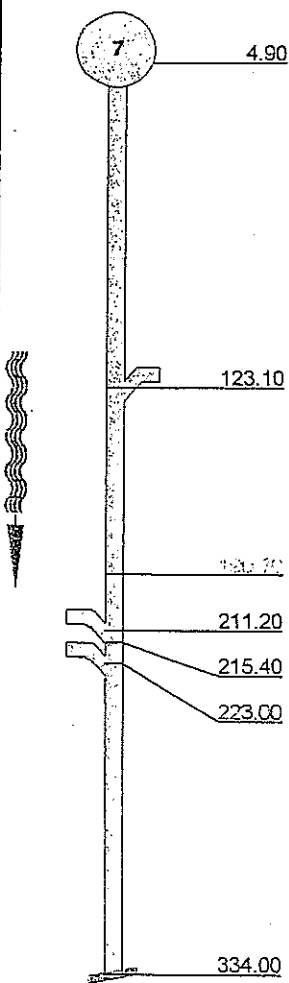
INSPECTION REPORT

DATE: 05/01/2003	WORK ORDER:	WEATHER: SUNNY, DRY	OPERATOR: Jason Atwood	SECTION NR: 3	SECTION NAME: GM-C.V.O.
PRESENT: PETE ROMZICK-CRA	VEHICLE: 55168	CAMERA: Basic Tractor Camer	PRESET: 5	CLEANED: NO	RATE: 260

STREET: GM-C.V.O.	MAP #1:	MH: 7
CITY: YPSILANTI, MI	MAP #2:	MH: 2
LOCALE: PARKING LOT	TAPE #: 829	TV'D LGTH: 334 ft

INSPECT REASON: Pipeline Inspection	PIPE SIZE: 18"
SECTION TYPE: STORM	MATERIAL: VCP JT LGTH:
AREA:	LINING:
	RSRVD:

REMARK:

1:825	DIST	OBSERVATION	PH	RATE
	4.90	inspection begins at upstream manhole, REVERSE INSPECTION (VCR 0:09:07)		0
	123.10	service connection, at 09 o'clock		0
	123.70	hole in pipe at 10 o'clock		0
	211.20	service connection, at 03 o'clock		0
	215.40	pipe material changes at this point to CONCRETE		0
	223.00	protruding service connection, at 03 o'clock		2
	334.00	inspection abandoned COMPLETED REVERSE		0

GM

Inland Waters Pollution Control, Inc.
2021 S. Schaefer Highway
Detroit, MI 48217
Tel: (800) 992-9118, Fax (313) 841-0082

INSPECTION REPORT

DATE: 05/01/2003	WORK ORDER:	WEATHER: SUNNY, DRY	OPERATOR: Jason Atwood	SECTION NR: 4	SECTION NAME: GM-WILLOW RUN
PRESENT: PETE ROMZICK-CRA	VEHICLE: 55168	CAMERA: Basic Tractor Camer	PRESET: 5	CLEANED: NO	RATE: 0

STREET: GM-C.V.O.	MAP #1:	MH: 11
CITY: YPSILANTI, MI	MAP #2:	MH: No #MH
LOCALE: PARKING LOT	TAPE #: 829	TVD LGTH: 75 ft

INSPECT REASON: Pipeline Inspection	PIPE SIZE: 15"
SECTION TYPE: STORM	MATERIAL: VCP JT LGTH:
AREA:	LINING:
	RSRVD:

REMARK:

1:200 DIST OBSERVATION PH RATE



4.90

inspection begins at upstream manhole (VCR 0:18:53)

0



75.00

inspection ends at downstream manhole (with outfall beyond)

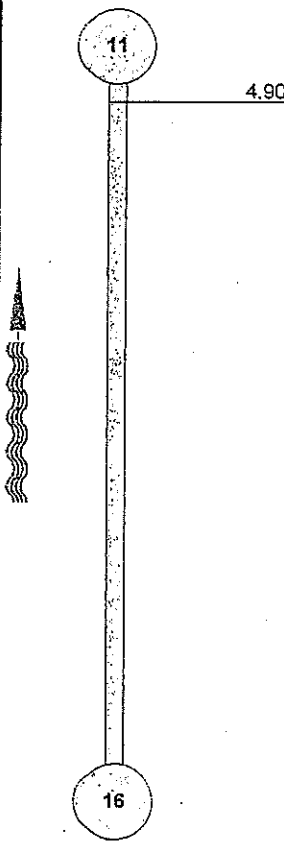
0

Inland Waters Pollution Control, Inc.
2021 S. Schaefer Highway
Detroit, MI 48217
Tel: (800) 992-9118, Fax: (313) 841-0082

INSPECTION REPORT

DATE: 05/01/2003	WORK ORDER:	WEATHER: SUNNY, DRY	OPERATOR: Jason Atwood	SECTION NR: 5	SECTION NAME: GM-WILLOW RUN
PRESENT: PETE ROMZICK-CRA	VEHICLE: 55168	CAMERA: Basic Tractor Camer	PRESET: 5	CLEANED: NO	RATE: 0

STREET: GM-C.V.O.	MAP #1:	MH: 11
CITY: YPSILANTI, MI	MAP #2:	MH: 16
LOCALE: PARKING LOT	TAPE #: 829	TVD LGTH: 66.3 ft
INSPECT REASON: Pipeline Inspection	PIPE SIZE: 12"	
SECTION TYPE: STORM	MATERIAL: VCP JT LGTH:	
AREA:	LINING:	
	RSRVD:	
REMARK:		

1:200	DIST	OBSERVATION	PH	RATE
		inspection begins at downstream manhole (VCR 0:20:23)		0

GM

Inland Waters Pollution Control, Inc.
 2021 S. Schaefer Highway
 Detroit, MI 48217
 Tel: (800) 992-9118, Fax: (313) 841-0082

INSPECTION REPORT

DATE: 05/01/2003	WORK ORDER:	WEATHER: SUNNY, DRY	OPERATOR: Jason Atwood	SECTION NR: 6	SECTION NAME: GM-WILLOW RUN
PRESENT: PETE ROMZICK-CRA	VEHICLE: 55168	CAMERA: Basic Tractor Camer	PRESET: 5	CLEANED: NO	RATE: 0

STREET: GM-C.V.O.	MAP #1:	MH: 15
CITY: YPSILANTI, MI	MAP #2:	MH: No #MH
LOCALE: PARKING LOT	TAPE #: 829	TVD LGTH: 77.7 ft

INSPECT REASON: Pipeline Inspection	PIPE SIZE: 15"
SECTION TYPE: STORM	MATERIAL: VCP JT LGTH:
AREA:	LINING:
	RSRVD:

REMARK:

1:200 DIST OBSERVATION PH RATE

15

4.90

inspection begins at upstream manhole (VCR 0:23:13)

0

No #MH

77.70

inspection ends at downstream manhole (with outfall beyond)

0

INSPECTION REPORT

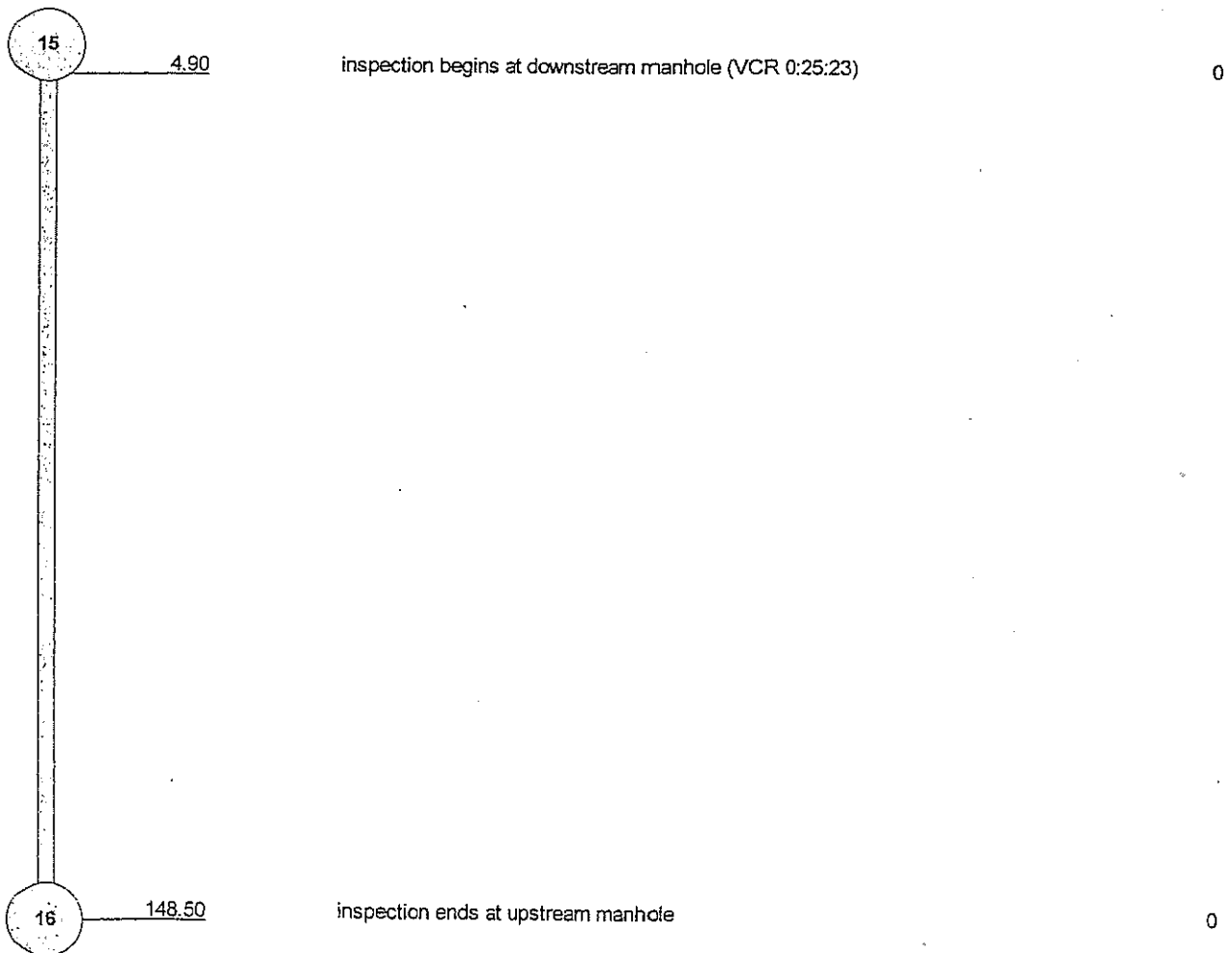
DATE: 05/01/2003	WORK ORDER:	WEATHER: SUNNY, DRY	OPERATOR: Jason Atwood	SECTION NR: 7	SECTION NAME: GM-WILLOW RUN
PRESENT: PETE ROMZICK-CRA	VEHICLE: 55168	CAMERA: Basic Tractor Camer	PRESET: 5	CLEANED: NO	RATE: 0

STREET: GM-C.V.O.	MAP #1:	MH: 15
CITY: YPSILANTI, MI	MAP #2:	MH: 16
LOCALE: PARKING LOT	TAPE #: 829	TVD LGTH: 148.5 ft

INSPECT REASON: Pipeline Inspection	PIPE SIZE: 12"
SECTION TYPE: STORM	MATERIAL: VCP JT LGTH:
AREA:	LINING:
	RSRVD:

REMARK:

1:375 DIST OBSERVATION PH RATE



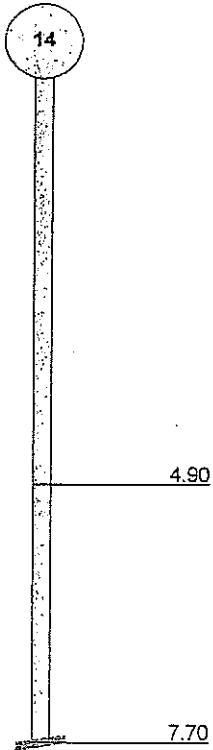
INSPECTION REPORT

DATE: 05/01/2003	WORK ORDER:	WEATHER: SUNNY, DRY	OPERATOR: Jason Atwood	SECTION NR: 8	SECTION NAME: GM WILLOW RUN
PRESENT: PETE ROMZICK-CRA	VEHICLE: 55168	CAMERA: Basic Tractor Camer	PRESET: 5	CLEANED: NO	RATE: 0

STREET: GM-C.V.O.	MAP #1:	MH: 14
CITY: YPSILANTI, MI	MAP #2:	MH: OUTFALL
LOCALE: PARKING LOT	TAPE #: 829	TV'D LGTH: 7.7 ft

INSPECT REASON: Pipeline Inspection	PIPE SIZE: 15"
SECTION TYPE: STORM	MATERIAL: VCP JT LGTH:
AREA:	LINING:
	RSRVD:

REMARK:

1:25	DIST	OBSERVATION	PH	RATE
		inspection begins at upstream manhole (VCR 0:29:08)		0
		inspection abandoned DUE TO DEBRIS		0

INSPECTION REPORT

DATE: 05/01/2003	WORK ORDER:	WEATHER: SUNNY, DRY	OPERATOR: Jason Atwood	SECTION NR: 9	SECTION NAME: GM WILLOW RUN
PRESENT: PETE ROMZICK-CRA	VEHICLE: 55168	CAMERA: Basic Tractor Camer	PRESET: 5	CLEANED: NO	RATE: 0

STREET: GM-C.V.O.	MAP #1:	MH: 14
CITY: YPSILANTI, MI	MAP #2:	MH: 13
LOCALE: PARKING LOT	TAPE #: 829	TVD LGTH: 129.4 ft

INSPECT REASON: Pipeline Inspection	PIPE SIZE: 12"
SECTION TYPE: STORM	MATERIAL: VCP JT LGTH:
AREA:	LINING:
	RSRVD:

REMARK:

1:325	DIST	OBSERVATION	PH	RATE
14	4.90	inspection begins at downstream manhole (VCR 0:29:51)		0
13	129.40	inspection ends at upstream manhole		0

GM

Inland Waters Pollution Control, Inc.
 2021 S. Schaefer Highway
 Detroit, MI 48217
 Tel: (800) 992-9118, Fax: (313) 841-0082

INSPECTION REPORT

DATE: 05/01/2003	WORK ORDER:	WEATHER: SUNNY, DRY	OPERATOR: Jason Atwood	SECTION NR: 10	SECTION NAME: GM WILLOW RUN
PRESENT: PETE ROMZICK-CRA	VEHICLE: 55168	CAMERA: Basic Tractor Camer	PRESET: 5	CLEANED: NO	RATE: 0

STREET: GM-C.V.O.	MAP #1:	MH: 14
CITY: YPSILANTI, MI	MAP #2:	MH: No #MH
LOCALE: PARKING LOT	TAPE #: 829	TVD LGTH: 96 ft

INSPECT REASON: Pipeline inspection	PIPE SIZE: 15"
SECTION TYPE: STORM	MATERIAL: VCP JT LGTH:
AREA:	RSRVD:

REMARK:

1:250	DIST	OBSERVATION	PH	RATE
		inspection begins at upstream manhole (VCR 0:33:06)		0
		inspection ends at downstream manhole (with outfall beyond)		0

APPENDIX B
GPR STUDY REPORT



CONESTOGA-ROVERS & ASSOCIATES
651 Colby Drive
Waterloo, Ontario, Canada N2V 1C2

TELEPHONE: (519) 884-0510 (Colby Office)
(519) 725-3313 (Bathurst Office)
FACSIMILE: (519) 884-0525

MEMORANDUM

TO:	Sube Velmurugesan	REF. NO.:	17303-02
FROM:	Joe Rothfischer	DATE:	May 30, 2003
C.C.:	Peter Romzick	REVISED:	August 11, 2003
RE:	Ground Penetrating Radar Investigation, GM Willow Run, MI.		

1.0 INTRODUCTION

A geophysical investigation was conducted by Conestoga-Rovers & Associates (CRA) at the Former GM Willow Run Facility (Site) near Ypsilanti Michigan, between May 6 and 8, 2003. The purpose of the investigation was to determine the presence of a suspected former diesel line at the Site, to survey a known sinkhole and delineate its extent, and to determine the alignment of any utilities extending southward towards Tyler Road and beyond the Site boundary. Based on the geophysical results, a test pitting program is recommended.

The CRA geophysical investigation was conducted using a Ground Penetrating Radar (GPR) system. Ground Penetrating Radar (GPR) utilizes high frequency (mHz range) electromagnetic (EM) signals to investigate subsurface conditions. Pulsed EM waves emitted from a transmitting antenna are propagated into the ground, and travel at velocities determined by the electrical properties of earth materials. If a wave hits a buried object or boundary with different electrical properties as it moves downward, part of the wave energy is reflected back to the surface and is detected by a receiving antenna. The reflected wave is stored digitally, and processed as a trace of signal versus amplitude. As the antennas are moved along a survey line, a series of traces are recorded at discrete points. When presented collectively, these traces display a profile of the subsurface. GPR surveys are an effective non-intrusive method of examining subsurface conditions, particularly beneath reinforced concrete floors or pads typically found in industrial settings. Whereas metal detectors such as the EM31 and EM61 generally yield a saturated response over reinforced concrete, GPR signals can easily penetrate through the concrete and into the underlying soils.

2.0 GEOPHYSICAL SURVEY GRID SET UP

Prior to commencement of the GPR survey, location grids were established over the areas of investigation. The grids consisted of survey lines typically spaced 10 feet apart, with orientations perpendicular to the suspected trend of the target being investigated. The survey grids were tied into physical features at the Site, including buildings, fences, and utility poles.

3.0 GEOPHYSICAL SURVEY RESULTS

The GPR data collected during survey were processed as trace plots for each area of investigation, and have been superimposed on detailed Site Plan figures. The GPR results for the diesel lines are presented on

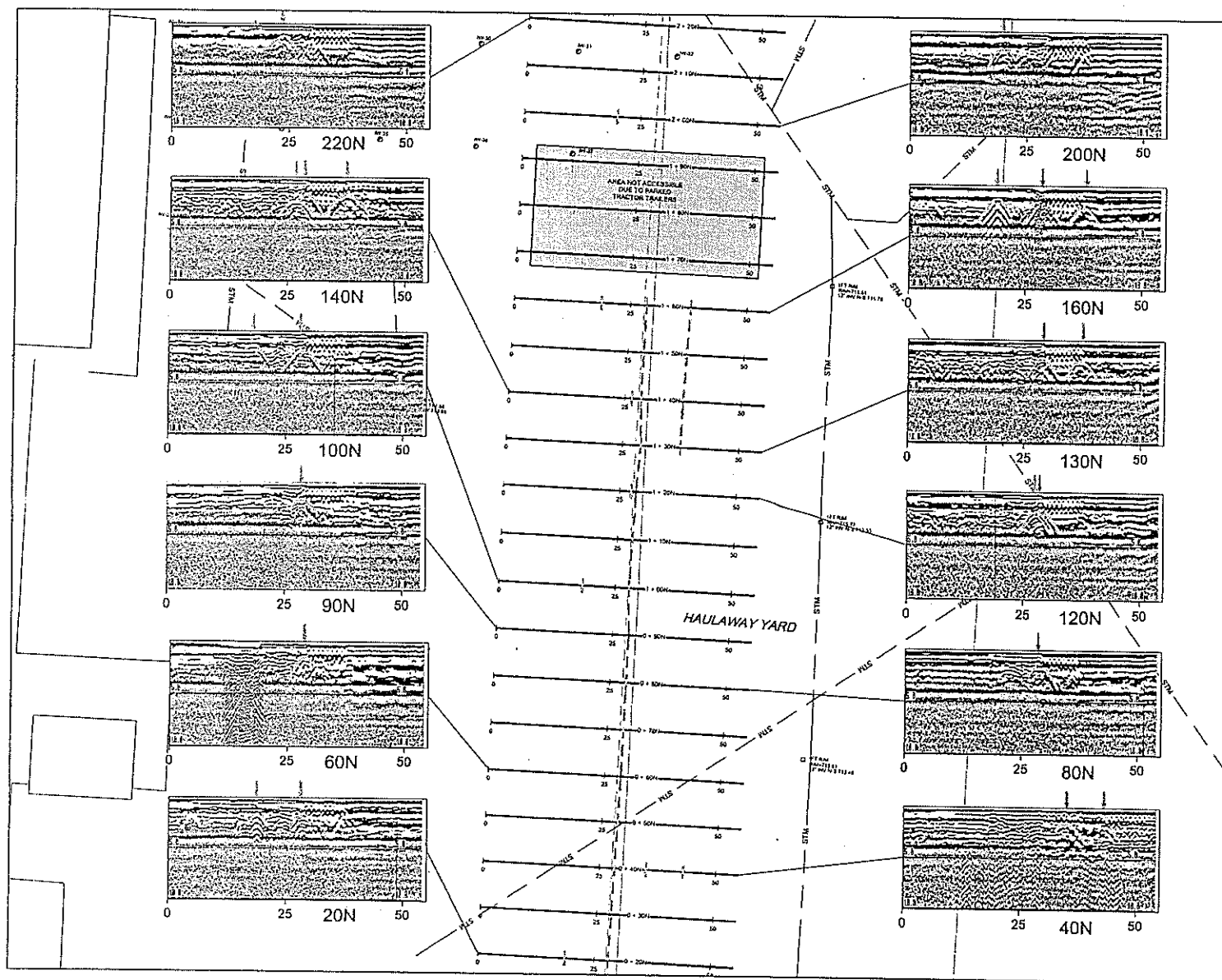
Plans 1 and 2, the sinkhole results are presented on Plan 3, and the survey results along Tyler Road are presented on Plan 4.

Review of Plan 1 indicates that a strong GPR reflector (colored orange) indicative of a buried utility was delineated along the north end of the existing (car wash) building. The buried utility appeared to be located beneath an approximately 3-foot wide reinforced concrete slab. This reflector was continuous, and extended 180 feet further to the east, near the vicinity of the existing fuel tank. Other reflectors of limited extent (colored green) were also delineated in this area, just west of the tank. The GPR signals over this portion of the Site yielded a depth of penetration of approximately 5 feet, which indicates that the sub-base beyond this depth is extremely conductive.

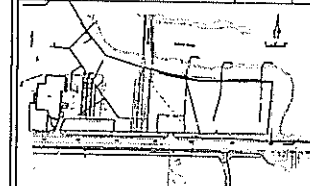
The GPR results presented on Plan 2 indicate that a suspected utility line was delineated over the southern portion of the surveyed area, and that no reflectors were found in the vicinity immediately south of the existing fuel tank. The GPR reflector over this area of the Site appeared to be coincident with a boundary between asphalt and concrete observed as the survey was being conducted. The radar signal depth of penetration was similar to that observed over the other suspected diesel line, namely approximately 5 feet.

The survey results for the suspected sinkhole presented in Plan 3 indicates that 5-foot grid line spacings were utilized in this area of investigation. The sinkhole was detected along only one line of survey (225 N), which indicates that this feature is of limited extent and depth.

The GPR survey results along Tyler Road are presented in Plan 4, and indicate that the depth of penetration for the GPR signals in this area was approximately 10 to 12 feet. This can be attributed to the sandy soils beneath this area of investigation, which do not attenuate GPR signals. The results presented on Plan 4 indicate that four GPR reflectors were delineated over this area of the Site. Two reflectors appear to be in alignment with 2 manholes in the vicinity, while the remaining two reflectors do not. It is recommended these suspected utility lines be further investigated, to assess their potential as migration pathways from the Site.



Revision	Date	By



LEGEND

- OPEN REFLECTOR INDICATIVE OF SUSPECTED FORMER DIESEL LINE
- OPEN REFLECTOR INDICATIVE OF BARRIERS

DRAFT

SCALE VERIFICATION

SEE MAP MEASURES FOR DIMENSIONS. ADJUST SCALE ACCORDINGLY.

DRAWING STATUS

Author	Check	Draw	Head

GM POWERTRAIN FACILITY
Ypsilanti, Michigan

FORMER WILLOW RUN ASSEMBLY PLANT

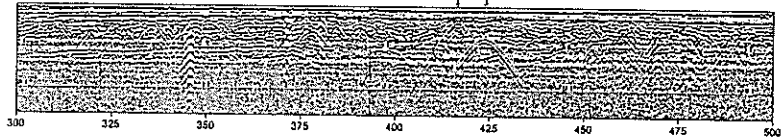
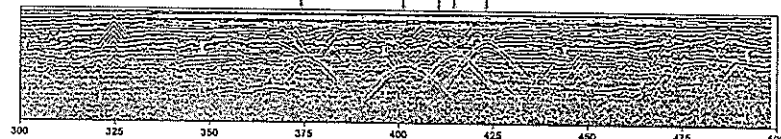
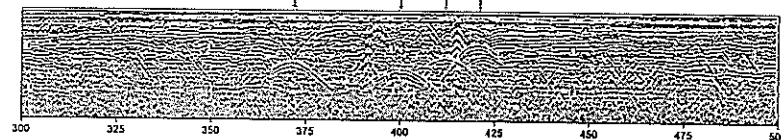
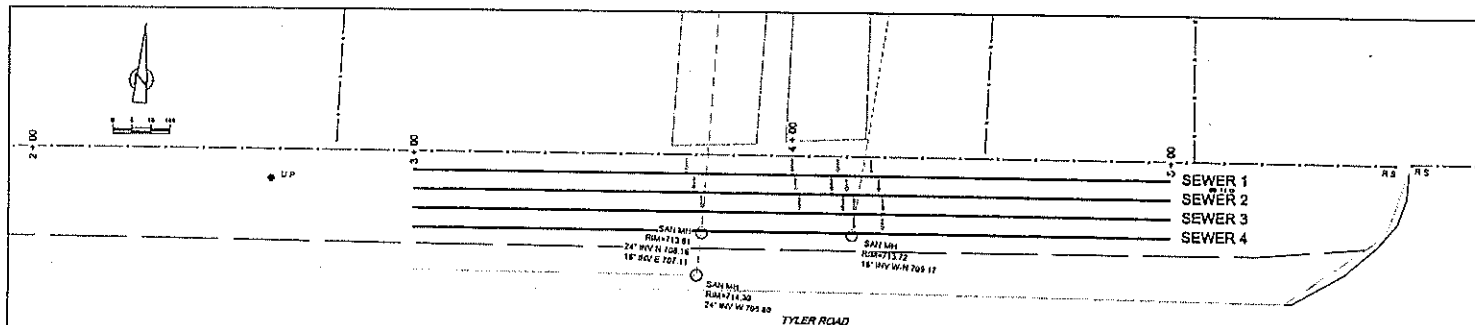
GPR SURVEY - SHEET 2 OF 2
SUSPECTED FORMER DIESEL LINE



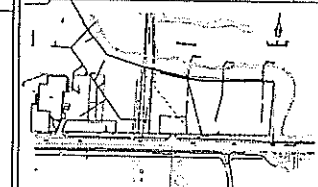
CONESTOGA-HOVNER & ASSOCIATES

Project Manager	Reviewed By	Date

17303-02 PRES001 4



Rev	Description	Date	By



LEGEND

GPS REFLECTOR INDICATIVE OF ALTIMETER

GPS REFLECTOR INDICATIVE OF MARKED UTILITY

DRAFT

SCALE VERIFICATION

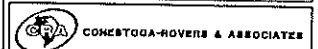
1" = 40' HORIZONTAL, 1" = 4' VERTICAL

APPROVED		
DRAWING STATUS		

GM POWERTRAIN FACILITY
Ypsilanti, Michigan

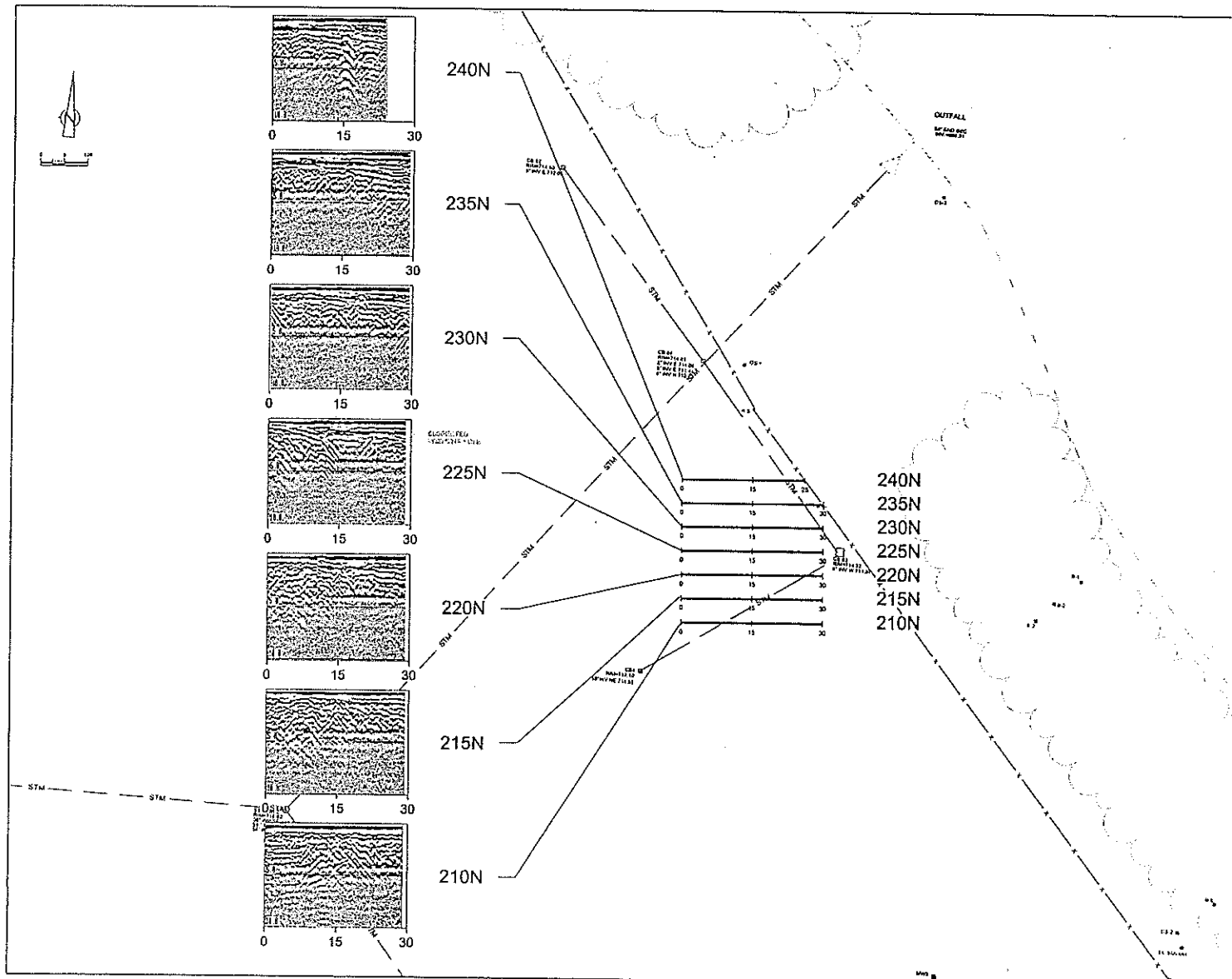
FORMER WILLOW RUN ASSEMBLY PLANT

GPR SURVEY
SUSPECTED FORMER SEWER LINES

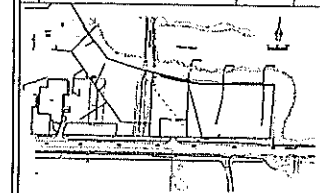


Project Information			
Project Manager	Reviewed By	Date	
Scale	Project No.	Sheet No.	Sheet Count
1" = 40'	17303-02	PRES001	8

17303-02 PRELIMINARY DRAWING NO. 10000



Revision	Date	By



DRAFT

SCALE VERIFICATION

THIS DRAWING IS A COPY OF THE ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved	

DRAWING STATUS

GM POWERTRAIN FACILITY
Ypsilanti, Michigan

FORMER WILLOW RUN ASSEMBLY PLANT

GPR SURVEY - SUSPECTED SINK HOLE
(APPROXIMATE LOCATION)



CONESTOGA-ROVERS & ASSOCIATES

Project Manager	Reviewed By	Date	

17393-02 PRES001 1

APPENDIX C
LABORATORY ANALYTICAL REPORTS



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conestoga-Rovers & Associates, Inc.

Certificate of Analysis Number:

03060278

Report To:

Conestoga-Rovers & Associates, Inc.
Paul Wiseman
14496 Sheldon Rd.
Suite 200
Plymouth
MI
48170-
ph: (734) 453-5123 fax:

Project Name: #17303 CVO Property

Site: #17303 CVO Property

Site Address:

PO Number: 40-0017478

State: Michigan

State Cert. No.:

Date Reported: 7/11/03

This Report Contains A Total Of 33 Pages

Excluding This Page

And

Chain Of Custody

ORIGINAL ANALYTICAL REPORT

Project#: 17303 Lab#: 03060278

Name: CVO

Description

Event: _____

Samples: 1 SOIL

Analysis: VOC, SVOC,
MTLS

TAT: 14 day

Lab: SPL

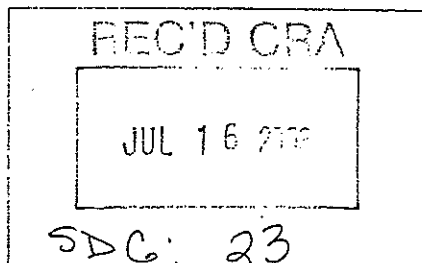
Checked Against Preliminary Data:

Date: _____ Init.: _____

Date of Validation Memo: _____

Invoice Approval Date: _____

Comments: _____



Sonia West
Sonia West
Project Manager

7/11/03

Date



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Case Narrative for:
Conestoga-Rovers & Associates, Inc.

Certificate of Analysis Number:

03060278

Report To: Conestoga-Rovers & Associates, Inc. Paul Wiseman 14496 Sheldon Rd. Suite 200 Plymouth MI 48170- ph: (734) 453-5123 fax:	Project Name: #17303 CVO Property Site: #17303 CVO Property Site Address: PO Number: 40-0017478 State: Michigan State Cert. No.: Date Reported: 7/11/03
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Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Your sample ID "SO-17303-MA-060503-199" (SPL ID: 03060278-01) was randomly selected for use in SPL's quality control program for the Total Metals analysis by SW846 Method 6010B. The MS and MSD recoveries were outside of the advisable quality control limits for Barium and Copper (Batch ID: 29141) due to matrix interference. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

Your sample ID "SO-17303-MA-060503-199" (SPL ID: 03060278-01) was randomly selected for use in SPL's quality control program for the Total Metals analysis by SW846 Method 6010B. The MS and/or MSD recoveries were outside of the advisable quality control limits for Silver (Batch ID: 29141B-T) due to matrix interference. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

Your sample ID "SO-17303-MA-060503-199" (SPL ID: 03060278-01) was randomly selected for use in SPL's quality control program for the Total Metals analysis by SW846 Method 6010B. The MS and/or MSD recoveries were outside of the advisable quality control limits for Sodium (Batch ID: 29141C) due to matrix interference. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

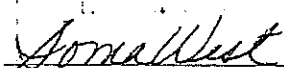
Your sample ID "SO-17303-MA-060503-199" (SPL ID: 03060278-01) was randomly selected for use in SPL's quality control program for the Total Metals analysis by SW846 Method 6010B. The MS and/or MSD recoveries were outside of the advisable quality control limits for Arsenic and Selenium (Batch ID: 29533) due to matrix interference. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.


Sonia West

Senior Project Manager

03060278 Page 1

7/11/03

Date



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conestoga-Rovers & Associates, Inc.

Certificate of Analysis Number:

03060278

Report To: Conestoga-Rovers & Associates, Inc.

Paul Wiseman
14496 Sheldon Rd.
Suite 200
Plymouth
MI
48170-
ph: (734) 453-5123 fax: (734) 453-5201

Project Name: #17303 CVO Property

Site: #17303 CVO Property

Site Address:

PO Number: 40-0017478

State: Michigan

State Cert. No.:

Date Reported: 7/11/03

To:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
7303-MA-060503-199	03060278-01	Soil	6/5/03 8:10:00 AM	6/5/03 9:30:00 AM	21007	☐
0-17303-MA-060503-199	03060278-01	Soil	6/5/03 8:10:00 AM	6/6/03 9:30:00 AM	21007	☐

Joel Grice
Joel Grice

7/11/03

Date

Senior Project Manager

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Method Summary

Conestoga-Rovers & Associates, Inc.

03060278

Client Sample ID	Lab Sample ID	Test Name	Test Number
SO-17303-MA-060503-199	03060278-01		
		Acid Digestion-Solid, ICP Metals	SW3050B
		Acid Digestion-Solid, ICP Metals	SW3050B
		Mercury, Total	SW7471A
		Mercury, Total	SW7471A
		Mercury, Total - Digestion	SW7471A
		Mercury, Total - Digestion	SW7471A
		Metals by Method 6010B, Total	SW6010B
		Metals by Method 6010B, Total	SW6010B
		Metals by Method 6020, Total	SW6020
		Metals by Method 6020, Total	SW6020
		Method 5035-Michigan	SW5035
		Method 5035-Michigan	SW5035
		PERCENT MOISTURE	D2216
		PERCENT MOISTURE	D2216
		Polychlorinated Biphenyls by Method 8082	SW8082
		Polychlorinated Biphenyls by Method 8082	SW8082
		Semivolatile Organics by Method 8270C	SW8270C
		Semivolatile Organics by Method 8270C	SW8270C
		Sonication Extraction - GC/MS SVOA	SW3550B
		Sonication Extraction - GC/MS SVOA	SW3550B
		Sonication Extraction - PCBs	SW3550B
		Sonication Extraction - PCBs	SW3550B
		TCLP Extraction - GC/MS VOA	SW1311
		TCLP Extraction - GC/MS VOA	SW1311
		TCLP Volatile Organics	SW8260B
		TCLP Volatile Organics	SW8260B
		Volatile Organics by Method 8260B	SW8260B

7/11/03

Date

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7/11/03 2:35:45 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Method Summary

Conestoga-Rovers & Associates, Inc.

03060278

Client Sample ID	Lab Sample ID	Test Name	Test Number
		Volatile Organics by Method 8260B	SW8260B

7/11/03

Date



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SO-17303-MA-060503-199

Collected: 06/05/2003 8:10

SPL Sample ID: 03060278-01

Site: #17303 CVO Property

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
POLYCHLORINATED BIPHENYLS BY METHOD 8082		MCL	SW8082	Units: ug/Kg-dry			
Aroclor 1016	ND	370	10		06/11/03 20:22	AR	1716333
Aroclor 1221	ND	370	10		06/11/03 20:22	AR	1716333
Aroclor 1232	ND	370	10		06/11/03 20:22	AR	1716333
Aroclor 1242	ND	370	10		06/11/03 20:22	AR	1716333
Aroclor 1248	ND	370	10		06/11/03 20:22	AR	1716333
Aroclor 1254	ND	370	10		06/11/03 20:22	AR	1716333
Aroclor 1260	ND	370	10		06/11/03 20:22	AR	1716333
Surr: Tetrachloro-m-xylene	76.9	% 40-130	10		06/11/03 20:22	AR	1716333
Surr: Decachlorobiphenyl	84.2	% 26-161	10		06/11/03 20:22	AR	1716333

Prep Method	Prep Date	Prep Initials
SW3550B	06/09/2003 12:41	HH

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
J - Estimated Value between MDL and PQL
E - Concentrations exceeding Calibration range of Instrument



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SO-17303-MA-060503-199 Collected: 06/05/2003 8:10 SPL Sample ID: 03060278-01

Site: #17303 CVO Property

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
MERCURY, TOTAL			MCL	SW7471A	Units: mg/Kg-dry		
Mercury	ND	0.11	1		06/13/03 14:30	R_T	1718154

Prep Method	Prep Date	Prep Initials
SW7471A	06/13/2003 10:20	R_T

METALS BY METHOD 6010B, TOTAL			MCL	SW6010B	Units: mg/Kg-dry		
Antimony	3.25	0.55	1		06/12/03 7:29	NS	1716385
Chromium	7.7	0.55	1		06/12/03 7:29	NS	1716385
Cobalt	1.25	0.55	1		06/12/03 7:29	NS	1716385
Lead	1.31	1.1	1		06/12/03 7:29	NS	1716385
Manganese	68.7	1.1	1		06/12/03 7:29	NS	1716385
Nickel	3.31	1.1	1		06/12/03 7:29	NS	1716385
Silver	ND	0.55	1		06/12/03 20:05	NS	1717562
Thallium	1.67	0.55	1		06/12/03 7:29	NS	1716385
Zinc	8.81	1.1	1		06/12/03 7:29	NS	1716385
Aluminum	1040	11	1		06/24/03 11:06	MW	1735700
Barium	2.61	1.1	1		06/15/03 7:21	EG	1720713
Calcium	37600	11	1		06/18/03 14:22	MW	1728443
Copper	2.19	1.1	1		06/15/03 7:21	EG	1720713
Iron	2240	2.2	1		06/15/03 7:21	EG	1720713
Magnesium	5970	11	1		06/24/03 11:06	MW	1735700
Potassium	ND	220	1		06/24/03 11:06	MW	1735700
Sodium	102	55	1		06/24/03 11:06	MW	1735700
Vanadium	3.49	1.1	1		06/15/03 7:21	EG	1720713

Prep Method	Prep Date	Prep Initials
SW3050B	06/10/2003 12:20	MED

METALS BY METHOD 6020, TOTAL			MCL	SW6020	Units: mg/Kg-dry		
Arsenic	6.23	0.11	1		06/23/03 16:05	EG	1735153
Beryllium	ND	0.22	1		06/23/03 16:05	EG	1735153
Cadmium	0.513	0.055	1		06/23/03 16:05	EG	1735153
Selenium	0.571	0.22	1		06/23/03 16:05	EG	1735153

Prep Method	Prep Date	Prep Initials
SW3050B	06/21/2003 12:45	SE

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
J - Estimated Value between MDL and PQL
E - Concentrations exceeding Calibration range of Instrument



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SO-17303-MA-060503-199

Collected: 06/05/2003 8:10

SPL Sample ID: 03060278-01

Site: #17303 CVO Property

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C		MCL	SW8270C	Units: ug/Kg-dry			
2,4,5-Trichlorophenol	ND	370	1		06/17/03 19:33	S_G	1726995
2,4,6-Trichlorophenol	ND	370	1		06/17/03 19:33	S_G	1726995
2,4-Dichlorophenol	ND	370	1		06/17/03 19:33	S_G	1726995
2,4-Dimethylphenol	ND	370	1		06/17/03 19:33	S_G	1726995
2,4-Dinitrophenol	ND	1900	1		06/17/03 19:33	S_G	1726995
2,4-Dinitrotoluene	ND	370	1		06/17/03 19:33	S_G	1726995
2,6-Dinitrotoluene	ND	370	1		06/17/03 19:33	S_G	1726995
2-Chloronaphthalene	ND	370	1		06/17/03 19:33	S_G	1726995
2-Chlorophenol	ND	370	1		06/17/03 19:33	S_G	1726995
2-Methylnaphthalene	ND	370	1		06/17/03 19:33	S_G	1726995
2-Nitroaniline	ND	1900	1		06/17/03 19:33	S_G	1726995
2-Nitrophenol	ND	370	1		06/17/03 19:33	S_G	1726995
3,3'-Dichlorobenzidine	ND	2200	1		06/17/03 19:33	S_G	1726995
3-Nitroaniline	ND	1900	1		06/17/03 19:33	S_G	1726995
4,6-Dinitro-2-methylphenol	ND	1900	1		06/17/03 19:33	S_G	1726995
4-Bromophenyl phenyl ether	ND	370	1		06/17/03 19:33	S_G	1726995
4-Chloro-3-methylphenol	ND	370	1		06/17/03 19:33	S_G	1726995
4-Chloroaniline	ND	1900	1		06/17/03 19:33	S_G	1726995
4-Chlorophenyl phenyl ether	ND	370	1		06/17/03 19:33	S_G	1726995
4-Nitroaniline	ND	1900	1		06/17/03 19:33	S_G	1726995
4-Nitrophenol	ND	1900	1		06/17/03 19:33	S_G	1726995
Acenaphthene	ND	370	1		06/17/03 19:33	S_G	1726995
Acenaphthylene	ND	370	1		06/17/03 19:33	S_G	1726995
Acetophenone	ND	370	1		06/17/03 19:33	S_G	1726995
Anthracene	ND	370	1		06/17/03 19:33	S_G	1726995
Atrazine	ND	170	1		06/17/03 19:33	S_G	1726995
Benz(a)anthracene	ND	370	1		06/17/03 19:33	S_G	1726995
Benzaldehyde	ND	370	1		06/17/03 19:33	S_G	1726995
Benzo(a)pyrene	ND	370	1		06/17/03 19:33	S_G	1726995
Benzo(b)fluoranthene	ND	370	1		06/17/03 19:33	S_G	1726995
Benzo(g,h,i)perylene	ND	370	1		06/17/03 19:33	S_G	1726995
Benzo(k)fluoranthene	ND	370	1		06/17/03 19:33	S_G	1726995
Biphenyl	ND	370	1		06/17/03 19:33	S_G	1726995
Bis(2-chloroethoxy)methane	ND	370	1		06/17/03 19:33	S_G	1726995
Bis(2-chloroethyl)ether	ND	110	1		06/17/03 19:33	S_G	1726995
Bis(2-chloroisopropyl)ether	ND	370	1		06/17/03 19:33	S_G	1726995
Bis(2-ethylhexyl)phthalate	ND	370	1		06/17/03 19:33	S_G	1726995
Butyl benzyl phthalate	ND	370	1		06/17/03 19:33	S_G	1726995
Caprolactam	ND	370	1		06/17/03 19:33	S_G	1726995
Carbazole	ND	370	1		06/17/03 19:33	S_G	1726995

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Concentrations exceeding Calibration range of Instrument
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SO-17303-MA-060503-199

Collected: 06/05/2003 8:10

SPL Sample ID: 03060278-01

Site: #17303 CVO Property

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Chrysene	ND	370	1		06/17/03 19:33	S_G	1726995
Di-n-butyl phthalate	ND	370	1		06/17/03 19:33	S_G	1726995
Di-n-octyl phthalate	ND	370	1		06/17/03 19:33	S_G	1726995
Dibenz(a,h)anthracene	ND	370	1		06/17/03 19:33	S_G	1726995
Dibenzofuran	ND	370	1		06/17/03 19:33	S_G	1726995
Diethyl phthalate	ND	370	1		06/17/03 19:33	S_G	1726995
Dimethyl phthalate	ND	370	1		06/17/03 19:33	S_G	1726995
Fluoranthene	ND	370	1		06/17/03 19:33	S_G	1726995
Fluorene	ND	370	1		06/17/03 19:33	S_G	1726995
Hexachlorobenzene	ND	370	1		06/17/03 19:33	S_G	1726995
Hexachlorobutadiene	ND	370	1		06/17/03 19:33	S_G	1726995
Hexachlorocyclopentadiene	ND	370	1		06/17/03 19:33	S_G	1726995
Hexachloroethane	ND	370	1		06/17/03 19:33	S_G	1726995
Indeno(1,2,3-cd)pyrene	ND	370	1		06/17/03 19:33	S_G	1726995
Isophorone	ND	370	1		06/17/03 19:33	S_G	1726995
N-Nitrosodi-n-propylamine	ND	370	1		06/17/03 19:33	S_G	1726995
N-Nitrosodiphenylamine	ND	370	1		06/17/03 19:33	S_G	1726995
Naphthalene	ND	370	1		06/17/03 19:33	S_G	1726995
Nitrobenzene	ND	220	1		06/17/03 19:33	S_G	1726995
Pentachlorophenol	ND	890	1		06/17/03 19:33	S_G	1726995
Phenanthrene	ND	370	1		06/17/03 19:33	S_G	1726995
Phenol	ND	370	1		06/17/03 19:33	S_G	1726995
Pyrene	ND	370	1		06/17/03 19:33	S_G	1726995
2-Methylphenol	ND	370	1		06/17/03 19:33	S_G	1726995
3 & 4-Methylphenol	ND	370	1		06/17/03 19:33	S_G	1726995
Surr: 2,4,6-Tribromophenol	140 MI	% 19-122	1		06/17/03 19:33	S_G	1726995
Surr: 2-Fluorobiphenyl	82.4	% 30-115	1		06/17/03 19:33	S_G	1726995
Surr: 2-Fluorophenol	88.0	% 25-121	1		06/17/03 19:33	S_G	1726995
Surr: Nitrobenzene-d5	165 MI	% 23-120	1		06/17/03 19:33	S_G	1726995
Surr: Phenol-d5	100	% 24-113	1		06/17/03 19:33	S_G	1726995
Surr: Terphenyl-d14	38.2	% 18-137	1		06/17/03 19:33	S_G	1726995

Prep Method	Prep Date	Prep Initials
SW3550B	06/09/2003 12:43	HH

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Concentrations exceeding Calibration range of Instrument

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SO-17303-MA-060503-199

Collected: 06/05/2003 8:10

SPL Sample ID: 03060278-01

Site: #17303 CVO Property

Analyses/Method	Result	Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
TCLP VOLATILE ORGANICS			MCL	SW8260B		Units: ug/L		
1,1-Dichloroethene	ND	50	700	10		06/10/03 13:28	TL	1714329
1,2-Dichloroethane	ND	50	500	10		06/10/03 13:28	TL	1714329
2-Butanone	ND	200	200000	10		06/10/03 13:28	TL	1714329
Benzene	ND	50	500	10		06/10/03 13:28	TL	1714329
Carbon tetrachloride	ND	50	500	10		06/10/03 13:28	TL	1714329
Chlorobenzene	ND	50	100000	10		06/10/03 13:28	TL	1714329
Chloroform	ND	50	6000	10		06/10/03 13:28	TL	1714329
Tetrachloroethene	ND	50	700	10		06/10/03 13:28	TL	1714329
Trichloroethene	ND	50	500	10		06/10/03 13:28	TL	1714329
Vinyl chloride	ND	100	200	10		06/10/03 13:28	TL	1714329
Surr: 1,2-Dichloroethane-d4	100	%	62-130	10		06/10/03 13:28	TL	1714329
Surr: 4-Bromofluorobenzene	74.0	%	70-130	10		06/10/03 13:28	TL	1714329
Surr: Toluene-d8	114	%	74-122	10		06/10/03 13:28	TL	1714329

Leach Method	Leachate Date	Leach Initials
SW1311	06/07/2003 13:55	E_S

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SO-17303-MA-060503-199

Collected: 06/05/2003 8:10

SPL Sample ID: 03060278-01

Site: #17303 CVO Property

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B		MCL	SW8260B	Units: ug/Kg-dry			
1,1,1-Trichloroethane	ND	55	50		06/17/03 4:05	C_V	1724469
1,1,2,2-Tetrachloroethane	ND	110	50		06/17/03 4:05	C_V	1724469
1,1,2-Trichloroethane	ND	55	50		06/17/03 4:05	C_V	1724469
1,1-Dichloroethane	ND	55	50		06/17/03 4:05	C_V	1724469
1,1-Dichloroethene	ND	55	50		06/17/03 4:05	C_V	1724469
1,2,4-Trichlorobenzene	ND	280	50		06/17/03 4:05	C_V	1724469
1,2-Dibromo-3-chloropropane	ND	280	50		06/17/03 4:05	C_V	1724469
1,2-Dibromoethane	ND	280	50		06/17/03 4:05	C_V	1724469
1,2-Dichlorobenzene	ND	110	50		06/17/03 4:05	C_V	1724469
1,2-Dichloroethane	ND	55	50		06/17/03 4:05	C_V	1724469
1,2-Dichloropropane	ND	55	50		06/17/03 4:05	C_V	1724469
1,3-Dichlorobenzene	ND	110	50		06/17/03 4:05	C_V	1724469
1,4-Dichlorobenzene	ND	110	50		06/17/03 4:05	C_V	1724469
2-Butanone	ND	830	50		06/17/03 4:05	C_V	1724469
2-Hexanone	ND	2800	50		06/17/03 4:05	C_V	1724469
4-Methyl-2-pentanone	ND	2800	50		06/17/03 4:05	C_V	1724469
Acetone	ND	830	50		06/17/03 4:05	C_V	1724469
Benzene	ND	55	50		06/17/03 4:05	C_V	1724469
Bromodichloromethane	ND	110	50		06/17/03 4:05	C_V	1724469
Bromoform	ND	110	50		06/17/03 4:05	C_V	1724469
Bromomethane	ND	280	50		06/17/03 4:05	C_V	1724469
Carbon disulfide	ND	280	50		06/17/03 4:05	C_V	1724469
Carbon tetrachloride	ND	55	50		06/17/03 4:05	C_V	1724469
Chlorobenzene	ND	55	50		06/17/03 4:05	C_V	1724469
Chloroethane	ND	280	50		06/17/03 4:05	C_V	1724469
Chloroform	ND	55	50		06/17/03 4:05	C_V	1724469
Chloromethane	ND	280	50		06/17/03 4:05	C_V	1724469
Cyclohexane	ND	1300	50		06/17/03 4:05	C_V	1724469
Dibromochloromethane	ND	55	50		06/17/03 4:05	C_V	1724469
Dichlorodifluoromethane	ND	110	50		06/17/03 4:05	C_V	1724469
Ethylbenzene	ND	55	50		06/17/03 4:05	C_V	1724469
Freon-113	ND	280	50		06/17/03 4:05	C_V	1724469
Isopropylbenzene	ND	280	50		06/17/03 4:05	C_V	1724469
Methyl acetate	ND	1300	50		06/17/03 4:05	C_V	1724469
Methyl tert-butyl ether	ND	280	50		06/17/03 4:05	C_V	1724469
Methylcyclohexane	ND	550	50		06/17/03 4:05	C_V	1724469
Methylene chloride	ND	280	50		06/17/03 4:05	C_V	1724469
Styrene	ND	55	50		06/17/03 4:05	C_V	1724469
Tetrachloroethene	ND	55	50		06/17/03 4:05	C_V	1724469
Toluene	ND	110	50		06/17/03 4:05	C_V	1724469

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Concentrations exceeding Calibration range of Instrument

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SO-17303-MA-060503-199

Collected: 06/05/2003 8:10

SPL Sample ID: 03060278-01

Site: #17303 CVO Property

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Trichloroethene	ND	55	50		06/17/03 4:05	C_V	1724469
Trichlorofluoromethane	ND	110	50		06/17/03 4:05	C_V	1724469
Vinyl chloride	ND	110	50		06/17/03 4:05	C_V	1724469
cis-1,2-Dichloroethene	ND	55	50		06/17/03 4:05	C_V	1724469
cis-1,3-Dichloropropene	ND	55	50		06/17/03 4:05	C_V	1724469
trans-1,2-Dichloroethene	ND	55	50		06/17/03 4:05	C_V	1724469
trans-1,3-Dichloropropene	ND	55	50		06/17/03 4:05	C_V	1724469
Xylenes, Total	ND	170	50		06/17/03 4:05	C_V	1724469
1,2-Dichloroethene (total)	ND	55	50		06/17/03 4:05	C_V	1724469
1,3-Dichloropropene, Total	ND	55	50		06/17/03 4:05	C_V	1724469
Surr: 4-Bromofluorobenzene	100	% 62-130	50		06/17/03 4:05	C_V	1724469
Surr: Toluene-d8	100	% 70-140	50		06/17/03 4:05	C_V	1724469
Surr: 1,2-Dichloroethane-d4	104	% 64-130	50		06/17/03 4:05	C_V	1724469

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Concentrations exceeding Calibration range of Instrument

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



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HOUSTON, TX 77054
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Client Sample ID SO-17303-MA-060503-199

Collected: 06/05/2003 8:10

SPL Sample ID: 03060278-01

Site: #17303 CVO Property

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				D2216	Units: wt%		
Percent Moisture	9.8	0	1		06/09/03 19:00	DP	1711286

Qualifiers:

ND/U - Not Detected at the Reporting Limit

>MCL - Result Over Maximum Contamination Limit(MCL)

B - Analyte detected in the associated Method Blank

D - Surrogate Recovery Unreportable due to Dilution

* - Surrogate Recovery Outside Advisable QC Limits

MI - Matrix Interference

J - Estimated Value between MDL and PQL

E - Concentrations exceeding Calibration range of Instrument

Quality Control Documentation



HOUSTON LABORATORY
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Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303 CVO Property

Analysis: Polychlorinated Biphenyls by Method 8082
Method: SW8082

WorkOrder: 03060278
Lab Batch ID: 29108

Method Blank

Samples in Analytical Batch:

RunID: VAR9_030611C-1716326 Units: ug/Kg
Analysis Date: 06/11/2003 16:42 Analyst: AR
Preparation Date: 06/09/2003 12:41 Prep By: HH Method SW3550B

Lab Sample ID: 03060278-01A
Client Sample ID: SO-17303-MA-060503-199

Analyte	Result	Qual	Rep Limit
Aroclor 1016	ND		33
Aroclor 1221	ND		33
Aroclor 1232	ND		33
Aroclor 1242	ND		33
Aroclor 1248	ND		33
Aroclor 1254	ND		33
Aroclor 1260	ND		33
Surr: Decachlorobiphenyl	113.0		26-161
Surr: Tetrachloro-m-xylene	92.5		40-130

Laboratory Control Sample (LCS)

RunID: VAR9_030611C-1716327 Units: ug/Kg
Analysis Date: 06/11/2003 17:32 Analyst: AR
Preparation Date: 06/09/2003 12:41 Prep By: HH Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Aroclor 1016	333	346	104		50	144
Aroclor 1260	333	326	98		55	131

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060203-04
RunID: VAR9_030611C-1717520 Units: ug/Kg-dry
Analysis Date: 06/12/2003 15:40 Analyst: AR
Preparation Date: 06/09/2003 12:41 Prep By: HH Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS Qual	MS % Rcvry	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Aroclor 1016	ND	354	256		72.5	354	191	54.0		29.1		30	34	138
Aroclor 1260	ND	354	235		66.4	354	178	50.2		27.7 *	*	24	23	140

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303 CVO Property

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 03060278
Lab Batch ID: 29141

Method Blank

Samples in Analytical Batch:

RunID: TJA_030614C-1720711 Units: mg/Kg
Analysis Date: 06/15/2003 7:08 Analyst: EG
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Lab Sample ID Client Sample ID
03060278-01A SO-17303-MA-060503-199

Analyte	Result	Qual	Rep Limit
Barium	ND		0.5
Copper	ND		1
Iron	ND		2
Vanadium	ND		0.5

Laboratory Control Sample (LCS)

RunID: TJA_030614C-1720712 Units: mg/Kg
Analysis Date: 06/15/2003 7:13 Analyst: EG
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Barium	100	96.66	97		80	120
Copper	100	93.66	94		80	120
Iron	100	105.3	105		80	120
Vanadium	100	104.7	105		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060278-01
RunID: TJA_030614C-1720714 Units: mg/Kg-dry
Analysis Date: 06/15/2003 7:25 Analyst: EG
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS Qual	MS % Rcvry	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Barium	2.612	111	82.35	*	71.85 *	111	84.24	73.55 *	*	2.268		20	75	125
Copper	2.188	111	81.38	*	71.35 *	111	83.07	72.88 *	*	2.062		20	75	125
	2238	111	2616		N/C	111	2483	N/C		N/C		20	75	125
Vanadium	3.494	111	89.75		77.72	111	91.13	78.96		1.517		20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

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Quality Control Report

Conestoga-Rovers & Associates, Inc.
#17303 CVO Property

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 03060278
Lab Batch ID: 29141-T

Method Blank

Samples in Analytical Batch:

RunID: TJAT_030611D-1716383 Units: mg/Kg
Analysis Date: 06/12/2003 7:16 Analyst: NS Lab Sample ID: 03060278-01A Client Sample ID: SO-17303-MA-060503-199
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Result	Qual	Rep Limit
Antimony	ND		0.5
Chromium	ND		0.5
Cobalt	ND		0.5
Lead	ND		0.5
Manganese	ND		0.5
Nickel	ND		0.5
Thallium	ND		0.5
Zinc	ND		2

Laboratory Control Sample (LCS)

RunID: TJAT_030611D-1716384 Units: mg/Kg
Analysis Date: 06/12/2003 7:22 Analyst: NS
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Antimony	100	108.9	109		80	120
Chromium	100	103.3	103		80	120
Cobalt	100	106.5	106		80	120
Lead	100	106.1	106		80	120
Manganese	100	104.8	105		80	120
Nickel	100	105.7	106		80	120
Thallium	100	103.5	104		80	120
Zinc	100	106.4	106		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060278-01
RunID: TJAT_030611D-1716386 Units: mg/Kg-dry
Analysis Date: 06/12/2003 7:34 Analyst: NS
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS Qual	MS % Rcvry	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Antimony	3.250	111	98.27		85.62	111	100.9	87.98		2.630		20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303 CVO Property

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 03060278
Lab Batch ID: 29141-T

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060278-01
RunID: TJAT_030611D-1716386 Units: mg/Kg-dry
Analysis Date: 06/12/2003 7:34 Analyst: NS
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS Qual	MS % Rcvry	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Chromium	7.696	111	93.19		77.03	111	93.68	77.47		0.5250		20	75	125
Cadmium	1.251	111	86.94		77.20	111	88.18	78.32		1.423		20	75	125
Copper	1.313	111	89.26		79.24	111	91.03	80.83		1.965		20	75	125
Manganese	68.74	111	165.7		87.39	111	167.2	88.70		0.8741		20	75	125
Nickel	3.310	111	88.23		76.52	111	89.23	77.41		1.121		20	75	125
Barium	1.673	111	88		77.78	111	89.14	78.80		1.287		20	75	125
Lead	8.809	111	96.95		79.42	111	97.33	79.75		0.3850		20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

Percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303 CVO Property

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 03060278
Lab Batch ID: 29141A

Method Blank

Samples in Analytical Batch:

RunID: TJA_030618A-1728441 Units: mg/Kg
Analysis Date: 06/18/2003 14:13 Analyst: MW
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Lab Sample ID

Client Sample ID

03060278-01A

SO-17303-MA-060503-199

Analyte	Result	Qual	Rep Limit
Calcium	ND		10

Laboratory Control Sample (LCS)

RunID: TJA_030618A-1728442 Units: mg/Kg
Analysis Date: 06/18/2003 14:18 Analyst: MW
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Calcium	100	105.8	106		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060278-01
RunID: TJA_030618A-1728444 Units: mg/Kg-dry
Analysis Date: 06/18/2003 14:26 Analyst: MW
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS Qual	MS % Rcvry	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
um	37650	111	40260		N/C	111	41420	N/C		N/C		20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Concentrations exceeding Calibration range of Instrument

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303 CVO Property

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 03060278
Lab Batch ID: 29141B-T

Method Blank

Samples in Analytical Batch:

RunID: TJAT_030612B-1717560 Units: mg/Kg
Lab Sample ID: 03060278-01A Client Sample ID: SO-17303-MA-060503-199
Analysis Date: 06/12/2003 19:52 Analyst: NS
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Result	Qual	Rep Limit
Silver	ND		0.5

Laboratory Control Sample (LCS)

RunID: TJAT_030612B-1717561 Units: mg/Kg
Analysis Date: 06/12/2003 19:58 Analyst: NS
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Silver	100	100.7	101		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060278-01
RunID: TJAT_030612B-1717563 Units: mg/Kg-dry
Analysis Date: 06/12/2003 20:10 Analyst: NS
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS Qual	MS % Rcvry	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Silver	ND	111	83.05	*	74.82	111	88.47	79.71		6.318		20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

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Quality Control Report

Conestoga-Rovers & Associates, Inc.
#17303 CVO Property

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 03060278
Lab Batch ID: 29141C

Method Blank

Samples in Analytical Batch:

RunID: TJA_030624A-1735699 Units: mg/Kg
Analysis Date: 06/24/2003 10:57 Analyst: MW Lab Sample ID: 03060278-01A Client Sample ID: SO-17303-MA-060503-199
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Result	Qual	Rep Limit
Aluminum	ND		10
Magnesium	ND		10
Potassium	ND		200
Sodium	ND		50

Laboratory Control Sample (LCS)

RunID: TJA_030624A-1735699 Units: mg/Kg
Analysis Date: 06/24/2003 11:02 Analyst: MW
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Aluminum	100	98.52	99		80	120
Magnesium	100	97.49	97		80	120
Potassium	1000	1079	108		80	120
Sodium	100	89.69	90		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060278-01
RunID: TJA_030624A-1735701 Units: mg/Kg-dry
Analysis Date: 06/24/2003 11:11 Analyst: MW
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS Qual	MS % Rcvry	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Aluminum	1044	111	1293		N/C	111	1280	N/C		N/C		20	75	125
Magnesium	5966	111	7995		N/C	111	6343	N/C		N/C		20	75	125
Potassium	ND	1110	996.4		76.60	1110	1062	82.48		6.337		20	75	125
Sodium	102.3	111	181.5	*	71.33 *	111	187.5	76.68		3.214		20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303 CVO Property

Analysis: Mercury, Total
Method: SW7471A

WorkOrder: 03060278
Lab Batch ID: 29246

Method Blank

Samples in Analytical Batch:

RunID: HGLD_030613A-1718128 Units: mg/kg
Analysis Date: 06/13/2003 13:20 Analyst: R_T
Preparation Date: 06/13/2003 10:20 Prep By: R_T Method SW7471A

Lab Sample ID: 03060278-01A
Client Sample ID: SO-17303-MA-060503-199

Analyte	Result	Qual	Rep Limit
Mercury	ND		0.03

Laboratory Control Sample (LCS)

RunID: HGLD_030613A-1718129 Units: mg/kg
Analysis Date: 06/13/2003 13:23 Analyst: R_T
Preparation Date: 06/13/2003 10:20 Prep By: R_T Method SW7471A

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Mercury	8.31	8.984	108		62	138

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03051062-09
RunID: HGLD_030613A-1718131 Units: mg/kg
Analysis Date: 06/13/2003 13:28 Analyst: R_T
Preparation Date: 06/13/2003 10:20 Prep By: R_T Method SW7471A

Analyte	Sample Result	MS Spike Added	MS Result	MS Qual	MS % Rcvry	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Mercury	ND	0.3	0.3099		100.4	0.3	0.3104	100.5		0.1731		20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

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Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303 CVO Property

Analysis: Metals by Method 6020, Total
Method: SW6020

WorkOrder: 03060278
Lab Batch ID: 29533

Method Blank

Samples in Analytical Batch:

RunID: ICPMS_030623A-1735151 Units: mg/Kg

Lab Sample ID

Client Sample ID

Analysis Date: 06/23/2003 15:56 Analyst: EG

03060278-01A

SO-17303-MA-060503-199

Preparation Date: 06/21/2003 12:45 Prep By: SE Method SW3050B

Analyte	Result	Qual	Rep Limit
Arsenic	ND		0.1
Beryllium	ND		0.1
Cadmium	0.0345	J	0.05
Selenium	ND		0.1

Laboratory Control Sample (LCS)

RunID: ICPMS_030623A-1735152 Units: mg/Kg

Analysis Date: 06/23/2003 16:00 Analyst: EG

Preparation Date: 06/21/2003 12:45 Prep By: SE Method SW3050B

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	10	6.807	68		50	150
Beryllium	10	8.198	82		50	150
Cadmium	10	8.889	89		50	150
Selenium	10	6.675	67		50	150

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060278-01

RunID: ICPMS_030623A-1735154 Units: mg/Kg-dry

Analysis Date: 06/23/2003 16:10 Analyst: EG

Preparation Date: 06/21/2003 12:45 Prep By: SE Method SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS Qual	MS % Rcvry	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	6.229	11.1	9.236	*	27.10 *	11.1	11.11	43.98 *	*	18.42		20	50	150
Beryllium	ND	11.1	5.82		51.70	11.1	7.549	67.28		25.87 *	*	20	50	150
Cadmium	0.5128	11.1	7.562		63.51	11.1	8.4	71.06		10.50		20	50	150
Selenium	0.5708	11.1	4.736	*	37.53 *	11.1	5.585	45.18 *	*	16.45		20	50	150

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Concentrations exceeding Calibration range of Instrument

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303 CVO Property

Analysis: Semivolatile Organics by Method 8270C
Method: SW8270C

WorkOrder: 03060278
Lab Batch ID: 29109

Method Blank

Samples in Analytical Batch:

ID: H_030708A-1757405 Units: ug/Kg
Analysis Date: 07/08/2003 12:41 Analyst: GY
Preparation Date: 06/09/2003 12:43 Prep By: HH Method SW3550B

Lab Sample ID 03060278-01A
Client Sample ID SO-17303-MA-060503-199

Analyte	Result	Qual	Rep Limit
2,4,5-Trichlorophenol	ND		330
2,4,6-Trichlorophenol	ND		330
2,4-Dichlorophenol	ND		330
2,4-Dimethylphenol	ND		330
2,4-Dinitrophenol	ND		1700
2,4-Dinitrotoluene	ND		330
2,6-Dinitrotoluene	ND		330
2-Chloronaphthalene	ND		330
2-Chlorophenol	ND		330
2-Methylnaphthalene	ND		330
2-Nitroaniline	ND		1700
2-Nitrophenol	ND		330
3,3'-Dichlorobenzidine	ND		2000
3-Nitroaniline	ND		1700
4,6-Dinitro-2-methylphenol	ND		1700
4-Bromophenyl phenyl ether	ND		330
4-Chloro-3-methylphenol	ND		330
4-Chloroaniline	ND		1700
4-Chlorophenyl phenyl ether	ND		330
4-Nitroaniline	ND		1700
4-Nitrophenol	ND		1700
Acenaphthene	ND		330
Acenaphthylene	ND		330
Anthracene	ND		330
Benz(a)anthracene	ND		330
Benzo(a)pyrene	ND		330
Benzo(b)fluoranthene	ND		330
Benzo(g,h,i)perylene	ND		330
Benzo(k)fluoranthene	ND		330
Bis(2-chloroethoxy)methane	ND		330
Bis(2-chloroethyl)ether	ND		100
Bis(2-chloroisopropyl)ether	ND		330
Bis(2-ethylhexyl)phthalate	ND		330
Butyl benzyl phthalate	ND		330
Carbazole	ND		330
Chrysene	ND		330
Di-n-butyl phthalate	ND		330
Di-n-octyl phthalate	ND		330
Dibenz(a,h)anthracene	ND		330
Dibenzofuran	ND		330
Diethyl phthalate	ND		330
Dimethyl phthalate	ND		330
Fluoranthene	ND		330
Fluorene	ND		330
Hexachlorobenzene	ND		330
Hexachlorobutadiene	ND		330

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Concentrations exceeding Calibration range of Instrument

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303 CVO Property

Analysis: Semivolatile Organics by Method 8270C
Method: SW8270C

WorkOrder: 03060278
Lab Batch ID: 29109

Method Blank

ID: H_030708A-1757405 Units: ug/Kg
Analysis Date: 07/08/2003 12:41 Analyst: GY
Preparation Date: 06/09/2003 12:43 Prep By: HH Method SW3550B

Analyte	Result	Qual	Rep Limit
Hexachlorocyclopentadiene	ND		330
Hexachloroethane	ND		330
Indeno(1,2,3-cd)pyrene	ND		330
Isophorone	ND		330
N-Nitrosodi-n-propylamine	ND		330
N-Nitrosodiphenylamine	ND		330
Naphthalene	ND		330
Nitrobenzene	ND		200
Pentachlorophenol	ND		800
Phenanthrene	ND		330
Phenol	ND		330
Pyrene	ND		330
2-Methylphenol	ND		330
3 & 4-Methylphenol	ND		330
Surr: 2,4,6-Tribromophenol	80.0		19-122
Surr: 2-Fluorobiphenyl	82.4		30-115
Surr: 2-Fluorophenol	76.0		25-121
Surr: Nitrobenzene-d5	82.4		23-120
Surr: Phenol-d5	84.0		24-113
Surr: Terphenyl-d14	88.2		18-137

Laboratory Control Sample (LCS)

RunID: H_030708A-1757407 Units: ug/Kg
Analysis Date: 07/08/2003 13:48 Analyst: GY
Preparation Date: 06/09/2003 12:43 Prep By: HH Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
1,2,4-Trichlorobenzene	1700	1500	88		44	142
1,4-Dichlorobenzene	1700	1400	82		20	124
2,4-Dinitrotoluene	1700	1600	94		30	150
2-Chlorophenol	2500	2100	84		23	134
4-Chloro-3-methylphenol	2500	2200	88		22	147
4-Nitrophenol	2500	2000	80		1	132
Acenaphthene	1700	1500	88		30	160
N-Nitrosodi-n-propylamine	1700	1900	112		1	230
Pentachlorophenol	2500	2000	80		14	176
Phenol	2500	2100	84		5	112
Pyrene	1700	1700	100		26	127

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303 CVO Property

Analysis: Semivolatile Organics by Method 8270C
Method: SW8270C

WorkOrder: 03060278
Lab Batch ID: 29109

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060267-01
RunID: H_030708D-1761606 Units: ug/Kg-dry
Analysis Date: 07/09/2003 2:02 Analyst: GY
Preparation Date: 06/09/2003 12:43 Prep By: HH Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS Qual	MS % Rcvry	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
4-Trichlorobenzene	ND	1890	1450		76	1890	1110	58.8		26		28	44	142
Dichlorobenzene	ND	1890	1340		71	1890	1050	55.3		24		28	20	124
4-Dinitrotoluene	ND	1890	1450		76	1890	1220	64.7		17		50	30	150
Chlorophenol	ND	2780	1890		68	2780	1560	56.0		19		40	23	134
2-Chloro-3-methylphenol	ND	2780	2120		76	2780	1670	60.0		24		42	22	147
4-Chlorophenol	ND	2780	2000		72	2780	1560	56.0		25		50	1	132
Naphthalene	ND	1890	1450		76	1890	1220	64.7		17		31	30	160
Diisopropylamine	ND	1890	1670		88	1890	1340	70.6		22		38	1	230
2,4-Dichlorophenol	ND	2780	2120		76	2780	1560	56.0		30		50	14	176
Phenol	ND	2780	1890		68	2780	1560	56.0		19		42	5	112
Benzene	ND	1890	1780		94	1890	1340	70.6		29		31	26	127

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

One percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Conestoga-Rovers & Associates, Inc.
#17303 CVO Property

Analysis: TCLP Volatile Organics
Method: SW8260B

WorkOrder: 03060278
Lab Batch ID: R86927

Method Blank

Samples in Analytical Batch:

ID: Q_030609C-1714321 Units: ug/L
Analysis Date: 06/10/2003 6:18 Analyst: TL

Lab Sample ID: 03060278-01A
Client Sample ID: SO-17303-MA-060503-199

Analyte	Result	Qual	Rep Limit
1,1-Dichloroethene	ND		5.0
1,2-Dichloroethane	ND		5.0
2-Butanone	ND		20
Benzene	ND		5.0
Carbon tetrachloride	ND		5.0
Chlorobenzene	ND		5.0
Chloroform	ND		5.0
Tetrachloroethene	ND		5.0
Trichloroethene	ND		5.0
Vinyl chloride	ND		10
Surr: 1,2-Dichloroethane-d4	98.0		62-130
Surr: 4-Bromofluorobenzene	74.0		70-130
Surr: Toluene-d8	120.0		74-122

Leachate Blank

ID: Q_030609C-1714326 Units: ug/L
Analysis Date: 06/10/2003 12:07 Analyst: TL

Analysis Date: 06/07/2003 13:55 Leach By: E_S Method SW1311

Analyte	Result	Qual	Rep Limit
1,1-Dichloroethene	ND		5
1,2-Dichloroethane	ND		5
2-Butanone	ND		20
Benzene	ND		5
Carbon tetrachloride	ND		5
Chlorobenzene	ND		5
Chloroform	ND		5
Tetrachloroethene	ND		5
Trichloroethene	ND		5
Vinyl chloride	ND		10

Laboratory Control Sample (LCS)

RunID: Q_030609C-1714320 Units: ug/L
Analysis Date: 06/10/2003 5:25 Analyst: TL

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
1,1-Dichloroethene	50	42	84		35	175
1,2-Dichloroethane	50	44	88		35	175
2-Butanone	50	24	48		10	175

Modifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.



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Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303 CVO Property

Analysis: TCLP Volatile Organics
Method: SW8260B

WorkOrder: 03060278
Lab Batch ID: R86927

Laboratory Control Sample (LCS)

RunID: Q_030609C-1714320 Units: ug/L
Analysis Date: 06/10/2003 5:25 Analyst: TL

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Benzene	50	50	100		35	175
Carbon tetrachloride	50	55	110		35	175
Chlorobenzene	50	47	94		35	175
Chloroform	50	46	92		35	175
Tetrachloroethene	50	80	160		35	200
Trichloroethene	50	45	90		35	175
Vinyl chloride	50	53	106		35	175

Matrix Spike (MS)

Sample Spiked: 03060259-01
RunID: Q_030609C-1714323 Units: ug/L
Analysis Date: 06/10/2003 8:32 Analyst: TL

Analyte	Sample Result	Spike Added	MS Result	MS % Recovery	Low Limit	High Limit
1,1-Dichloroethene	ND	500	400	80	35	175
1,2-Dichloroethane	ND	500	450	90	35	175
2-Butanone	ND	500	210	42	10	175
Benzene	ND	500	470	94	35	175
Carbon tetrachloride	ND	500	490	98	35	175
Chlorobenzene	ND	500	450	90	35	175
Chloroform	ND	500	440	88	35	175
Tetrachloroethene	ND	500	420	84	35	200
Trichloroethene	ND	500	400	80	35	175
Vinyl chloride	ND	500	480	96	35	175

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303 CVO Property

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 03060278
Lab Batch ID: R87368

Method Blank

Samples in Analytical Batch:

ID: Q_030616B-1724453 Units: ug/Kg
Analysis Date: 06/16/2003 20:30 Analyst: C_V

Lab Sample ID 03060278-01B
Client Sample ID SO-17303-MA-060503-199

Analyte	Result	Qual	Rep Limit
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		2.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		5.0
1,2-Dibromo-3-chloropropane	ND		5.0
1,2-Dibromoethane	ND		5.0
1,2-Dichlorobenzene	ND		2.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		2.0
1,4-Dichlorobenzene	ND		2.0
2-Butanone	ND		15
2-Hexanone	ND		50
4-Methyl-2-pentanone	ND		50
Acetone	ND		15
Benzene	ND		1.0
Bromodichloromethane	ND		2.0
Bromoform	ND		2.0
Bromomethane	ND		5.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		5.0
Chloroform	ND		1.0
Chloromethane	ND		5.0
Cyclohexane	ND		24
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		2.0
Ethylbenzene	ND		1.0
Freon-113	ND		5.0
Isopropylbenzene	ND		5.0
Methyl acetate	ND		24
Methyl tert-butyl ether	ND		5.0
Methylcyclohexane	ND		10
Methylene chloride	ND		5.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		2.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		2.0
Vinyl chloride	ND		2.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Concentrations exceeding Calibration range of Instrument

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303 CVO Property

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 03060278
Lab Batch ID: R87368

Method Blank

RunID: Q_030616B-1724453 Units: ug/Kg
Analysis Date: 06/16/2003 20:30 Analyst: C_V

Analyte	Result	Qual	Rep Limit
trans-1,3-Dichloropropene	ND		1.0
1,2-Dichloroethene (total)	ND		1.0
1,3-Dichloropropene, Total	ND		1.0
Xylenes, Total	ND		3.0
Surr: 1,2-Dichloroethane-d4	94.4		64-130
Surr: 4-Bromofluorobenzene	88.0		62-130
Surr: Toluene-d8	105.6		70-140

Laboratory Control Sample (LCS)

RunID: Q_030616B-1724451 Units: ug/L
Analysis Date: 06/16/2003 18:57 Analyst: C_V

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
1,1-Dichloroethene	50	56	112		61	145
Benzene	50	55	110		76	127
Chlorobenzene	50	48	96		70	130
Toluene	50	52	104		70	129
Trichloroethene	50	52	104		60	140

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060453-03
RunID: Q_030616B-1724457 Units: ug/Kg-dry
Analysis Date: 06/16/2003 21:24 Analyst: C_V

Analyte	Sample Result	MS Spike Added	MS Result	MS Qual	MS % Rcvry	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
1,1-Dichloroethene	ND	8090	8020		99	8090	8670	107		8		22	59	172
Benzene	ND	8090	9060		108	8090	9060	108		0		21	66	142
Chlorobenzene	ND	8090	7120		88	8090	7370	91.2		4		21	60	133
Toluene	944	8090	8280		91	8090	8670	95.5		5		21	59	139
Trichloroethene	ND	8090	8280		102	8090	8280	102		0		24	60	140

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

Percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

*Sample Receipt Checklist
And
Chain of Custody*



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Conestoga-Rovers & Associates, Inc.

Certificate of Analysis Number:

03060186

<u>Report To:</u> Conestoga-Rovers & Associates, Inc. Paul Wiseman 14496 Sheldon Rd. Suite 200 Plymouth MI 48170- ph (734) 453-5123 fax:	<u>Project Name:</u> #17303/CVO <u>Site:</u> #17303/CVO <u>Site Address:</u> <u>PO Number:</u> 40-0017478 <u>State:</u> Michigan <u>State Cert. No.:</u> <u>Date Reported:</u> 6/25/03
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This Report Contains A Total Of 56 Pages

Excluding This Page

ORIGINAL ANALYTICAL REPORT

Project#: 17303 Lab#: 03060186

Name: WILLOW RUN

Description

Event: _____

Samples: 4 SOIL

Analysis: PCB, METAL, VOC

SUOC

TAT: 14 day

Lab: SPL

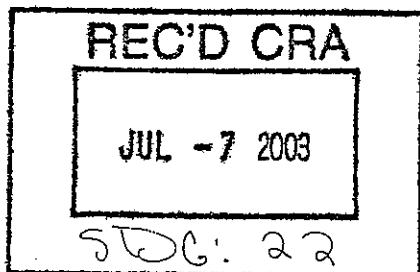
Checked Against Preliminary Data:

Date: _____ Init.: _____

Date of Validation Memo: _____

Invoice Approval Date: _____

Comments: Revision!



7/2/03

Date



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HOUSTON, TX 77054
(713) 660-0901

Case Narrative for:
Conestoga-Rovers & Associates, Inc.

Certificate of Analysis Number:

03060186

<u>Report To:</u> Conestoga-Rovers & Associates, Inc. Paul Wiseman 14496 Sheldon Rd. Suite 200 Plymouth MI 48170- ph: (734) 453-5123 fax:	<u>Project Name:</u> #17303/CVO <u>Site:</u> #17303/CVO <u>Site Address:</u> <u>PO Number:</u> 40-0017478 <u>State:</u> Michigan <u>State Cert. No.:</u> <u>Date Reported:</u> 6/25/03
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This report was revised on July 2, 2003 to include Pyridine method 8270C.

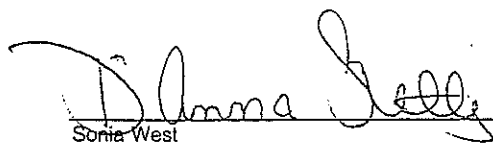
Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.


Sonia West
Senior Project Manager

03060186 Page 1

7/2/03

Date



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(713) 660-0901

Conestoga-Rovers & Associates, Inc.

Certificate of Analysis Number:

03060186

Report To: Conestoga-Rovers & Associates, Inc.
Paul Wiseman
14496 Sheldon Rd.
Suite 200
Plymouth
MI
48170-
ph: (734) 453-5123 fax: (734) 453-5201

Project Name: #17303/CVO

Site: #17303/CVO

Site Address:

PO Number: 40-0017478

State: Michigan

State Cert. No.:

Date Reported: 6/25/03

ax To:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
-17303-MA-060403-195	03060186-01	Soil	6/4/03 8:20:00 AM	6/5/03 9:30:00 AM	21007	☐
SO-17303-MA-060403-196	03060186-02	Soil	6/4/03 11:00:00 AM	6/5/03 9:30:00 AM	21007	☐
17303-MA-060403-197	03060186-03	Soil	6/4/03 3:45:00 PM	6/5/03 9:30:00 AM	21007	☐
-17303-MA-060403-198	03060186-04	Soil	6/4/03 3:30:00 PM	6/5/03 9:30:00 AM	21007	☐

Danna Stelly

onia West
Senior Project Manager

7/2/03

Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-195

Collected: 06/04/2003 8:20

SPL Sample ID: 03060186-01

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
MERCURY, TOTAL			MCL	SW7471A	Units: mg/Kg-dry		
Mercury	ND	0.11	1		06/13/03 13:46	R_T	1718138

Prep Method	Prep Date	Prep Initials
SW7471A	06/13/2003 10:20	R_T

METALS BY METHOD 6010B, TOTAL			MCL	SW6010B	Units: mg/Kg-dry		
Antimony	32.6	0.57	1		06/12/03 8:57	NS	1716403
Chromium	56.1	0.57	1		06/12/03 8:57	NS	1716403
Cobalt	7.94	0.57	1		06/12/03 8:57	NS	1716403
Lead	58.1	1.1	1		06/12/03 8:57	NS	1716403
Manganese	216	1.1	1		06/12/03 8:57	NS	1716403
Nickel	12	1.1	1		06/12/03 8:57	NS	1716403
Silver	ND	0.57	1		06/12/03 21:39	NS	1717577
Thallium	9.18	0.57	1		06/12/03 8:57	NS	1716403
Zinc	145	1.1	1		06/12/03 8:57	NS	1716403
Aluminum	5020	11	1		06/24/03 11:50	MW	1735710
Barium	223	1.1	1		06/15/03 8:16	EG	1720723
Calcium	13000	11	1		06/18/03 15:11	MW	1728453
Copper	12.1	1.1	1		06/15/03 8:16	EG	1720723
Iron	10900	2.3	1		06/15/03 8:16	EG	1720723
Magnesium	5730	11	1		06/24/03 11:50	MW	1735710
Potassium	502	230	1		06/24/03 11:50	MW	1735710
Sodium	605	57	1		06/24/03 11:50	MW	1735710
Vanadium	14.5	1.1	1		06/15/03 8:16	EG	1720723

Prep Method	Prep Date	Prep Initials
SW3050B	06/10/2003 12:20	MED

METALS BY METHOD 6020, TOTAL			MCL	SW6020	Units: mg/Kg-dry		
Arsenic	4.56	0.11	1		06/23/03 21:19	EG	1735186
Beryllium	ND	0.23	1		06/23/03 21:19	EG	1735186
Cadmium	6.9	0.057	1		06/23/03 21:19	EG	1735186
Selenium	1.04	0.23	1		06/23/03 21:19	EG	1735186

Prep Method	Prep Date	Prep Initials
SW3050B	06/20/2003 14:05	MED

PERCENT MOISTURE			MCL	D2216	Units: wt%		
Percent Moisture	12	0	1		06/09/03 19:00	DP	1711268

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-195

Collected: 06/04/2003 8:20

SPL Sample ID: 03060186-01

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
POLYCHLORINATED BIPHENYLS BY METHOD 8082			MCL	SW8082	Units: ug/Kg-dry		
Aroclor 1016	ND	380	5		06/11/03 19:14	AR	1716329
Aroclor 1221	ND	380	5		06/11/03 19:14	AR	1716329
Aroclor 1232	ND	380	5		06/11/03 19:14	AR	1716329
Aroclor 1242	ND	380	5		06/11/03 19:14	AR	1716329
Aroclor 1248	ND	380	5		06/11/03 19:14	AR	1716329
Aroclor 1254	ND	380	5		06/11/03 19:14	AR	1716329
Aroclor 1260	470	380	5		06/11/03 19:14	AR	1716329
Surr: Tetrachloro-m-xylene	50.3 %	40-130	5		06/11/03 19:14	AR	1716329
Surr: Decachlorobiphenyl	85.1 %	26-161	5		06/11/03 19:14	AR	1716329

Prep Method	Prep Date	Prep Initials
SW35508	06/09/2003 12:41	HH

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8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-195

Collected: 06/04/2003 8:20

SPL Sample ID: 03060186-01

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C			MCL	SW8270C	Units: ug/Kg-dry		
2,4,5-Trichlorophenol	ND	750		2	06/17/03 17:28	S_G	1726987
2,4,6-Trichlorophenol	ND	750		2	06/17/03 17:28	S_G	1726987
2,4-Dichlorophenol	ND	750		2	06/17/03 17:28	S_G	1726987
2,4-Dimethylphenol	ND	750		2	06/17/03 17:28	S_G	1726987
2,4-Dinitrophenol	ND	3900		2	06/17/03 17:28	S_G	1726987
2,4-Dinitrotoluene	ND	750		2	06/17/03 17:28	S_G	1726987
2,6-Dinitrotoluene	ND	750		2	06/17/03 17:28	S_G	1726987
2-Chloronaphthalene	ND	750		2	06/17/03 17:28	S_G	1726987
2-Chlorophenol	ND	750		2	06/17/03 17:28	S_G	1726987
2-Methylnaphthalene	1400	750		2	06/17/03 17:28	S_G	1726987
2-Nitroaniline	ND	3900		2	06/17/03 17:28	S_G	1726987
2-Nitrophenol	ND	750		2	06/17/03 17:28	S_G	1726987
3,3'-Dichlorobenzidine	ND	4600		2	06/17/03 17:28	S_G	1726987
3-Nitroaniline	ND	3900		2	06/17/03 17:28	S_G	1726987
4,6-Dinitro-2-methylphenol	ND	3900		2	06/17/03 17:28	S_G	1726987
4-Bromophenyl phenyl ether	ND	750		2	06/17/03 17:28	S_G	1726987
4-Chloro-3-methylphenol	ND	750		2	06/17/03 17:28	S_G	1726987
4-Chloroaniline	ND	3900		2	06/17/03 17:28	S_G	1726987
4-Chlorophenyl phenyl ether	ND	750		2	06/17/03 17:28	S_G	1726987
4-Nitroaniline	ND	3900		2	06/17/03 17:28	S_G	1726987
4-Nitrophenol	ND	3900		2	06/17/03 17:28	S_G	1726987
Acenaphthene	ND	750		2	06/17/03 17:28	S_G	1726987
Acenaphthylene	ND	750		2	06/17/03 17:28	S_G	1726987
Acetophenone	ND	750		2	06/17/03 17:28	S_G	1726987
Anthracene	ND	750		2	06/17/03 17:28	S_G	1726987
Atrazine	ND	340		2	06/17/03 17:28	S_G	1726987
Benz(a)anthracene	ND	750		2	06/17/03 17:28	S_G	1726987
Benzaldehyde	ND	750		2	06/17/03 17:28	S_G	1726987
Benzo(a)pyrene	ND	750		2	06/17/03 17:28	S_G	1726987
Benzo(b)fluoranthene	ND	750		2	06/17/03 17:28	S_G	1726987
Benzo(g,h,i)perylene	ND	750		2	06/17/03 17:28	S_G	1726987
Benzo(k)fluoranthene	ND	750		2	06/17/03 17:28	S_G	1726987
Biphenyl	ND	750		2	06/17/03 17:28	S_G	1726987
Bis(2-chloroethoxy)methane	ND	750		2	06/17/03 17:28	S_G	1726987
Bis(2-chloroethyl)ether	ND	230		2	06/17/03 17:28	S_G	1726987
Bis(2-chloroisopropyl)ether	ND	750		2	06/17/03 17:28	S_G	1726987
Bis(2-ethylhexyl)phthalate	ND	750		2	06/17/03 17:28	S_G	1726987
Butyl benzyl phthalate	ND	750		2	06/17/03 17:28	S_G	1726987
Caprolactam	ND	750		2	06/17/03 17:28	S_G	1726987
Carbazole	ND	750		2	06/17/03 17:28	S_G	1726987

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-195

Collected: 06/04/2003 8:20

SPL Sample ID: 03060186-01

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Chrysene	ND	750	2		06/17/03 17:28	S_G	1726987
Di-n-butyl phthalate	ND	750	2		06/17/03 17:28	S_G	1726987
Di-n-octyl phthalate	ND	750	2		06/17/03 17:28	S_G	1726987
Dibenz(a,h)anthracene	ND	750	2		06/17/03 17:28	S_G	1726987
Dibenzofuran	ND	750	2		06/17/03 17:28	S_G	1726987
Diethyl phthalate	ND	750	2		06/17/03 17:28	S_G	1726987
Dimethyl phthalate	ND	750	2		06/17/03 17:28	S_G	1726987
Fluoranthene	ND	750	2		06/17/03 17:28	S_G	1726987
Fluorene	ND	750	2		06/17/03 17:28	S_G	1726987
Hexachlorobenzene	ND	750	2		06/17/03 17:28	S_G	1726987
Hexachlorobutadiene	ND	750	2		06/17/03 17:28	S_G	1726987
Hexachlorocyclopentadiene	ND	750	2		06/17/03 17:28	S_G	1726987
Hexachloroethane	ND	750	2		06/17/03 17:28	S_G	1726987
Indeno(1,2,3-cd)pyrene	ND	750	2		06/17/03 17:28	S_G	1726987
Isophorone	ND	750	2		06/17/03 17:28	S_G	1726987
N-Nitrosodi-n-propylamine	ND	750	2		06/17/03 17:28	S_G	1726987
N-Nitrosodiphenylamine	ND	750	2		06/17/03 17:28	S_G	1726987
Naphthalene	1100	750	2		06/17/03 17:28	S_G	1726987
Nitrobenzene	ND	460	2		06/17/03 17:28	S_G	1726987
Pentachlorophenol	ND	1800	2		06/17/03 17:28	S_G	1726987
Phenanthrene	ND	750	2		06/17/03 17:28	S_G	1726987
Phenol	ND	750	2		06/17/03 17:28	S_G	1726987
Pyrene	ND	750	2		06/17/03 17:28	S_G	1726987
2-Methylphenol	ND	750	2		06/17/03 17:28	S_G	1726987
3 & 4-Methylphenol	ND	750	2		06/17/03 17:28	S_G	1726987
Surr: 2,4,6-Tribromophenol	68.0 %	19-122	2		06/17/03 17:28	S_G	1726987
Surr: 2-Fluorobiphenyl	58.8 %	30-115	2		06/17/03 17:28	S_G	1726987
Surr: 2-Fluorophenol	56.0 %	25-121	2		06/17/03 17:28	S_G	1726987
Surr: Nitrobenzene-d5	57.6 %	23-120	2		06/17/03 17:28	S_G	1726987
Surr: Phenol-d5	76.0 %	24-113	2		06/17/03 17:28	S_G	1726987
Surr: Terphenyl-d14	76.5 %	18-137	2		06/17/03 17:28	S_G	1726987
Pyridine	ND	750	2		06/17/03 17:28	S_G	1748846
Surr: 2,4,6-Tribromophenol	68.0 %	19-122	2		06/17/03 17:28	S_G	1748846
Surr: 2-Fluorobiphenyl	58.8 %	30-115	2		06/17/03 17:28	S_G	1748846
Surr: 2-Fluorophenol	56.0 %	25-121	2		06/17/03 17:28	S_G	1748846
Surr: Nitrobenzene-d5	57.6 %	23-120	2		06/17/03 17:28	S_G	1748846
Surr: Phenol-d5	76.0 %	24-113	2		06/17/03 17:28	S_G	1748846
Surr: Terphenyl-d14	76.5 %	18-137	2		06/17/03 17:28	S_G	1748846

Prep Method	Prep Date	Prep Initials
SW3550B	06/06/2003 9:51	HH

Qualifiers:

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
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Client Sample ID: SO-17303-MA-060403-195

Collected: 06/04/2003 8:20

SPL Sample ID: 03060186-01

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
TCLP VOLATILE ORGANICS			MCL	SW8260B	Units: ug/L		
1,1-Dichloroethene	ND	50	700	10	06/09/03 22:15	TL	1714162
1,2-Dichloroethane	ND	50	500	10	06/09/03 22:15	TL	1714162
2-Butanone	ND	200	200000	10	06/09/03 22:15	TL	1714162
Benzene	ND	50	500	10	06/09/03 22:15	TL	1714162
Carbon tetrachloride	ND	50	500	10	06/09/03 22:15	TL	1714162
Chlorobenzene	ND	50	100000	10	06/09/03 22:15	TL	1714162
Chloroform	ND	50	6000	10	06/09/03 22:15	TL	1714162
Tetrachloroethene	ND	50	700	10	06/09/03 22:15	TL	1714162
Trichloroethene	ND	50	500	10	06/09/03 22:15	TL	1714162
Vinyl chloride	ND	100	200	10	06/09/03 22:15	TL	1714162
Surr: 1,2-Dichloroethane-d4	110	% 62-130		10	06/09/03 22:15	TL	1714162
Surr: 4-Bromofluorobenzene	78.0	% 70-130		10	06/09/03 22:15	TL	1714162
Surr: Toluene-d8	116	% 74-122		10	06/09/03 22:15	TL	1714162

Leach Method	Leachate Date	Leach Initials
SW1311	06/07/2003 13:55	E_S

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Client Sample ID: SO-17303-MA-060403-195

Collected: 06/04/2003 8:20

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Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B			MCL	SW8260B	Units: ug/Kg-dry		
1,1,1-Trichloroethane	ND	57	50		06/17/03 3:12	C_V	1724467
1,1,2,2-Tetrachloroethane	ND	110	50		06/17/03 3:12	C_V	1724467
1,1,2-Trichloroethane	ND	57	50		06/17/03 3:12	C_V	1724467
1,1-Dichloroethane	ND	57	50		06/17/03 3:12	C_V	1724467
1,1-Dichloroethene	ND	57	50		06/17/03 3:12	C_V	1724467
1,2,4-Trichlorobenzene	ND	280	50		06/17/03 3:12	C_V	1724467
1,2-Dibromo-3-chloropropane	ND	280	50		06/17/03 3:12	C_V	1724467
1,2-Dibromoethane	ND	280	50		06/17/03 3:12	C_V	1724467
1,2-Dichlorobenzene	ND	110	50		06/17/03 3:12	C_V	1724467
1,2-Dichloroethane	ND	57	50		06/17/03 3:12	C_V	1724467
1,2-Dichloropropane	ND	57	50		06/17/03 3:12	C_V	1724467
1,3-Dichlorobenzene	ND	110	50		06/17/03 3:12	C_V	1724467
1,4-Dichlorobenzene	320	110	50		06/17/03 3:12	C_V	1724467
2-Butanone	ND	850	50		06/17/03 3:12	C_V	1724467
2-Hexanone	ND	2800	50		06/17/03 3:12	C_V	1724467
4-Methyl-2-pentanone	ND	2800	50		06/17/03 3:12	C_V	1724467
Acetone	1400	850	50		06/17/03 3:12	C_V	1724467
Benzene	ND	57	50		06/17/03 3:12	C_V	1724467
Bromodichloromethane	ND	110	50		06/17/03 3:12	C_V	1724467
Bromoform	ND	110	50		06/17/03 3:12	C_V	1724467
Bromomethane	ND	280	50		06/17/03 3:12	C_V	1724467
Carbon disulfide	ND	280	50		06/17/03 3:12	C_V	1724467
Carbon tetrachloride	ND	57	50		06/17/03 3:12	C_V	1724467
Chlorobenzene	460	57	50		06/17/03 3:12	C_V	1724467
Chloroethane	ND	280	50		06/17/03 3:12	C_V	1724467
Chloroform	ND	57	50		06/17/03 3:12	C_V	1724467
Chloromethane	ND	280	50		06/17/03 3:12	C_V	1724467
Cyclohexane	1100 J	1400	50		06/17/03 3:12	C_V	1724467
Dibromochloromethane	ND	57	50		06/17/03 3:12	C_V	1724467
Dichlorodifluoromethane	ND	110	50		06/17/03 3:12	C_V	1724467
Ethylbenzene	10000	230	200		06/17/03 17:00	C_V	1724942
Freon-113	ND	280	50		06/17/03 3:12	C_V	1724467
Isopropylbenzene	7800	280	50		06/17/03 3:12	C_V	1724467
Methyl acetate	ND	1400	50		06/17/03 3:12	C_V	1724467
Methyl tert-butyl ether	ND	280	50		06/17/03 3:12	C_V	1724467
Methylcyclohexane	7200	570	50		06/17/03 3:12	C_V	1724467
Methylene chloride	ND	280	50		06/17/03 3:12	C_V	1724467
Styrene	ND	57	50		06/17/03 3:12	C_V	1724467
Tetrachloroethene	ND	57	50		06/17/03 3:12	C_V	1724467
Toluene	ND	110	50		06/17/03 3:12	C_V	1724467

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Collected: 06/04/2003 8:20

SPL Sample ID: 03060186-01

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Trichloroethene	ND	57	50		06/17/03 3:12	C_V	1724467
Trichlorofluoromethane	ND	110	50		06/17/03 3:12	C_V	1724467
Vinyl chloride	ND	110	50		06/17/03 3:12	C_V	1724467
cis-1,2-Dichloroethene	ND	57	50		06/17/03 3:12	C_V	1724467
cis-1,3-Dichloropropene	ND	57	50		06/17/03 3:12	C_V	1724467
trans-1,2-Dichloroethene	ND	57	50		06/17/03 3:12	C_V	1724467
trans-1,3-Dichloropropene	ND	57	50		06/17/03 3:12	C_V	1724467
Xylenes, Total	18700	170	50		06/17/03 3:12	C_V	1724467
1,2-Dichloroethene (total)	ND	57	50		06/17/03 3:12	C_V	1724467
1,3-Dichloropropene, Total	ND	57	50		06/17/03 3:12	C_V	1724467
Surr: 4-Bromofluorobenzene	84.0	% 62-130	50		06/17/03 3:12	C_V	1724467
Surr: 4-Bromofluorobenzene	93.0	% 62-130	200		06/17/03 17:00	C_V	1724942
Surr: Toluene-d8	99.0	% 70-140	200		06/17/03 17:00	C_V	1724942
Surr: Toluene-d8	96.0	% 70-140	50		06/17/03 3:12	C_V	1724467
Surr: 1,2-Dichloroethane-d4	100	% 64-130	50		06/17/03 3:12	C_V	1724467
Surr: 1,2-Dichloroethane-d4	95.0	% 64-130	200		06/17/03 17:00	C_V	1724942

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-196

Collected: 06/04/2003 11:00

SPL Sample ID: 03060186-02

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
MERCURY, TOTAL			MCL	SW7471A	Units: mg/Kg-dry		
Mercury	ND	0.13	1		06/13/03 13:49	R_T	1718139

Prep Method	Prep Date	Prep Initials
SW7471A	06/13/2003 10:20	R_T

METALS BY METHOD 6010B, TOTAL			MCL	SW6010B	Units: mg/Kg-dry		
Antimony	8.78	0.64		1	06/12/03 9:03	NS	1716405
Chromium	27.2	0.64		1	06/12/03 9:03	NS	1716405
Cobalt	2.45	0.64		1	06/12/03 9:03	NS	1716405
Lead	15.1	1.3		1	06/12/03 9:03	NS	1716405
Manganese	173	1.3		1	06/12/03 9:03	NS	1716405
Nickel	6.37	1.3		1	06/12/03 9:03	NS	1716405
Silver	ND	0.64		1	06/12/03 21:45	NS	1717578
Thallium	4.43	0.64		1	06/12/03 9:03	NS	1716405
Zinc	49.2	1.3		1	06/12/03 9:03	NS	1716405
Aluminum	2620	13		1	06/24/03 11:55	MW	1735711
Barium	15.9	1.3		1	06/15/03 8:21	EG	1720724
Calcium	20000	13		1	06/18/03 15:15	MW	1728454
Copper	6.47	1.3		1	06/15/03 8:21	EG	1720724
Iron	5990	2.6		1	06/15/03 8:21	EG	1720724
Magnesium	4530	13		1	06/24/03 11:55	MW	1735711
Potassium	299	260		1	06/24/03 11:55	MW	1735711
Sodium	ND	64		1	06/24/03 11:55	MW	1735711
Vanadium	8.56	1.3		1	06/15/03 8:21	EG	1720724

Prep Method	Prep Date	Prep Initials
SW3050B	06/10/2003 12:20	MED

METALS BY METHOD 6020, TOTAL			MCL	SW6020	Units: mg/Kg-dry		
Arsenic	1.81	0.13		1	06/23/03 21:29	EG	1735187
Beryllium	ND	0.26		1	06/23/03 21:29	EG	1735187
Cadmium	0.409	0.064		1	06/23/03 21:29	EG	1735187
Selenium	ND	0.26		1	06/23/03 21:29	EG	1735187

Prep Method	Prep Date	Prep Initials
SW3050B	06/20/2003 14:05	MED

PERCENT MOISTURE			MCL	D2216	Units: wt%		
Percent Moisture	21.9	0		1	06/09/03 19:00	DP	1711270

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-196

Collected: 06/04/2003 11:00

SPL Sample ID: 03060186-02

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
POLYCHLORINATED BIPHENYLS BY METHOD 8082			MCL	SW8082	Units: ug/Kg-dry		
Aroclor 1016	ND	420	10		06/11/03 19:31	AR	1716330
Aroclor 1221	ND	420	10		06/11/03 19:31	AR	1716330
Aroclor 1232	ND	420	10		06/11/03 19:31	AR	1716330
Aroclor 1242	ND	420	10		06/11/03 19:31	AR	1716330
Aroclor 1248	ND	420	10		06/11/03 19:31	AR	1716330
Aroclor 1254	ND	420	10		06/11/03 19:31	AR	1716330
Aroclor 1260	ND	420	10		06/11/03 19:31	AR	1716330
Surr: Tetrachloro-m-xylene	72.5	% 40-130	10		06/11/03 19:31	AR	1716330
Surr: Decachlorobiphenyl	94.4	% 26-161	10		06/11/03 19:31	AR	1716330

Prep Method	Prep Date	Prep Initials
SW3550B	06/09/2003 12:41	HH

Qualifiers: ND/U - Not Detected at the Reporting Limit
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-196

Collected: 06/04/2003 11:00

SPL Sample ID: 03060186-02

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C			MCL	SW8270C	Units: ug/Kg-dry		
2,4,5-Trichlorophenol	ND	420	1		06/17/03 18:00	S_G	1726989
2,4,6-Trichlorophenol	ND	420	1		06/17/03 18:00	S_G	1726989
2,4-Dichlorophenol	ND	420	1		06/17/03 18:00	S_G	1726989
2,4-Dimethylphenol	ND	420	1		06/17/03 18:00	S_G	1726989
2,4-Dinitrophenol	ND	2200	1		06/17/03 18:00	S_G	1726989
2,4-Dinitrotoluene	ND	420	1		06/17/03 18:00	S_G	1726989
2,6-Dinitrotoluene	ND	420	1		06/17/03 18:00	S_G	1726989
2-Chloronaphthalene	ND	420	1		06/17/03 18:00	S_G	1726989
2-Chlorophenol	ND	420	1		06/17/03 18:00	S_G	1726989
2-Methylnaphthalene	ND	420	1		06/17/03 18:00	S_G	1726989
2-Nitroaniline	ND	2200	1		06/17/03 18:00	S_G	1726989
2-Nitrophenol	ND	420	1		06/17/03 18:00	S_G	1726989
3,3'-Dichlorobenzidine	ND	2600	1		06/17/03 18:00	S_G	1726989
3-Nitroaniline	ND	2200	1		06/17/03 18:00	S_G	1726989
4,6-Dinitro-2-methylphenol	ND	2200	1		06/17/03 18:00	S_G	1726989
4-Bromophenyl phenyl ether	ND	420	1		06/17/03 18:00	S_G	1726989
4-Chloro-3-methylphenol	ND	420	1		06/17/03 18:00	S_G	1726989
4-Chloroaniline	ND	2200	1		06/17/03 18:00	S_G	1726989
4-Chlorophenyl phenyl ether	ND	420	1		06/17/03 18:00	S_G	1726989
4-Nitroaniline	ND	2200	1		06/17/03 18:00	S_G	1726989
4-Nitrophenol	ND	2200	1		06/17/03 18:00	S_G	1726989
Acenaphthene	ND	420	1		06/17/03 18:00	S_G	1726989
Acenaphthylene	ND	420	1		06/17/03 18:00	S_G	1726989
Acetophenone	ND	420	1		06/17/03 18:00	S_G	1726989
Anthracene	ND	420	1		06/17/03 18:00	S_G	1726989
Atrazine	ND	190	1		06/17/03 18:00	S_G	1726989
Benz(a)anthracene	ND	420	1		06/17/03 18:00	S_G	1726989
Benzaldehyde	ND	420	1		06/17/03 18:00	S_G	1726989
Benzo(a)pyrene	ND	420	1		06/17/03 18:00	S_G	1726989
Benzo(b)fluoranthene	ND	420	1		06/17/03 18:00	S_G	1726989
Benzo(g,h,i)perylene	ND	420	1		06/17/03 18:00	S_G	1726989
Benzo(k)fluoranthene	ND	420	1		06/17/03 18:00	S_G	1726989
Biphenyl	ND	420	1		06/17/03 18:00	S_G	1726989
Bis(2-chloroethoxy)methane	ND	420	1		06/17/03 18:00	S_G	1726989
Bis(2-chloroethyl)ether	ND	130	1		06/17/03 18:00	S_G	1726989
Bis(2-chloroisopropyl)ether	ND	420	1		06/17/03 18:00	S_G	1726989
Bis(2-ethylhexyl)phthalate	ND	420	1		06/17/03 18:00	S_G	1726989
Butyl benzyl phthalate	ND	420	1		06/17/03 18:00	S_G	1726989
Caprolactam	ND	420	1		06/17/03 18:00	S_G	1726989
Carbazole	ND	420	1		06/17/03 18:00	S_G	1726989

Qualifiers: ND/U - Not Detected at the Reporting Limit
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-196

Collected: 06/04/2003 11:00

SPL Sample ID: 03060186-02

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Chrysene	ND	420	1		06/17/03 18:00	S_G	1726989
Di-n-butyl phthalate	ND	420	1		06/17/03 18:00	S_G	1726989
Di-n-octyl phthalate	ND	420	1		06/17/03 18:00	S_G	1726989
Dibenz(a,h)anthracene	ND	420	1		06/17/03 18:00	S_G	1726989
Dibenzofuran	ND	420	1		06/17/03 18:00	S_G	1726989
Diethyl phthalate	ND	420	1		06/17/03 18:00	S_G	1726989
Dimethyl phthalate	ND	420	1		06/17/03 18:00	S_G	1726989
Fluoranthene	ND	420	1		06/17/03 18:00	S_G	1726989
Fluorene	ND	420	1		06/17/03 18:00	S_G	1726989
Hexachlorobenzene	ND	420	1		06/17/03 18:00	S_G	1726989
Hexachlorobutadiene	ND	420	1		06/17/03 18:00	S_G	1726989
Hexachlorocyclopentadiene	ND	420	1		06/17/03 18:00	S_G	1726989
Hexachloroethane	ND	420	1		06/17/03 18:00	S_G	1726989
Indeno(1,2,3-cd)pyrene	ND	420	1		06/17/03 18:00	S_G	1726989
Isophorone	ND	420	1		06/17/03 18:00	S_G	1726989
N-Nitrosodi-n-propylamine	ND	420	1		06/17/03 18:00	S_G	1726989
N-Nitrosodiphenylamine	ND	420	1		06/17/03 18:00	S_G	1726989
Naphthalene	ND	420	1		06/17/03 18:00	S_G	1726989
Nitrobenzene	ND	260	1		06/17/03 18:00	S_G	1726989
Pentachlorophenol	ND	1000	1		06/17/03 18:00	S_G	1726989
Phenanthrene	ND	420	1		06/17/03 18:00	S_G	1726989
Phenol	ND	420	1		06/17/03 18:00	S_G	1726989
Pyrene	ND	420	1		06/17/03 18:00	S_G	1726989
2-Methylphenol	ND	420	1		06/17/03 18:00	S_G	1726989
3 & 4-Methylphenol	ND	420	1		06/17/03 18:00	S_G	1726989
Surr: 2,4,6-Tribromophenol	88.0 %	19-122	1		06/17/03 18:00	S_G	1726989
Surr: 2-Fluorobiphenyl	82.4 %	30-115	1		06/17/03 18:00	S_G	1726989
Surr: 2-Fluorophenol	72.0 %	25-121	1		06/17/03 18:00	S_G	1726989
Surr: Nitrobenzene-d5	82.4 %	23-120	1		06/17/03 18:00	S_G	1726989
Surr: Phenol-d5	96.0 %	24-113	1		06/17/03 18:00	S_G	1726989
Surr: Terphenyl-d14	82.4 %	18-137	1		06/17/03 18:00	S_G	1726989
Pyridine	ND	420	1		06/17/03 18:00	S_G	1748847
Surr: 2,4,6-Tribromophenol	88.0 %	19-122	1		06/17/03 18:00	S_G	1748847
Surr: 2-Fluorobiphenyl	82.4 %	30-115	1		06/17/03 18:00	S_G	1748847
Surr: 2-Fluorophenol	72.0 %	25-121	1		06/17/03 18:00	S_G	1748847
Surr: Nitrobenzene-d5	82.4 %	23-120	1		06/17/03 18:00	S_G	1748847
Surr: Phenol-d5	96.0 %	24-113	1		06/17/03 18:00	S_G	1748847
Surr: Terphenyl-d14	82.4 %	18-137	1		06/17/03 18:00	S_G	1748847

Prep Method	Prep Date	Prep Initials
SW3550B	06/06/2003 9:51	HH

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
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J - Estimated Value between MDL and PQL

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-196

Collected: 06/04/2003 11:00

SPL Sample ID: 03060186-02

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B			MCL	SW8260B	Units: ug/Kg-dry		
1,1,1-Trichloroethane	ND	64	50		06/17/03 2:19	C_V	1724465
1,1,2,2-Tetrachloroethane	ND	130	50		06/17/03 2:19	C_V	1724465
1,1,2-Trichloroethane	ND	64	50		06/17/03 2:19	C_V	1724465
1,1-Dichloroethane	ND	64	50		06/17/03 2:19	C_V	1724465
1,1-Dichloroethene	ND	64	50		06/17/03 2:19	C_V	1724465
1,2,4-Trichlorobenzene	ND	320	50		06/17/03 2:19	C_V	1724465
1,2-Dibromo-3-chloropropane	ND	320	50		06/17/03 2:19	C_V	1724465
1,2-Dibromoethane	ND	320	50		06/17/03 2:19	C_V	1724465
1,2-Dichlorobenzene	ND	130	50		06/17/03 2:19	C_V	1724465
1,2-Dichloroethane	ND	64	50		06/17/03 2:19	C_V	1724465
1,2-Dichloropropane	ND	64	50		06/17/03 2:19	C_V	1724465
1,3-Dichlorobenzene	ND	130	50		06/17/03 2:19	C_V	1724465
1,4-Dichlorobenzene	ND	130	50		06/17/03 2:19	C_V	1724465
2-Butanone	ND	960	50		06/17/03 2:19	C_V	1724465
2-Hexanone	ND	3200	50		06/17/03 2:19	C_V	1724465
4-Methyl-2-pentanone	ND	3200	50		06/17/03 2:19	C_V	1724465
Acetone	ND	960	50		06/17/03 2:19	C_V	1724465
Benzene	ND	64	50		06/17/03 2:19	C_V	1724465
Bromodichloromethane	ND	130	50		06/17/03 2:19	C_V	1724465
Bromoform	ND	130	50		06/17/03 2:19	C_V	1724465
Bromomethane	ND	320	50		06/17/03 2:19	C_V	1724465
Carbon disulfide	ND	320	50		06/17/03 2:19	C_V	1724465
Carbon tetrachloride	ND	64	50		06/17/03 2:19	C_V	1724465
Chlorobenzene	ND	64	50		06/17/03 2:19	C_V	1724465
Chloroethane	ND	320	50		06/17/03 2:19	C_V	1724465
Chloroform	ND	64	50		06/17/03 2:19	C_V	1724465
Chloromethane	ND	320	50		06/17/03 2:19	C_V	1724465
Cyclohexane	ND	1500	50		06/17/03 2:19	C_V	1724465
Dibromochloromethane	ND	64	50		06/17/03 2:19	C_V	1724465
Dichlorodifluoromethane	ND	130	50		06/17/03 2:19	C_V	1724465
Ethylbenzene	ND	64	50		06/17/03 2:19	C_V	1724465
Freon-113	ND	320	50		06/17/03 2:19	C_V	1724465
Isopropylbenzene	ND	320	50		06/17/03 2:19	C_V	1724465
Methyl acetate	ND	1500	50		06/17/03 2:19	C_V	1724465
Methyl tert-butyl ether	ND	320	50		06/17/03 2:19	C_V	1724465
Methylcyclohexane	ND	640	50		06/17/03 2:19	C_V	1724465
Methylene chloride	ND	320	50		06/17/03 2:19	C_V	1724465
Styrene	ND	64	50		06/17/03 2:19	C_V	1724465
Tetrachloroethene	ND	64	50		06/17/03 2:19	C_V	1724465
Toluene	ND	130	50		06/17/03 2:19	C_V	1724465

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-196

Collected: 06/04/2003 11:00

SPL Sample ID: 03060186-02

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Trichloroethene	1400	64	50		06/17/03 2:19	C_V	1724465
Trichlorofluoromethane	ND	130	50		06/17/03 2:19	C_V	1724465
Vinyl chloride	ND	130	50		06/17/03 2:19	C_V	1724465
cis-1,2-Dichloroethene	ND	64	50		06/17/03 2:19	C_V	1724465
cis-1,3-Dichloropropene	ND	64	50		06/17/03 2:19	C_V	1724465
trans-1,2-Dichloroethene	ND	64	50		06/17/03 2:19	C_V	1724465
trans-1,3-Dichloropropene	ND	64	50		06/17/03 2:19	C_V	1724465
Xylenes, Total	ND	190	50		06/17/03 2:19	C_V	1724465
1,2-Dichloroethene (total)	ND	64	50		06/17/03 2:19	C_V	1724465
1,3-Dichloropropene, Total	ND	64	50		06/17/03 2:19	C_V	1724465
Surr: 4-Bromofluorobenzene	96.0	% 62-130	50		06/17/03 2:19	C_V	1724465
Surr: Toluene-d8	100	% 70-140	50		06/17/03 2:19	C_V	1724465
Surr: 1,2-Dichloroethane-d4	100	% 64-130	50		06/17/03 2:19	C_V	1724465

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-197

Collected: 06/04/2003 15:45

SPL Sample ID: 03060186-03

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
MERCURY, TOTAL			MCL	SW7471A	Units: mg/Kg-dry		
Mercury	ND	0.11	1		06/13/03 13:52	R_T	1718140

Prep Method	Prep Date	Prep Initials
SW7471A	06/13/2003 10:20	R_T

METALS BY METHOD 6010B, TOTAL			MCL	SW6010B	Units: mg/Kg-dry		
Antimony	4.96	0.54	1		06/12/03 9:08	NS	1716408
Chromium	16.5	0.54	1		06/12/03 9:08	NS	1716408
Cobalt	1.93	0.54	1		06/12/03 9:08	NS	1716408
Lead	5.16	1.1	1		06/12/03 9:08	NS	1716408
Manganese	50.7	1.1	1		06/12/03 9:08	NS	1716408
Nickel	5.16	1.1	1		06/12/03 9:08	NS	1716408
Silver	ND	0.54	1		06/12/03 21:50	NS	1717579
Thallium	3.88	0.54	1		06/12/03 9:08	NS	1716408
Zinc	16.5	1.1	1		06/12/03 9:08	NS	1716408
Aluminum	2180	11	1		06/24/03 11:59	MW	1735712
Barium	7.79	1.1	1		06/15/03 8:26	EG	1720725
Calcium	1100	11	1		06/18/03 15:20	MW	1728455
Copper	4.95	1.1	1		06/15/03 8:26	EG	1720725
Iron	4730	2.2	1		06/15/03 8:26	EG	1720725
Magnesium	1060	11	1		06/24/03 11:59	MW	1735712
Potassium	224	220	1		06/24/03 11:59	MW	1735712
Sodium	196	54	1		06/24/03 11:59	MW	1735712
Vanadium	7.7	1.1	1		06/15/03 8:26	EG	1720725

Prep Method	Prep Date	Prep Initials
SW3050B	06/10/2003 12:20	MED

METALS BY METHOD 6020, TOTAL			MCL	SW6020	Units: mg/Kg-dry		
Arsenic	1.8	0.11	1		06/23/03 21:38	EG	1735188
Beryllium	ND	0.22	1		06/23/03 21:38	EG	1735188
Cadmium	0.146	0.054	1		06/23/03 21:38	EG	1735188
Selenium	ND	0.22	1		06/23/03 21:38	EG	1735188

Prep Method	Prep Date	Prep Initials
SW3050B	06/20/2003 14:05	MED

PERCENT MOISTURE			MCL	D2216	Units: wt%		
Percent Moisture	7.8	0	1		06/09/03 19:00	DP	1711271

Qualifiers: ND/U - Not Detected at the Reporting Limit
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MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-197

Collected: 06/04/2003 15:45

SPL Sample ID: 03060186-03

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
POLYCHLORINATED BIPHENYLS BY METHOD 8082			MCL	SW8082	Units: ug/Kg-dry		
Aroclor 1016	ND	360		5	06/11/03 19:48	AR	1716331
Aroclor 1221	ND	360		5	06/11/03 19:48	AR	1716331
Aroclor 1232	ND	360		5	06/11/03 19:48	AR	1716331
Aroclor 1242	ND	360		5	06/11/03 19:48	AR	1716331
Aroclor 1248	ND	360		5	06/11/03 19:48	AR	1716331
Aroclor 1254	ND	360		5	06/11/03 19:48	AR	1716331
Aroclor 1260	ND	360		5	06/11/03 19:48	AR	1716331
Surr: Tetrachloro-m-xylene	70.6 %	40-130		5	06/11/03 19:48	AR	1716331
Surr: Decachlorobiphenyl	84.4 %	26-161		5	06/11/03 19:48	AR	1716331

Prep Method	Prep Date	Prep Initials
SW3550B	06/09/2003 12:41	HH

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-197

Collected: 06/04/2003 15:45

SPL Sample ID: 03060186-03

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C			MCL	SW8270C	Units: ug/Kg-dry		
2,4,5-Trichlorophenol	ND	720	2		06/17/03 18:31	S_G	1731571
2,4,6-Trichlorophenol	ND	720	2		06/17/03 18:31	S_G	1731571
2,4-Dichlorophenol	ND	720	2		06/17/03 18:31	S_G	1731571
2,4-Dimethylphenol	ND	720	2		06/17/03 18:31	S_G	1731571
2,4-Dinitrophenol	ND	3700	2		06/17/03 18:31	S_G	1731571
2,4-Dinitrotoluene	ND	720	2		06/17/03 18:31	S_G	1731571
2,6-Dinitrotoluene	ND	720	2		06/17/03 18:31	S_G	1731571
2-Chloronaphthalene	ND	720	2		06/17/03 18:31	S_G	1731571
2-Chlorophenol	ND	720	2		06/17/03 18:31	S_G	1731571
2-Methylnaphthalene	12000	1400	4		06/19/03 18:59	S_G	1731652
2-Nitroaniline	ND	3700	2		06/17/03 18:31	S_G	1731571
2-Nitrophenol	ND	720	2		06/17/03 18:31	S_G	1731571
3,3'-Dichlorobenzidine	ND	4300	2		06/17/03 18:31	S_G	1731571
3-Nitroaniline	ND	3700	2		06/17/03 18:31	S_G	1731571
4,6-Dinitro-2-methylphenol	ND	3700	2		06/17/03 18:31	S_G	1731571
4-Bromophenyl phenyl ether	ND	720	2		06/17/03 18:31	S_G	1731571
4-Chloro-3-methylphenol	ND	720	2		06/17/03 18:31	S_G	1731571
4-Chloroaniline	ND	3700	2		06/17/03 18:31	S_G	1731571
4-Chlorophenyl phenyl ether	ND	720	2		06/17/03 18:31	S_G	1731571
4-Nitroaniline	ND	3700	2		06/17/03 18:31	S_G	1731571
4-Nitrophenol	ND	3700	2		06/17/03 18:31	S_G	1731571
Acenaphthene	ND	720	2		06/17/03 18:31	S_G	1731571
Acenaphthylene	ND	720	2		06/17/03 18:31	S_G	1731571
Acetophenone	ND	720	2		06/17/03 18:31	S_G	1731571
Anthracene	ND	720	2		06/17/03 18:31	S_G	1731571
Atrazine	ND	330	2		06/17/03 18:31	S_G	1731571
Benz(a)anthracene	ND	720	2		06/17/03 18:31	S_G	1731571
Benzaldehyde	ND	720	2		06/17/03 18:31	S_G	1731571
Benzo(a)pyrene	ND	720	2		06/17/03 18:31	S_G	1731571
Benzo(b)fluoranthene	ND	720	2		06/17/03 18:31	S_G	1731571
Benzo(g,h,i)perylene	ND	720	2		06/17/03 18:31	S_G	1731571
Benzo(k)fluoranthene	ND	720	2		06/17/03 18:31	S_G	1731571
Biphenyl	980	720	2		06/17/03 18:31	S_G	1731571
Bis(2-chloroethoxy)methane	ND	720	2		06/17/03 18:31	S_G	1731571
Bis(2-chloroethyl)ether	ND	220	2		06/17/03 18:31	S_G	1731571
Bis(2-chloroisopropyl)ether	ND	720	2		06/17/03 18:31	S_G	1731571
Bis(2-ethylhexyl)phthalate	ND	720	2		06/17/03 18:31	S_G	1731571
Butyl benzyl phthalate	ND	720	2		06/17/03 18:31	S_G	1731571
Caprolactam	ND	720	2		06/17/03 18:31	S_G	1731571
Carbazole	ND	720	2		06/17/03 18:31	S_G	1731571

Qualifiers: ND/U - Not Detected at the Reporting Limit
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-197

Collected: 06/04/2003 15:45

SPL Sample ID: 03060186-03

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Chrysene	ND	720	2		06/17/03 18:31	S_G	1731571
Di-n-butyl phthalate	ND	720	2		06/17/03 18:31	S_G	1731571
Di-n-octyl phthalate	ND	720	2		06/17/03 18:31	S_G	1731571
Dibenz(a,h)anthracene	ND	720	2		06/17/03 18:31	S_G	1731571
Dibenzofuran	1100	720	2		06/17/03 18:31	S_G	1731571
Diethyl phthalate	ND	720	2		06/17/03 18:31	S_G	1731571
Dimethyl phthalate	ND	720	2		06/17/03 18:31	S_G	1731571
Fluoranthene	ND	720	2		06/17/03 18:31	S_G	1731571
Fluorene	2300	720	2		06/17/03 18:31	S_G	1731571
Hexachlorobenzene	ND	720	2		06/17/03 18:31	S_G	1731571
Hexachlorobutadiene	ND	720	2		06/17/03 18:31	S_G	1731571
Hexachlorocyclopentadiene	ND	720	2		06/17/03 18:31	S_G	1731571
Hexachloroethane	ND	720	2		06/17/03 18:31	S_G	1731571
Indeno(1,2,3-cd)pyrene	ND	720	2		06/17/03 18:31	S_G	1731571
Isophorone	ND	720	2		06/17/03 18:31	S_G	1731571
N-Nitrosodi-n-propylamine	ND	720	2		06/17/03 18:31	S_G	1731571
N-Nitrosodiphenylamine	ND	720	2		06/17/03 18:31	S_G	1731571
Naphthalene	3700	720	2		06/17/03 18:31	S_G	1731571
Nitrobenzene	ND	430	2		06/17/03 18:31	S_G	1731571
Pentachlorophenol	ND	1700	2		06/17/03 18:31	S_G	1731571
Phenanthrene	4700	1400	4		06/19/03 18:59	S_G	1731652
Phenol	ND	720	2		06/17/03 18:31	S_G	1731571
Pyrene	ND	720	2		06/17/03 18:31	S_G	1731571
2-Methylphenol	ND	720	2		06/17/03 18:31	S_G	1731571
3 & 4-Methylphenol	ND	720	2		06/17/03 18:31	S_G	1731571
Surr: 2,4,6-Tribromophenol	100	% 19-122	2		06/17/03 18:31	S_G	1731571
Surr: 2,4,6-Tribromophenol	80.0	% 19-122	4		06/19/03 18:59	S_G	1731652
Surr: 2-Fluorobiphenyl	34.1	% 30-115	4		06/19/03 18:59	S_G	1731652
Surr: 2-Fluorobiphenyl	58.8	% 30-115	2		06/17/03 18:31	S_G	1731571
Surr: 2-Fluorophenol	68.0	% 25-121	2		06/17/03 18:31	S_G	1731571
Surr: 2-Fluorophenol	60.0	% 25-121	4		06/19/03 18:59	S_G	1731652
Surr: Nitrobenzene-d5	82.4	% 23-120	2		06/17/03 18:31	S_G	1731571
Surr: Nitrobenzene-d5	135 MI	% 23-120	4		06/19/03 18:59	S_G	1731652
Surr: Phenol-d5	72.0	% 24-113	2		06/17/03 18:31	S_G	1731571
Surr: Phenol-d5	72.0	% 24-113	4		06/19/03 18:59	S_G	1731652
Surr: Terphenyl-d14	64.7	% 18-137	2		06/17/03 18:31	S_G	1731571
Surr: Terphenyl-d14	76.5	% 18-137	4		06/19/03 18:59	S_G	1731652
Pyridine	ND	720	2		06/17/03 18:31	S_G	1748848
Surr: 2,4,6-Tribromophenol	100	% 19-122	2		06/17/03 18:31	S_G	1748848
Surr: 2-Fluorobiphenyl	58.8	% 30-115	2		06/17/03 18:31	S_G	1748848
Surr: 2-Fluorophenol	68.0	% 25-121	2		06/17/03 18:31	S_G	1748848

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-197

Collected: 06/04/2003 15:45

SPL Sample ID: 03060186-03

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Surr: Nitrobenzene-d5	82.4	% 23-120	2		06/17/03 18:31	S_G	1748848
Surr: Phenol-d5	72.0	% 24-113	2		06/17/03 18:31	S_G	1748848
Surr: Terphenyl-d14	64.7	% 18-137	2		06/17/03 18:31	S_G	1748848

Prep Method	Prep Date	Prep Initials
SW3550B	06/06/2003 9:51	HH

TCLP VOLATILE ORGANICS				MCL	SW8260B	Units: ug/L	
1,1-Dichloroethene	ND	50	700	10	06/09/03 22:42	TL	1714163
1,2-Dichloroethane	ND	50	500	10	06/09/03 22:42	TL	1714163
2-Butanone	ND	200	200000	10	06/09/03 22:42	TL	1714163
Benzene	ND	50	500	10	06/09/03 22:42	TL	1714163
Carbon tetrachloride	ND	50	500	10	06/09/03 22:42	TL	1714163
Chlorobenzene	ND	50	100000	10	06/09/03 22:42	TL	1714163
Chloroform	ND	50	6000	10	06/09/03 22:42	TL	1714163
Tetrachloroethene	ND	50	700	10	06/09/03 22:42	TL	1714163
Trichloroethene	ND	50	500	10	06/09/03 22:42	TL	1714163
Vinyl chloride	ND	100	200	10	06/09/03 22:42	TL	1714163
Surr: 1,2-Dichloroethane-d4	100	% 62-130		10	06/09/03 22:42	TL	1714163
Surr: 4-Bromofluorobenzene	80.0	% 70-130		10	06/09/03 22:42	TL	1714163
Surr: Toluene-d8	118	% 74-122		10	06/09/03 22:42	TL	1714163

Leach Method	Leachate Date	Leach Initials
SW1311	06/07/2003 13:55	E_S

Qualifiers: ND/U - Not Detected at the Reporting Limit
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-197

Collected: 06/04/2003 15:45

SPL Sample ID: 03060186-03

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B		MCL	SW8260B	Units: ug/Kg-dry			
1,1,1-Trichloroethane	ND	54	50		06/17/03 17:27	C_V	1724943
1,1,2,2-Tetrachloroethane	ND	110	50		06/17/03 17:27	C_V	1724943
1,1,2-Trichloroethane	ND	54	50		06/17/03 17:27	C_V	1724943
1,1-Dichloroethane	ND	54	50		06/17/03 17:27	C_V	1724943
1,1-Dichloroethene	ND	54	50		06/17/03 17:27	C_V	1724943
1,2,4-Trichlorobenzene	ND	270	50		06/17/03 17:27	C_V	1724943
1,2-Dibromo-3-chloropropane	ND	270	50		06/17/03 17:27	C_V	1724943
1,2-Dibromoethane	ND	270	50		06/17/03 17:27	C_V	1724943
1,2-Dichlorobenzene	ND	110	50		06/17/03 17:27	C_V	1724943
1,2-Dichloroethane	ND	54	50		06/17/03 17:27	C_V	1724943
1,2-Dichloropropane	ND	54	50		06/17/03 17:27	C_V	1724943
1,3-Dichlorobenzene	ND	110	50		06/17/03 17:27	C_V	1724943
1,4-Dichlorobenzene	ND	110	50		06/17/03 17:27	C_V	1724943
2-Butanone	ND	810	50		06/17/03 17:27	C_V	1724943
2-Hexanone	ND	2700	50		06/17/03 17:27	C_V	1724943
4-Methyl-2-pentanone	ND	2700	50		06/17/03 17:27	C_V	1724943
Acetone	750 J	810	50		06/17/03 17:27	C_V	1724943
Benzene	ND	54	50		06/17/03 17:27	C_V	1724943
Bromodichloromethane	ND	110	50		06/17/03 17:27	C_V	1724943
Bromoform	ND	110	50		06/17/03 17:27	C_V	1724943
Bromomethane	ND	270	50		06/17/03 17:27	C_V	1724943
Carbon disulfide	ND	270	50		06/17/03 17:27	C_V	1724943
Carbon tetrachloride	ND	54	50		06/17/03 17:27	C_V	1724943
Chlorobenzene	ND	54	50		06/17/03 17:27	C_V	1724943
Chloroethane	ND	270	50		06/17/03 17:27	C_V	1724943
Chloroform	ND	54	50		06/17/03 17:27	C_V	1724943
Chloromethane	ND	270	50		06/17/03 17:27	C_V	1724943
Cyclohexane	120 J	1300	50		06/17/03 17:27	C_V	1724943
Dibromochloromethane	ND	54	50		06/17/03 17:27	C_V	1724943
Dichlorodifluoromethane	ND	110	50		06/17/03 17:27	C_V	1724943
Ethylbenzene	180	54	50		06/17/03 17:27	C_V	1724943
Freon-113	ND	270	50		06/17/03 17:27	C_V	1724943
Isopropylbenzene	ND	270	50		06/17/03 17:27	C_V	1724943
Methyl acetate	ND	1300	50		06/17/03 17:27	C_V	1724943
Methyl tert-butyl ether	ND	270	50		06/17/03 17:27	C_V	1724943
Methylcyclohexane	670	540	50		06/17/03 17:27	C_V	1724943
Methylene chloride	ND	270	50		06/17/03 17:27	C_V	1724943
Styrene	ND	54	50		06/17/03 17:27	C_V	1724943
Tetrachloroethene	ND	54	50		06/17/03 17:27	C_V	1724943
Toluene	ND	110	50		06/17/03 17:27	C_V	1724943

Qualifiers: ND/U - Not Detected at the Reporting Limit
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-197

Collected: 06/04/2003 15:45

SPL Sample ID: 03060186-03

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Trichloroethene	ND	54	50		06/17/03 17:27	C_V	1724943
Trichlorofluoromethane	ND	110	50		06/17/03 17:27	C_V	1724943
Vinyl chloride	ND	110	50		06/17/03 17:27	C_V	1724943
cis-1,2-Dichloroethene	ND	54	50		06/17/03 17:27	C_V	1724943
cis-1,3-Dichloropropene	ND	54	50		06/17/03 17:27	C_V	1724943
trans-1,2-Dichloroethene	ND	54	50		06/17/03 17:27	C_V	1724943
trans-1,3-Dichloropropene	ND	54	50		06/17/03 17:27	C_V	1724943
Xylenes, Total	650	160	50		06/17/03 17:27	C_V	1724943
1,2-Dichloroethene (total)	ND	54	50		06/17/03 17:27	C_V	1724943
1,3-Dichloropropene, Total	ND	54	50		06/17/03 17:27	C_V	1724943
Surr: 4-Bromofluorobenzene	104	% 62-130	50		06/17/03 17:27	C_V	1724943
Surr: Toluene-d8	100	% 70-140	50		06/17/03 17:27	C_V	1724943
Surr: 1,2-Dichloroethane-d4	96.0	% 64-130	50		06/17/03 17:27	C_V	1724943

Qualifiers: ND/U - Not Detected at the Reporting Limit
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-198

Collected: 06/04/2003 15:30

SPL Sample ID: 03060186-04

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
MERCURY, TOTAL			MCL	SW7471A	Units: mg/Kg-dry		
Mercury	ND	0.13	1		06/13/03 13:54	R_T	1718141

Prep Method	Prep Date	Prep Initials
SW7471A	06/13/2003 10:20	R_T

METALS BY METHOD 6010B, TOTAL			MCL	SW6010B	Units: mg/Kg-dry		
Antimony	3.37	0.65		1	06/12/03 9:13	NS	1716411
Chromium	8.98	0.65		1	06/12/03 9:13	NS	1716411
Cobalt	1.26	0.65		1	06/12/03 9:13	NS	1716411
Lead	1.7	1.3		1	06/12/03 9:13	NS	1716411
Manganese	94.6	1.3		1	06/12/03 9:13	NS	1716411
Nickel	3.23	1.3		1	06/12/03 9:13	NS	1716411
Silver	ND	0.65		1	06/12/03 21:55	NS	1717580
Thallium	1.32	0.65		1	06/12/03 9:13	NS	1716411
Zinc	10.4	1.3		1	06/12/03 9:13	NS	1716411
Aluminum	945	13		1	06/24/03 12:04	MW	1735713
Barium	4.83	1.3		1	06/15/03 8:30	EG	1720726
Calcium	36800	13		1	06/18/03 15:24	MW	1728456
Copper	1.5	1.3		1	06/15/03 8:30	EG	1720726
Iron	2800	2.6		1	06/15/03 8:30	EG	1720726
Magnesium	6850	13		1	06/24/03 12:04	MW	1735713
Potassium	ND	260		1	06/24/03 12:04	MW	1735713
Sodium	238	65		1	06/24/03 12:04	MW	1735713
Vanadium	4.78	1.3		1	06/15/03 8:30	EG	1720726

Prep Method	Prep Date	Prep Initials
SW3050B	06/10/2003 12:20	MED

METALS BY METHOD 6020, TOTAL			MCL	SW6020	Units: mg/Kg-dry		
Arsenic	0.61	0.13		1	06/23/03 21:43	EG	1735189
Beryllium	ND	0.26		1	06/23/03 21:43	EG	1735189
Cadmium	ND	0.065		1	06/23/03 21:43	EG	1735189
Selenium	ND	0.26		1	06/23/03 21:43	EG	1735189

Prep Method	Prep Date	Prep Initials
SW3050B	06/20/2003 14:05	MED

PERCENT MOISTURE			MCL	D2216	Units: wt%		
Percent Moisture	22.8	0		1	06/09/03 19:00	DP	1711272

Qualifiers: ND/U - Not Detected at the Reporting Limit
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J - Estimated Value between MDL and PQL

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MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-198

Collected: 06/04/2003 15:30

SPL Sample ID: 03060186-04

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
POLYCHLORINATED BIPHENYLS BY METHOD 8082			MCL	SW8082	Units: ug/Kg-dry		
Aroclor 1016	ND	430	10		06/11/03 20:05	AR	1716332
Aroclor 1221	ND	430	10		06/11/03 20:05	AR	1716332
Aroclor 1232	ND	430	10		06/11/03 20:05	AR	1716332
Aroclor 1242	ND	430	10		06/11/03 20:05	AR	1716332
Aroclor 1248	ND	430	10		06/11/03 20:05	AR	1716332
Aroclor 1254	ND	430	10		06/11/03 20:05	AR	1716332
Aroclor 1260	ND	430	10		06/11/03 20:05	AR	1716332
Surr: Tetrachloro-m-xylene	64.1	% 40-130	10		06/11/03 20:05	AR	1716332
Surr: Decachlorobiphenyl	82.8	% 26-161	10		06/11/03 20:05	AR	1716332

Prep Method	Prep Date	Prep Initials
SW3550B	06/09/2003 12:41	HH

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-198

Collected: 06/04/2003 15:30

SPL Sample ID: 03060186-04

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C			MCL	SW8270C	Units: ug/Kg-dry		
2,4,5-Trichlorophenol	ND	430		1	06/17/03 19:02	S_G	1726993
2,4,6-Trichlorophenol	ND	430		1	06/17/03 19:02	S_G	1726993
2,4-Dichlorophenol	ND	430		1	06/17/03 19:02	S_G	1726993
2,4-Dimethylphenol	ND	430		1	06/17/03 19:02	S_G	1726993
2,4-Dinitrophenol	ND	2200		1	06/17/03 19:02	S_G	1726993
2,4-Dinitrotoluene	ND	430		1	06/17/03 19:02	S_G	1726993
2,6-Dinitrotoluene	ND	430		1	06/17/03 19:02	S_G	1726993
2-Chloronaphthalene	ND	430		1	06/17/03 19:02	S_G	1726993
2-Chlorophenol	ND	430		1	06/17/03 19:02	S_G	1726993
2-Methylnaphthalene	ND	430		1	06/17/03 19:02	S_G	1726993
2-Nitroaniline	ND	2200		1	06/17/03 19:02	S_G	1726993
2-Nitrophenol	ND	430		1	06/17/03 19:02	S_G	1726993
3,3'-Dichlorobenzidine	ND	2600		1	06/17/03 19:02	S_G	1726993
3-Nitroaniline	ND	2200		1	06/17/03 19:02	S_G	1726993
4,6-Dinitro-2-methylphenol	ND	2200		1	06/17/03 19:02	S_G	1726993
4-Bromophenyl phenyl ether	ND	430		1	06/17/03 19:02	S_G	1726993
4-Chloro-3-methylphenol	ND	430		1	06/17/03 19:02	S_G	1726993
4-Chloroaniline	ND	2200		1	06/17/03 19:02	S_G	1726993
4-Chlorophenyl phenyl ether	ND	430		1	06/17/03 19:02	S_G	1726993
4-Nitroaniline	ND	2200		1	06/17/03 19:02	S_G	1726993
4-Nitrophenol	ND	2200		1	06/17/03 19:02	S_G	1726993
Acenaphthene	ND	430		1	06/17/03 19:02	S_G	1726993
Acenaphthylene	ND	430		1	06/17/03 19:02	S_G	1726993
Acetophenone	ND	430		1	06/17/03 19:02	S_G	1726993
Anthracene	ND	430		1	06/17/03 19:02	S_G	1726993
Atrazine	ND	190		1	06/17/03 19:02	S_G	1726993
Benz(a)anthracene	ND	430		1	06/17/03 19:02	S_G	1726993
Benzaldehyde	ND	430		1	06/17/03 19:02	S_G	1726993
Benzo(a)pyrene	ND	430		1	06/17/03 19:02	S_G	1726993
Benzo(b)fluoranthene	ND	430		1	06/17/03 19:02	S_G	1726993
Benzo(g,h,i)perylene	ND	430		1	06/17/03 19:02	S_G	1726993
Benzo(k)fluoranthene	ND	430		1	06/17/03 19:02	S_G	1726993
Biphenyl	ND	430		1	06/17/03 19:02	S_G	1726993
Bis(2-chloroethoxy)methane	ND	430		1	06/17/03 19:02	S_G	1726993
Bis(2-chloroethyl)ether	ND	130		1	06/17/03 19:02	S_G	1726993
Bis(2-chloroisopropyl)ether	ND	430		1	06/17/03 19:02	S_G	1726993
Bis(2-ethylhexyl)phthalate	ND	430		1	06/17/03 19:02	S_G	1726993
Butyl benzyl phthalate	ND	430		1	06/17/03 19:02	S_G	1726993
Caprolactam	ND	430		1	06/17/03 19:02	S_G	1726993
Carbazole	ND	430		1	06/17/03 19:02	S_G	1726993

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MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-198

Collected: 06/04/2003 15:30

SPL Sample ID: 03060186-04

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Chrysene	ND	430	1		06/17/03 19:02	S_G	1726993
Di-n-butyl phthalate	ND	430	1		06/17/03 19:02	S_G	1726993
Di-n-octyl phthalate	ND	430	1		06/17/03 19:02	S_G	1726993
Dibenz(a,h)anthracene	ND	430	1		06/17/03 19:02	S_G	1726993
Dibenzofuran	ND	430	1		06/17/03 19:02	S_G	1726993
Diethyl phthalate	ND	430	1		06/17/03 19:02	S_G	1726993
Dimethyl phthalate	ND	430	1		06/17/03 19:02	S_G	1726993
Fluoranthene	ND	430	1		06/17/03 19:02	S_G	1726993
Fluorene	ND	430	1		06/17/03 19:02	S_G	1726993
Hexachlorobenzene	ND	430	1		06/17/03 19:02	S_G	1726993
Hexachlorobutadiene	ND	430	1		06/17/03 19:02	S_G	1726993
Hexachlorocyclopentadiene	ND	430	1		06/17/03 19:02	S_G	1726993
Hexachloroethane	ND	430	1		06/17/03 19:02	S_G	1726993
Indeno(1,2,3-cd)pyrene	ND	430	1		06/17/03 19:02	S_G	1726993
Isophorone	ND	430	1		06/17/03 19:02	S_G	1726993
N-Nitrosodi-n-propylamine	ND	430	1		06/17/03 19:02	S_G	1726993
N-Nitrosodiphenylamine	ND	430	1		06/17/03 19:02	S_G	1726993
Naphthalene	ND	430	1		06/17/03 19:02	S_G	1726993
Nitrobenzene	ND	260	1		06/17/03 19:02	S_G	1726993
Pentachlorophenol	ND	1000	1		06/17/03 19:02	S_G	1726993
Phenanthrene	1100	430	1		06/17/03 19:02	S_G	1726993
Phenol	ND	430	1		06/17/03 19:02	S_G	1726993
Pyrene	ND	430	1		06/17/03 19:02	S_G	1726993
2-Methylphenol	ND	430	1		06/17/03 19:02	S_G	1726993
3 & 4-Methylphenol	ND	430	1		06/17/03 19:02	S_G	1726993
Surr: 2,4,6-Tribromophenol	80.0	% 19-122	1		06/17/03 19:02	S_G	1726993
Surr: 2-Fluorobiphenyl	58.8	% 30-115	1		06/17/03 19:02	S_G	1726993
Surr: 2-Fluorophenol	56.0	% 25-121	1		06/17/03 19:02	S_G	1726993
Surr: Nitrobenzene-d5	76.5	% 23-120	1		06/17/03 19:02	S_G	1726993
Surr: Phenol-d5	76.0	% 24-113	1		06/17/03 19:02	S_G	1726993
Surr: Terphenyl-d14	76.5	% 18-137	1		06/17/03 19:02	S_G	1726993
Pyridine	ND	430	1		06/17/03 19:02	S_G	1748849
Surr: 2,4,6-Tribromophenol	80.0	% 19-122	1		06/17/03 19:02	S_G	1748849
Surr: 2-Fluorobiphenyl	58.8	% 30-115	1		06/17/03 19:02	S_G	1748849
Surr: 2-Fluorophenol	56.0	% 25-121	1		06/17/03 19:02	S_G	1748849
Surr: Nitrobenzene-d5	76.5	% 23-120	1		06/17/03 19:02	S_G	1748849
Surr: Phenol-d5	76.0	% 24-113	1		06/17/03 19:02	S_G	1748849
Surr: Terphenyl-d14	76.5	% 18-137	1		06/17/03 19:02	S_G	1748849

Prep Method	Prep Date	Prep Initials
SW3550B	06/06/2003 9:51	HH

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-198

Collected: 06/04/2003 15:30

SPL Sample ID: 03060186-04

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
TCLP VOLATILE ORGANICS			MCL	SW8260B	Units: ug/L		
1,1-Dichloroethene	ND	50	700	10	06/09/03 23:09	TL	1714164
1,2-Dichloroethane	ND	50	500	10	06/09/03 23:09	TL	1714164
2-Butanone	ND	200	200000	10	06/09/03 23:09	TL	1714164
Benzene	ND	50	500	10	06/09/03 23:09	TL	1714164
Carbon tetrachloride	ND	50	500	10	06/09/03 23:09	TL	1714164
Chlorobenzene	ND	50	100000	10	06/09/03 23:09	TL	1714164
Chloroform	ND	50	6000	10	06/09/03 23:09	TL	1714164
Tetrachloroethene	ND	50	700	10	06/09/03 23:09	TL	1714164
Trichloroethene	ND	50	500	10	06/09/03 23:09	TL	1714164
Vinyl chloride	ND	100	200	10	06/09/03 23:09	TL	1714164
Surr: 1,2-Dichloroethane-d4	98.0	% 62-130		10	06/09/03 23:09	TL	1714164
Surr: 4-Bromofluorobenzene	76.0	% 70-130		10	06/09/03 23:09	TL	1714164
Surr: Toluene-d8	116	% 74-122		10	06/09/03 23:09	TL	1714164

Leach Method	Leachate Date	Leach Initials
SW1311	06/07/2003 13:55	E_S

Qualifiers: ND/U - Not Detected at the Reporting Limit
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-198

Collected: 06/04/2003 15:30

SPL Sample ID: 03060186-04

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B			MCL	SW8260B	Units: ug/Kg-dry.		
1,1,1-Trichloroethane	ND	65	50		06/17/03 2:46	C_V	1724466
1,1,2,2-Tetrachloroethane	ND	130	50		06/17/03 2:46	C_V	1724466
1,1,2-Trichloroethane	ND	65	50		06/17/03 2:46	C_V	1724466
1,1-Dichloroethane	ND	65	50		06/17/03 2:46	C_V	1724466
1,1-Dichloroethene	ND	65	50		06/17/03 2:46	C_V	1724466
1,2,4-Trichlorobenzene	ND	320	50		06/17/03 2:46	C_V	1724466
1,2-Dibromo-3-chloropropane	ND	320	50		06/17/03 2:46	C_V	1724466
1,2-Dibromoethane	ND	320	50		06/17/03 2:46	C_V	1724466
1,2-Dichlorobenzene	ND	130	50		06/17/03 2:46	C_V	1724466
1,2-Dichloroethane	ND	65	50		06/17/03 2:46	C_V	1724466
1,2-Dichloropropane	ND	65	50		06/17/03 2:46	C_V	1724466
1,3-Dichlorobenzene	ND	130	50		06/17/03 2:46	C_V	1724466
1,4-Dichlorobenzene	ND	130	50		06/17/03 2:46	C_V	1724466
2-Butanone	ND	970	50		06/17/03 2:46	C_V	1724466
2-Hexanone	ND	3200	50		06/17/03 2:46	C_V	1724466
4-Methyl-2-pentanone	ND	3200	50		06/17/03 2:46	C_V	1724466
Acetone	ND	970	50		06/17/03 2:46	C_V	1724466
Benzene	250	65	50		06/17/03 2:46	C_V	1724466
Bromodichloromethane	ND	130	50		06/17/03 2:46	C_V	1724466
Bromoform	ND	130	50		06/17/03 2:46	C_V	1724466
Bromomethane	ND	320	50		06/17/03 2:46	C_V	1724466
Carbon disulfide	ND	320	50		06/17/03 2:46	C_V	1724466
Carbon tetrachloride	ND	65	50		06/17/03 2:46	C_V	1724466
Chlorobenzene	ND	65	50		06/17/03 2:46	C_V	1724466
Chloroethane	ND	320	50		06/17/03 2:46	C_V	1724466
Chloroform	ND	65	50		06/17/03 2:46	C_V	1724466
Chloromethane	ND	320	50		06/17/03 2:46	C_V	1724466
Cyclohexane	580 J	1600	50		06/17/03 2:46	C_V	1724466
Dibromochloromethane	ND	65	50		06/17/03 2:46	C_V	1724466
Dichlorodifluoromethane	ND	130	50		06/17/03 2:46	C_V	1724466
Ethylbenzene	4400	65	50		06/17/03 2:46	C_V	1724466
Freon-113	ND	320	50		06/17/03 2:46	C_V	1724466
Isopropylbenzene	4900	320	50		06/17/03 2:46	C_V	1724466
Methyl acetate	ND	1600	50		06/17/03 2:46	C_V	1724466
Methyl tert-butyl ether	ND	320	50		06/17/03 2:46	C_V	1724466
Methylcyclohexane	1400	650	50		06/17/03 2:46	C_V	1724466
Methylene chloride	ND	320	50		06/17/03 2:46	C_V	1724466
Styrene	ND	65	50		06/17/03 2:46	C_V	1724466
Tetrachloroethene	ND	65	50		06/17/03 2:46	C_V	1724466
Toluene	ND	130	50		06/17/03 2:46	C_V	1724466

Qualifiers: ND/U - Not Detected at the Reporting Limit
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J - Estimated Value between MDL and PQL

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D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: SO-17303-MA-060403-198

Collected: 06/04/2003 15:30

SPL Sample ID: 03060186-04

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Trichloroethene	ND	65	50		06/17/03 2:46	C_V	1724466
Trichlorofluoromethane	ND	130	50		06/17/03 2:46	C_V	1724466
Vinyl chloride	ND	130	50		06/17/03 2:46	C_V	1724466
cis-1,2-Dichloroethene	ND	65	50		06/17/03 2:46	C_V	1724466
cis-1,3-Dichloropropene	ND	65	50		06/17/03 2:46	C_V	1724466
trans-1,2-Dichloroethene	ND	65	50		06/17/03 2:46	C_V	1724466
trans-1,3-Dichloropropene	ND	65	50		06/17/03 2:46	C_V	1724466
Xylenes, Total	170 J	190	50		06/17/03 2:46	C_V	1724466
1,2-Dichloroethene (total)	ND	65	50		06/17/03 2:46	C_V	1724466
1,3-Dichloropropene, Total	ND	65	50		06/17/03 2:46	C_V	1724466
Surr: 4-Bromofluorobenzene	100	% 62-130	50		06/17/03 2:46	C_V	1724466
Surr: Toluene-d8	100	% 70-140	50		06/17/03 2:46	C_V	1724466
Surr: 1,2-Dichloroethane-d4	92.0	% 64-130	50		06/17/03 2:46	C_V	1724466

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

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MI - Matrix Interference

Quality Control Documentation



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Polychlorinated Biphenyls by Method 8082
Method: SW8082

WorkOrder: 03060186
Lab Batch ID: 29108

Method Blank

Samples in Analytical Batch:

ID: VAR9_030611C-1716326 Units: ug/Kg
Analysis Date: 06/11/2003 16:42 Analyst: AR
Preparation Date: 06/09/2003 12:41 Prep By: HH Method SW3550B

Lab Sample ID	Client Sample ID
03060186-01A	SO-17303-MA-060403-195
03060186-02A	SO-17303-MA-060403-196
03060186-03A	SO-17303-MA-060403-197
03060186-04A	SO-17303-MA-060403-198

Analyte	Result	Rep Limit
Aroclor 1016	ND	33
Aroclor 1221	ND	33
Aroclor 1232	ND	33
Aroclor 1242	ND	33
Aroclor 1248	ND	33
Aroclor 1254	ND	33
Aroclor 1260	ND	33
Surr: Decachlorobiphenyl	113.0	26-161
Surr: Tetrachloro-m-xylene	92.5	40-130

Laboratory Control Sample (LCS)

RunID: VAR9_030611C-1716327 Units: ug/Kg
Analysis Date: 06/11/2003 17:32 Analyst: AR
Preparation Date: 06/09/2003 12:41 Prep By: HH Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Aroclor 1016	333	346	104	50	144
Aroclor 1260	333	326	98	55	131

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060203-04
RunID: VAR9_030611C-1717520 Units: ug/Kg-dry
Analysis Date: 06/12/2003 15:40 Analyst: AR
Preparation Date: 06/09/2003 12:41 Prep By: HH Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Aroclor 1016	ND	354	256	72.5	354	191	54.0	29.1	30	34	138
Aroclor 1260	ND	354	235	66.4	354	178	50.2	27.7 *	24	23	140

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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7/2/03 2:11:05 PM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 03060186
Lab Batch ID: 29141

Method Blank

Samples in Analytical Batch:

RunID: TJA_030614C-1720711 Units: mg/Kg
Analysis Date: 06/15/2003 7:08 Analyst: EG
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Lab Sample ID Client Sample ID
03060186-01A SO-17303-MA-060403-195
03060186-02A SO-17303-MA-060403-196
03060186-03A SO-17303-MA-060403-197
03060186-04A SO-17303-MA-060403-198

Analyte	Result	Rep Limit
Barium	ND	0.5
Copper	ND	1
Iron	ND	2
Vanadium	ND	0.5

Laboratory Control Sample (LCS)

RunID: TJA_030614C-1720712 Units: mg/Kg
Analysis Date: 06/15/2003 7:13 Analyst: EG
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Barium	100	96.66	97	80	120
Copper	100	93.66	94	80	120
Iron	100	105.3	105	80	120
Vanadium	100	104.7	105	80	120

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDSD)

Sample Spiked: 03060278-01
RunID: TJA_030614C-1720717 Units: mg/Kg-dry
Analysis Date: 06/15/2003 7:41 Analyst: EG
Preparation Date: 06/10/2003 12:20 Prep By: Method

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Barium	2.61	110.99	105.6	92.80	110.99	105	92.22	0.6061	20	75	125
Copper	2.19	110.99	106.7	94.13	110.99	106.6	94.08	0.04996	20	75	125
Iron	2240	110.99	2297	53.14 *	110.99	2289	45.95 *	0.3480	20	75	125

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060278-01
RunID: TJA_030614C-1720714 Units: mg/Kg-dry
Analysis Date: 06/15/2003 7:25 Analyst: EG
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 03060186
Lab Batch ID: 29141-T

Method Blank

Samples in Analytical Batch:

RunID: TJAT_030611D-1716383 Units: mg/Kg

Lab Sample ID

Client Sample ID

Analysis Date: 06/12/2003 7:16

Analyst: NS

03060186-01A

SO-17303-MA-060403-195

Preparation Date: 06/10/2003 12:20

Prep By: MED Method SW3050B

03060186-02A

SO-17303-MA-060403-196

03060186-03A

SO-17303-MA-060403-197

03060186-04A

SO-17303-MA-060403-198

Analyte	Result	Rep Limit
Antimony	ND	0.5
Chromium	ND	0.5
Cobalt	ND	0.5
Lead	ND	0.5
Manganese	ND	0.5
Nickel	ND	0.5
Thallium	ND	0.5
Zinc	ND	2

Laboratory Control Sample (LCS)

RunID: TJAT_030611D-1716384 Units: mg/Kg

Analysis Date: 06/12/2003 7:22

Analyst: NS

Preparation Date: 06/10/2003 12:20

Prep By: MED Method SW3050B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Antimony	100	108.9	109	80	120
Chromium	100	103.3	103	80	120
Cobalt	100	106.5	106	80	120
Lead	100	106.1	106	80	120
Manganese	100	104.8	105	80	120
Nickel	100	105.7	106	80	120
Thallium	100	103.5	104	80	120
Zinc	100	106.4	106	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060278-01

RunID: TJAT_030611D-1716386 Units: mg/Kg-dry

Analysis Date: 06/12/2003 7:34

Analyst: NS

Preparation Date: 06/10/2003 12:20

Prep By: MED Method SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Antimony	3.250	111	98.27	85.62	111	100.9	87.98	2.630	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 03060186
Lab Batch ID: 29141

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Barium	2.612	111	82.35	71.85 *	111	84.24	73.55 *	2.268	20	75	125
Copper	2.188	111	81.38	71.35 *	111	83.07	72.88 *	2.062	20	75	125
Iron	2238	111	2616	N/C	111	2483	N/C	N/C	20	75	125
Vanadium	3.494	111	89.75	77.72	111	91.13	78.96	1.517	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

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Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 03060186
Lab Batch ID: 29141-T

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060278-01
RunID: TJAT_030611D-1716386 Units: mg/Kg-dry
Analysis Date: 06/12/2003 7:34 Analyst: NS
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chromium	7.696	111	93.19	77.03	111	93.68	77.47	0.5250	20	75	125
Cadmium	1.251	111	86.94	77.20	111	88.18	78.32	1.423	20	75	125
Copper	1.313	111	89.26	79.24	111	91.03	80.83	1.965	20	75	125
Manganese	68.74	111	165.7	87.39	111	167.2	88.70	0.8741	20	75	125
Nickel	3.310	111	88.23	76.52	111	89.23	77.41	1.121	20	75	125
Barium	1.673	111	88	77.78	111	89.14	78.80	1.287	20	75	125
Zinc	8.809	111	96.95	79.42	111	97.33	79.75	0.3850	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

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Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 03060186
Lab Batch ID: 29141B-T

Method Blank

Samples in Analytical Batch:

RunID: TJAT_030612B-1717560 Units: mg/Kg
Analysis Date: 06/12/2003 19:52 Analyst: NS
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Lab Sample ID	Client Sample ID
03060186-01A	SO-17303-MA-060403-195
03060186-02A	SO-17303-MA-060403-196
03060186-03A	SO-17303-MA-060403-197
03060186-04A	SO-17303-MA-060403-198

Analyte	Result	Rep Limit
Silver	ND	0.5

Laboratory Control Sample (LCS)

RunID: TJAT_030612B-1717561 Units: mg/Kg
Analysis Date: 06/12/2003 19:58 Analyst: NS
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Silver	100	100.7	101	80	120

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDSD)

Sample Spiked: 03060278-01
RunID: TJAT_030612B-1717566 Units: mg/Kg-dry
Analysis Date: 06/12/2003 20:28 Analyst: NS
Preparation Date: 06/10/2003 12:20 Prep By: Method

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Silver	ND	110.99	112.7	101.5	110.99	113	101.8	0.3108	20	75	125

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060278-01
RunID: TJAT_030612B-1717563 Units: mg/Kg-dry
Analysis Date: 06/12/2003 20:10 Analyst: NS
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Silver	ND	111	83.05	74.82 *	111	88.47	79.71	6.318	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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Quality Control Report

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8880 INTERCHANGE DRIVE
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Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 03060186
Lab Batch ID: 29141A

Method Blank

Samples in Analytical Batch:

D: TJA_030618A-1728441 Units: mg/Kg
Analysis Date: 06/18/2003 14:13 Analyst: MW
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Lab Sample ID	Client Sample ID
03060186-01A	SO-17303-MA-060403-195
03060186-02A	SO-17303-MA-060403-196
03060186-03A	SO-17303-MA-060403-197
03060186-04A	SO-17303-MA-060403-198

Analyte	Result	Rep Limit
Calcium	ND	10

Laboratory Control Sample (LCS)

RunID: TJA_030618A-1728442 Units: mg/Kg
Analysis Date: 06/18/2003 14:18 Analyst: MW
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Calcium	100	105.8	106	80	120

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDSD)

Sample Spiked: 03060278-01
RunID: TJA_030618A-1728447 Units: mg/Kg-dry
Analysis Date: 06/18/2003 14:40 Analyst: MW
Preparation Date: 06/10/2003 12:20 Prep By: Method

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Calcium	37600	110.99	36590	-949.7 *	110.99	36650	-899.4 *	0.1525	20	75	125

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060278-01
RunID: TJA_030618A-1728444 Units: mg/Kg-dry
Analysis Date: 06/18/2003 14:26 Analyst: MW
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Calcium	37650	111	40260	N/C	111	41420	N/C	N/C	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

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Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 03060186
Lab Batch ID: 29141C

Method Blank

Samples in Analytical Batch:

RunID: TJA_030624A-1735698 Units: mg/Kg
Analysis Date: 06/24/2003 10:57 Analyst: MW
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Lab Sample ID Client Sample ID
03060186-01A SO-17303-MA-060403-195
03060186-02A SO-17303-MA-060403-196
03060186-03A SO-17303-MA-060403-197
03060186-04A SO-17303-MA-060403-198

Analyte	Result	Rep Limit
Aluminum	ND	10
Magnesium	ND	10
Potassium	ND	200
Sodium	ND	50

Laboratory Control Sample (LCS)

RunID: TJA_030624A-1735699 Units: mg/Kg
Analysis Date: 06/24/2003 11:02 Analyst: MW
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Aluminum	100	98.52	99	80	120
Magnesium	100	97.49	97	80	120
Potassium	1000	1079	108	80	120
Sodium	100	89.69	90	80	120

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDSD)

Sample Spiked: 03060278-01
RunID: TJA_030624A-1735704 Units: mg/Kg-dry
Analysis Date: 06/24/2003 11:24 Analyst: MW
Preparation Date: 06/10/2003 12:20 Prep By: Method

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Aluminum	1040	110.99	1095	46.46 *	110.99	1133	80.02	3.344	20	75	125
Magnesium	5970	110.99	5758	-187.4 *	110.99	5956	-8.634 *	3.387	20	75	125
Sodium	102	110.99	198.1	86.31	110.99	207.1	94.41	4.438	20	75	125

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060278-01
RunID: TJA_030624A-1735701 Units: mg/Kg-dry
Analysis Date: 06/24/2003 11:11 Analyst: MW
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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Quality Control Report

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8880 INTERCHANGE DRIVE
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Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 03060186
Lab Batch ID: 29141C

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Aluminum	1044	111	1293	N/C	111	1280	N/C	N/C	20	75	125
Magnesium	5966	111	7995	N/C	111	6343	N/C	N/C	20	75	125
Potassium	ND	1110	996.4	76.60	1110	1062	82.48	6.337	20	75	125
Sodium	102.3	111	181.5	71.33 *	111	187.5	76.68	3.214	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

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Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Mercury, Total
Method: SW7471A

WorkOrder: 03060186
Lab Batch ID: 29246

Method Blank

Samples in Analytical Batch:

RunID:	HGLD_030613A-1718128	Units:	mg/kg	<u>Lab Sample ID</u>	<u>Client Sample ID</u>
Analysis Date:	06/13/2003 13:20	Analyst:	R_T	03060186-01A	SO-17303-MA-060403-195
Preparation Date:	06/13/2003 10:20	Prep By:	R_T Method SW7471A	03060186-02A	SO-17303-MA-060403-196
				03060186-03A	SO-17303-MA-060403-197
				03060186-04A	SO-17303-MA-060403-198

Analyte	Result	Rep Limit
Mercury	ND	0.03

Laboratory Control Sample (LCS)

RunID: HGLD_030613A-1718129 Units: mg/kg
Analysis Date: 06/13/2003 13:23 Analyst: R_T
Preparation Date: 06/13/2003 10:20 Prep By: R_T Method SW7471A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Mercury	8.31	8.984	108	62	138

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03051062-09
RunID: HGLD_030613A-1718131 Units: mg/kg
Analysis Date: 06/13/2003 13:28 Analyst: R_T
Preparation Date: 06/13/2003 10:20 Prep By: R_T Method SW7471A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Mercury	ND	0.3	0.3099	100.4	0.3	0.3104	100.5	0.1731	20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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Quality Control Report

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(713) 660-0901

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Metals by Method 6020, Total
Method: SW6020

WorkOrder: 03060186
Lab Batch ID: 29510

Method BlankSamples in Analytical Batch:

RunID: ICPMS_030623A-1735173 Units: mg/Kg
Analysis Date: 06/23/2003 19:44 Analyst: EG
Preparation Date: 06/20/2003 14:05 Prep By: MED Method SW3050B

Lab Sample ID	Client Sample ID
03060186-01A	SO-17303-MA-060403-195
03060186-02A	SO-17303-MA-060403-196
03060186-03A	SO-17303-MA-060403-197
03060186-04A	SO-17303-MA-060403-198

Analyte	Result	Rep Limit
Arsenic	ND	0.1
Beryllium	ND	0.1
Cadmium	ND	0.05
Selenium	ND	0.1

Laboratory Control Sample (LCS)

RunID: ICPMS_030623A-1735174 Units: mg/Kg
Analysis Date: 06/23/2003 19:49 Analyst: EG
Preparation Date: 06/20/2003 14:05 Prep By: MED Method SW3050B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Arsenic	10	8.042	80	50	150
Beryllium	10	9.258	93	50	150
Cadmium	10	9.11	91	50	150
Selenium	10	6.908	69	50	150

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDSD)

Sample Spiked: 03060109-01
RunID: ICPMS_030623A-1735181 Units: mg/Kg-dry
Analysis Date: 06/23/2003 20:41 Analyst: EG
Preparation Date: 06/20/2003 14:05 Prep By: Method

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Arsenic	9.46	12.063	21.27	97.87	12.063	21.17	97.07	0.4548	20	85	115
Cadmium	15.2	12.063	26.72	95.40	12.063	26.63	94.70	0.3165	20	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060109-01
RunID: ICPMS_030623A-1735176 Units: mg/Kg-dry
Analysis Date: 06/23/2003 20:03 Analyst: EG
Preparation Date: 06/20/2003 14:05 Prep By: MED Method SW3050B

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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Quality Control Report

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8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Metals by Method 6020, Total
Method: SW6020

WorkOrder: 03060186
Lab Batch ID: 29510

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Arsenic	9.461	12.06	15.39	49.17 *	12.06	34.9	210.9 *	77.57 *	20	50	150
Yttrium	0.2305	12.06	8.014	64.53	12.06	7.911	63.67	1.303	20	50	150
Lead	15.21	12.06	47.38	266.7 *	12.06	44.62	243.8 *	6.005	20	50	150
Selenium	1.329	12.06	11.07	80.71	12.06	7.671	52.57	36.23 *	20	50	150

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303/CVO

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8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Analysis: Semivolatile Organics by Method 8270C
Method: SW8270C

WorkOrder: 03060186
Lab Batch ID: 29032

Method Blank

Samples in Analytical Batch:

ID: P_030612A-1716528 Units: ug/Kg
Analysis Date: 06/12/2003 13:05 Analyst: GQ
Preparation Date: 06/06/2003 9:51 Prep By: HH Method SW3550B

Lab Sample ID	Client Sample ID
03060186-01A	SO-17303-MA-060403-195
03060186-02A	SO-17303-MA-060403-196
03060186-03A	SO-17303-MA-060403-197
03060186-04A	SO-17303-MA-060403-198

Analyte	Result	Rep Limit
2,4,5-Trichlorophenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4-Dichlorophenol	ND	330
2,4-Dimethylphenol	ND	330
2,4-Dinitrophenol	ND	1700
2,4-Dinitrotoluene	ND	330
2,6-Dinitrotoluene	ND	330
2-Chloronaphthalene	ND	330
2-Chlorophenol	ND	330
2-Methylnaphthalene	ND	330
2-Nitroaniline	ND	1700
2-Nitrophenol	ND	330
3,3'-Dichlorobenzidine	ND	2000
3-Nitroaniline	ND	1700
4,6-Dinitro-2-methylphenol	ND	1700
4-Bromophenyl phenyl ether	ND	330
4-Chloro-3-methylphenol	ND	330
4-Chloroaniline	ND	1700
4-Chlorophenyl phenyl ether	ND	330
4-Nitroaniline	ND	1700
4-Nitrophenol	ND	1700
Acenaphthene	ND	330
Acenaphthylene	ND	330
Acetophenone	ND	330
Anthracene	ND	330
Atrazine	ND	150
Benz(a)anthracene	ND	330
Benzaldehyde	ND	330
Benzo(a)pyrene	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(g,h,i)perylene	ND	330
Benzo(k)fluoranthene	ND	330
Biphenyl	ND	330
Bis(2-chloroethoxy)methane	ND	330
Bis(2-chloroethyl)ether	ND	100
Bis(2-chloroisopropyl)ether	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Butyl benzyl phthalate	ND	330
Caprolactam	ND	330
Carbazole	ND	330
Chrysene	ND	330
Di-n-butyl phthalate	ND	330
Di-n-octyl phthalate	ND	330
Dibenz(a,h)anthracene	ND	330
Dibenzofuran	ND	330
Diethyl phthalate	ND	330
Dimethyl phthalate	ND	330
Fluoranthene	ND	330

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Semivolatile Organics by Method 8270C
Method: SW8270C

WorkOrder: 03060186
Lab Batch ID: 29032

Method Blank

UnitID: P_030612A-1716528 Units: ug/Kg
Analysis Date: 06/12/2003 13:05 Analyst: GQ
Preparation Date: 06/06/2003 9:51 Prep By: HH Method SW3550B

Analyte	Result	Rep Limit
Fluorene	ND	330
Hexachlorobenzene	ND	330
Hexachlorobutadiene	ND	330
Hexachlorocyclopentadiene	ND	330
Hexachloroethane	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Isophorone	ND	330
N-Nitrosodi-n-propylamine	ND	330
N-Nitrosodiphenylamine	ND	330
Naphthalene	ND	330
Nitrobenzene	ND	200
Pentachlorophenol	ND	800
Phenanthrene	ND	330
Phenol	ND	330
Pyrene	ND	330
Pyridine	ND	330
2-Methylphenol	ND	330
3 & 4-Methylphenol	ND	330
Surr: 2,4,6-Tribromophenol	84.0	19-122
Surr: 2-Fluorobiphenyl	82.4	30-115
Surr: 2-Fluorophenol	80.0	25-121
Surr: Nitrobenzene-d5	76.5	23-120
Surr: Phenol-d5	80.0	24-113
Surr: Terphenyl-d14	94.1	18-137

Laboratory Control Sample (LCS)

RunID: P_030611A-1716418 Units: ug/Kg
Analysis Date: 06/11/2003 17:56 Analyst: GQ
Preparation Date: 06/06/2003 9:51 Prep By: HH Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
1,2,4-Trichlorobenzene	1700	1500	88	44	142
1,4-Dichlorobenzene	1700	1400	82	20	124
2,4-Dinitrotoluene	1700	1600	94	30	150
2-Chlorophenol	2500	2100	84	23	134
4-Chloro-3-methylphenol	2500	2300	92	22	147
4-Nitrophenol	2500	2000	80	1	132
Acenaphthene	1700	1500	88	30	160
N-Nitrosodi-n-propylamine	1700	1700	100	1	230
Pentachlorophenol	2500	2000	80	14	176

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Semivolatile Organics by Method 8270C
Method: SW8270C

WorkOrder: 03060186
Lab Batch ID: 29032

Laboratory Control Sample (LCS)

RunID: P_030611A-1716418 Units: ug/Kg
Analysis Date: 06/11/2003 17:56 Analyst: GQ
Preparation Date: 06/06/2003 9:51 Prep By: HH Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Phenol	2500	2200	88	5	112
Pyrene	1700	1800	106	26	127

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060094-04
RunID: P_030611A-1716404 Units: ug/Kg
Analysis Date: 06/11/2003 18:57 Analyst: GQ
Preparation Date: 06/06/2003 9:51 Prep By: HH Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,4-Trichlorobenzene	ND	1700	980	58	1700	1400	82.4	35 *	28	44	142
1,2-Dichlorobenzene	ND	1700	920	54	1700	1200	70.6	26	28	20	124
2,4-Dinitrotoluene	ND	1700	1100	65	1700	1400	82.4	24	50	30	150
2-Chlorophenol	ND	2500	1300	52	2500	1900	76.0	38	40	23	134
3-Chloro-3-methylphenol	ND	2500	1600	64	2500	2100	84.0	27	42	22	147
4-Nitrophenol	ND	2500	1600	64	2500	1900	76.0	17	50	1	132
Acenaphthene	ND	1700	980	58	1700	1300	76.5	28	31	30	160
Nitrosodi-n-propylamine	ND	1700	1100	65	1700	1500	88.2	31	38	1	230
5-chlorophenol	ND	2500	1500	60	2500	1900	76.0	24	50	14	176
Phenol	ND	2500	1300	52	2500	1900	76.0	38	42	5	112
Pyrene	ND	1700	1400	82	1700	1700	100	19	31	26	127

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303/CVO

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Analysis: TCLP Volatile Organics
Method: SW8260B

WorkOrder: 03060186
Lab Batch ID: R86921

Method Blank

RunID: Q_030609B-1714154 Units: ug/L
Analysis Date: 06/09/2003 18:28 Analyst: TL

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
03060186-01A	SO-17303-MA-060403-195
03060186-03A	SO-17303-MA-060403-197
03060186-04A	SO-17303-MA-060403-198

Analyte	Result	Rep Limit
1,1-Dichloroethene	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	20
Benzene	ND	5.0
Carbon tetrachloride	ND	5.0
Chlorobenzene	ND	5.0
Chloroform	ND	5.0
Tetrachloroethene	ND	5.0
Trichloroethene	ND	5.0
Vinyl chloride	ND	10
Surr: 1,2-Dichloroethane-d4	102.0	62-130
Surr: 4-Bromofluorobenzene	82.0	70-130
Surr: Toluene-d8	120.0	74-122

Leachate Blank

RunID: Q_030609B-1714156 Units: ug/L
Analysis Date: 06/09/2003 19:34 Analyst: TL

Leach Date: 06/07/2003 13:55 Leach By: E_S Method SW1311

Analyte	Result	Rep Limit
1,1-Dichloroethene	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	20
Benzene	ND	5
Carbon tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
Tetrachloroethene	ND	5
Trichloroethene	ND	5
Vinyl chloride	ND	10

Laboratory Control Sample (LCS)

RunID: Q_030609B-1714153 Units: ug/L
Analysis Date: 06/09/2003 14:18 Analyst: TL

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
1,1-Dichloroethene	50	40	80	35	175
1,2-Dichloroethane	50	43	86	35	175
2-Butanone	50	27	54	10	175
Benzene	50	48	96	35	175

Qualifiers: ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: TCLP Volatile Organics
Method: SW8260B

WorkOrder: 03060186
Lab Batch ID: R86921

Laboratory Control Sample (LCS)

RunID: Q_030609B-1714153 Units: ug/L
Analysis Date: 06/09/2003 14:18 Analyst: TL

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Carbon tetrachloride	50	53	106	35	175
Chlorobenzene	50	45	90	35	175
Chloroform	50	43	86	35	175
Tetrachloroethene	50	60	120	35	200
Trichloroethene	50	41	82	35	175
Vinyl chloride	50	50	100	35	175

Matrix Spike (MS)

Sample Spiked: 03060063-04
RunID: Q_030609B-1714158 Units: ug/L
Analysis Date: 06/09/2003 20:28 Analyst: TL

Analyte	Sample Result	Spike Added	MS Result	MS % Recovery	Low Limit	High Limit
1,1-Dichloroethene	ND	500	400	80	35	175
1,2-Dichloroethane	ND	500	440	88	35	175
2-Butanone	ND	500	200	40	10	175
Benzene	ND	500	490	96	35	175
Carbon tetrachloride	ND	500	520	104	35	175
Chlorobenzene	ND	500	480	96	35	175
Chloroform	ND	500	440	88	35	175
Tetrachloroethene	ND	500	470	94	35	200
Trichloroethene	ND	500	420	84	35	175
Vinyl chloride	ND	500	530	106	35	175

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 03060186
Lab Batch ID: R87368

Method Blank

Samples in Analytical Batch:

RunID: Q_030616B-1724453 Units: ug/Kg
Analysis Date: 06/16/2003 20:30 Analyst: C_V

Lab Sample ID	Client Sample ID
03060186-01B	SO-17303-MA-060403-195
03060186-02B	SO-17303-MA-060403-196
03060186-04B	SO-17303-MA-060403-198

Analyte	Result	Rep Limit
1,1,1-Trichloroethane	ND	1.0
1,1,2,2-Tetrachloroethane	ND	2.0
1,1,2-Trichloroethane	ND	1.0
1,1-Dichloroethane	ND	1.0
1,1-Dichloroethene	ND	1.0
1,2,4-Trichlorobenzene	ND	5.0
1,2-Dibromo-3-chloropropane	ND	5.0
1,2-Dibromoethane	ND	5.0
1,2-Dichlorobenzene	ND	2.0
1,2-Dichloroethane	ND	1.0
1,2-Dichloropropane	ND	1.0
1,3-Dichlorobenzene	ND	2.0
1,4-Dichlorobenzene	ND	2.0
2-Butanone	ND	15
2-Hexanone	ND	50
4-Methyl-2-pentanone	ND	50
Acetone	ND	15
Benzene	ND	1.0
Bromodichloromethane	ND	2.0
Bromoform	ND	2.0
Bromomethane	ND	5.0
Carbon disulfide	ND	5.0
Carbon tetrachloride	ND	1.0
Chlorobenzene	ND	1.0
Chloroethane	ND	5.0
Chloroform	ND	1.0
Chloromethane	ND	5.0
Cyclohexane	ND	24
Dibromochloromethane	ND	1.0
Dichlorodifluoromethane	ND	2.0
Ethylbenzene	ND	1.0
Freon-113	ND	5.0
Isopropylbenzene	ND	5.0
Methyl acetate	ND	24
Methyl tert-butyl ether	ND	5.0
Methylcyclohexane	ND	10
Methylene chloride	ND	5.0
Styrene	ND	1.0
Tetrachloroethene	ND	1.0
Toluene	ND	2.0
Trichloroethene	ND	1.0
Trichlorofluoromethane	ND	2.0
Vinyl chloride	ND	2.0
cis-1,2-Dichloroethene	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
trans-1,2-Dichloroethene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,2-Dichloroethene (total)	ND	1.0

Qualifiers: ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 03060186
Lab Batch ID: R87368

Method Blank

RunID: Q_030616B-1724453 Units: ug/Kg
Analysis Date: 06/16/2003 20:30 Analyst: C_V

Analyte	Result	Rep Limit
1,3-Dichloropropene, Total	ND	1.0
Xylenes, Total	ND	3.0
Surr: 1,2-Dichloroethane-d4	94.4	64-130
Surr: 4-Bromofluorobenzene	88.0	62-130
Surr: Toluene-d8	105.6	70-140

Laboratory Control Sample (LCS)

RunID: Q_030616B-1724451 Units: ug/L
Analysis Date: 06/16/2003 18:57 Analyst: C_V

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
1,1-Dichloroethene	50	56	112	61	145
Benzene	50	55	110	76	127
Chlorobenzene	50	48	96	70	130
Toluene	50	52	104	70	129
Trichloroethene	50	52	104	60	140

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060453-03
RunID: Q_030616B-1724457 Units: ug/Kg-dry
Analysis Date: 06/16/2003 21:24 Analyst: C_V

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,1-Dichloroethene	ND	8090	8020	99	8090	8670	107	8	22	59	172
Benzene	ND	8090	9060	108	8090	9060	108	0	21	66	142
Chlorobenzene	ND	8090	7120	88	8090	7370	91.2	4	21	60	133
Toluene	944	8090	8280	91	8090	8670	95.5	5	21	59	139
Trichloroethene	ND	8090	8280	102	8090	8280	102	0	24	60	140

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 03060186
Lab Batch ID: R87397

Method Blank

Samples in Analytical Batch:

UnitID: Q_030617A-1724936 Units: ug/Kg
Analysis Date: 06/17/2003 16:33 Analyst: C_V

Lab Sample ID Client Sample ID
03060186-01B SO-17303-MA-060403-195
03060186-03B SO-17303-MA-060403-197

Analyte	Result	Rep Limit
1,1,1-Trichloroethane	ND	1.0
1,1,2,2-Tetrachloroethane	ND	2.0
1,1,2-Trichloroethane	ND	1.0
1,1-Dichloroethane	ND	1.0
1,1-Dichloroethene	ND	1.0
1,2,4-Trichlorobenzene	ND	5.0
1,2-Dibromo-3-chloropropane	ND	5.0
1,2-Dibromoethane	ND	5.0
1,2-Dichlorobenzene	ND	2.0
1,2-Dichloroethane	ND	1.0
1,2-Dichloropropane	ND	1.0
1,3-Dichlorobenzene	ND	2.0
1,4-Dichlorobenzene	ND	2.0
2-Butanone	ND	15
2-Hexanone	ND	50
4-Methyl-2-pentanone	ND	50
Acetone	ND	15
Benzene	ND	1.0
Bromodichloromethane	ND	2.0
Bromoform	ND	2.0
Bromomethane	ND	5.0
Carbon disulfide	ND	5.0
Carbon tetrachloride	ND	1.0
Chlorobenzene	ND	1.0
Chloroethane	ND	5.0
Chloroform	ND	1.0
Chloromethane	ND	5.0
Cyclohexane	ND	24
Dibromochloromethane	ND	1.0
Dichlorodifluoromethane	ND	2.0
Ethylbenzene	ND	1.0
Freon-113	ND	5.0
Isopropylbenzene	ND	5.0
Methyl acetate	ND	24
Methyl tert-butyl ether	ND	5.0
Methylcyclohexane	ND	10
Methylene chloride	ND	5.0
Styrene	ND	1.0
Tetrachloroethene	ND	1.0
Toluene	ND	2.0
Trichloroethene	ND	1.0
Trichlorofluoromethane	ND	2.0
Vinyl chloride	ND	2.0
cis-1,2-Dichloroethene	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
trans-1,2-Dichloroethene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,2-Dichloroethene (total)	ND	1.0

Qualifiers: ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

MI - Matrix interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Volatile Organics by Method 8260B.
Method: SW8260B

WorkOrder: 03060186
Lab Batch ID: R87397

Method Blank

RunID: Q_030617A-1724936 Units: ug/Kg
Analysis Date: 06/17/2003 16:33 Analyst: C_V

Analyte	Result	Rep Limit
1,3-Dichloropropene, Total	ND	1.0
Xylenes, Total	ND	3.0
Surr: 1,2-Dichloroethane-d4	96.0	64-130
Surr: 4-Bromofluorobenzene	94.4	62-130
Surr: Toluene-d8	104.0	70-140

Laboratory Control Sample (LCS)

RunID: Q_030617A-1724935 Units: ug/L
Analysis Date: 06/17/2003 14:45 Analyst: C_V

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
1,1-Dichloroethene	50	54	108	61	145
Benzene	50	55	110	76	127
Chlorobenzene	50	46	92	70	130
Toluene	50	50	100	70	129
Trichloroethene	50	50	100	60	140

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060186-03
RunID: Q_030617A-1724944 Units: ug/Kg-dry
Analysis Date: 06/17/2003 17:53 Analyst: C_V

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1-Dichloroethene	ND	2710	3040	112	2710	3040	112	0	22	59	172
Benzene	ND	2710	3040	112	2710	3150	116	4	21	66	142
Chlorobenzene	ND	2710	2490	92	2710	2490	92.0	0	21	60	133
Toluene	ND	2710	2710	100	2710	2820	104	4	21	59	139
Trichloroethene	ND	2710	2710	100	2710	2710	100	0	24	60	140

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: PERCENT MOISTURE
Method: D2216

WorkOrder: 03060186
Lab Batch ID: R86784

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
03060186-01A	SO-17303-MA-060403-195
03060186-02A	SO-17303-MA-060403-196
03060186-03A	SO-17303-MA-060403-197
03060186-04A	SO-17303-MA-060403-198

Sample Duplicate

Original Sample: 03060186-01
RunID: WET_030609L-1711268 Units: wt%
Analysis Date: 06/09/2003 19:00 Analyst: DP

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	12	12.1	1	20

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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7/2/03 2:11:23 PM

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder:	03060186	Received By:	NB
Date and Time Received:	6/5/03 9:30:00 AM	Carrier name:	FedEx
Temperature:	3	Chilled by:	Water Ice

- | | | | |
|--|--|-----------------------------|--|
| 1. Shipping container/cooler in good condition? | Ye ☒ | No ☐ | Not Present ☐ |
| 2. Custody seals intact on shipping container/cooler? | Ye ☒ | No ☐ | Not Present ☐ |
| 3. Custody seals intact on sample bottles? | Ye ☐ | No ☐ | Not Present ☒ |
| 4. Chain of custody present? | Ye ☒ | No ☐ | |
| 5. Chain of custody signed when relinquished and received? | Ye ☒ | No ☐ | |
| 6. Chain of custody agrees with sample labels? | Ye ☒ | No ☐ | |
| 7. Samples in proper container/bottle? | Ye ☒ | No ☐ | |
| 8. Sample containers intact? | Ye ☒ | No ☐ | |
| 9. Sufficient sample volume for indicated test? | Ye ☒ | No ☐ | |
| 10. All samples received within holding time? | Ye ☒ | No ☐ | |
| 11. Container/Temp Blank temperature in compliance? | Ye ☒ | No ☐ | |
| 12. Water - VOA vials have zero headspace | Ye ☐ | No ☐ | Not Applicable ☒ |
| 13. Water - pH acceptable upon receipt? | Ye ☐ | No ☐ | Not Applicable ☒ |

SPL Representative:
Client Name Contacted:

Contact Date & Time:

Non Conformance Issues:
Client Instructions:

03060184

CRA CONESTOGA-ROVERS & ASSOCIATES, INC. 14496 Sheldon Road, Suite 200 Plymouth, MI 48170 • (734) 453-5123			SHIPPED TO (Laboratory Name): SPL			REVISED K.B 6-5-03																																																																																																																																				
CHAIN OF CUSTODY RECORD			REFERENCE NUMBER: 017303			PROJECT NAME: CVO																																																																																																																																				
SAMPLER'S SIGNATURE: <i>[Signature]</i>			PRINTED NAME: <i>Matthew S. Adell</i>			PARAMETERS <table><tr><td>TC-500A</td><td>TC-500B</td><td>TC-500C</td><td>TC-500D</td><td>TC-500E</td><td>TC-500F</td><td>TC-500G</td><td>TC-500H</td><td>TC-500I</td><td>TC-500J</td><td>TC-500K</td><td>TC-500L</td><td>TC-500M</td><td>TC-500N</td><td>TC-500O</td><td>TC-500P</td><td>TC-500Q</td><td>TC-500R</td><td>TC-500S</td><td>TC-500T</td><td>TC-500U</td><td>TC-500V</td><td>TC-500W</td><td>TC-500X</td><td>TC-500Y</td><td>TC-500Z</td></tr><tr><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr><tr><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr></table>			TC-500A	TC-500B	TC-500C	TC-500D	TC-500E	TC-500F	TC-500G	TC-500H	TC-500I	TC-500J	TC-500K	TC-500L	TC-500M	TC-500N	TC-500O	TC-500P	TC-500Q	TC-500R	TC-500S	TC-500T	TC-500U	TC-500V	TC-500W	TC-500X	TC-500Y	TC-500Z	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TC-500A	TC-500B	TC-500C	TC-500D	TC-500E	TC-500F				TC-500G	TC-500H	TC-500I	TC-500J	TC-500K	TC-500L	TC-500M	TC-500N	TC-500O	TC-500P	TC-500Q	TC-500R	TC-500S	TC-500T	TC-500U	TC-500V	TC-500W	TC-500X	TC-500Y	TC-500Z																																																																																																														
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SEQ. No.	DATE	TIME	SAMPLE TYPE	No. OF CONTAINERS	REMARKS																																																																																																																																					
1	6/4/03	0820	SD-17303-MA-060703-193	SOIL	2	2-NK-TAT																																																																																																																																				
2	6/4/03	1100	SD-17303-MA-060703-196	SOIL	2	CONTACT: PAUL																																																																																																																																				
3	6/4/03	1545	SD-17303-MA-060703-197	SOIL	2	UNIDENTIFIED																																																																																																																																				
4	6/4/03	1530	SD-17303-MA-060703-198	SOIL	2	Please ADD TCLP VOC																																																																																																																																				
TOTAL NUMBER OF CONTAINERS					8																																																																																																																																					
RELINQUISHED BY: 1. <i>[Signature]</i>			DATE: 6/4/03 TIME: 1800		RECEIVED BY: 1. _____			DATE: _____ TIME: _____																																																																																																																																		
RELINQUISHED BY: 2. _____			DATE: _____ TIME: _____		RECEIVED BY: 2. _____			DATE: _____ TIME: _____																																																																																																																																		
RELINQUISHED BY: 3. _____			DATE: _____ TIME: _____		RECEIVED BY: 3. _____			DATE: _____ TIME: _____																																																																																																																																		
METHOD OF SHIPMENT: FEDEX					AIR BILL No. 6247 7744 1196																																																																																																																																					
SAMPLE TEAM: <i>[Signature]</i>					RECEIVED FOR LABORATORY BY: <i>[Signature]</i>					3L																																																																																																																																
DATE: 6/5/03 TIME: 0930																																																																																																																																										



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conestoga-Rovers & Associates, Inc.

Certificate of Analysis Number:

03060109

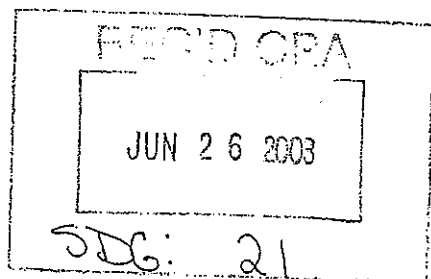
Report To: Conestoga-Rovers & Associates, Inc. Paul Wiseman 14496 Sheldon Rd. Suite 200 Plymouth MI 48170- ph: (734) 453-5123 fax:	Project Name: #17303/CVO Site: #17303/CVO Site Address: PO Number: 40-0017478 State: Michigan State Cert. No.: Date Reported: 6/24/03
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This Report Contains A Total Of 41 Pages

Excluding This Page

And

Chain Of Custody



ORIGINAL ANALYTICAL REPORT

Project#: 17303 Lab#: 03060109

Name: Former Willow Run

Description

Event: Waste char.

Samples: 2 sel.

Analysis: PCTB, voc, Svoc, MTL

TAT: 14 day

Lab: SPL

Checked Against Preliminary Data:

Date: _____ Init.: _____

Date of Validation Memo: _____

Invoice Approval Date: _____

Comments: _____

Sonia West
Sonia West
Project Manager

6/24/03

Date

SPL certifies that this data package complies with applicable data and QA standards with any exceptions that may have been noted in accompanying documentation. SPL authorizes the release of the data contained in this hardcopy or equivalent electronic deliverable media.



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Case Narrative for:
Conestoga-Rovers & Associates, Inc.

Certificate of Analysis Number:

03060109

Report To: Conestoga-Rovers & Associates, Inc. Paul Wiseman 14496 Sheldon Rd. Suite 200 Plymouth MI 48170- ph: (734) 453-5123 fax:	Project Name: #17303/CVO Site: #17303/CVO Site Address: PO Number: 40-0017478 State: Michigan State Cert. No.: Date Reported: 6/24/03
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Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

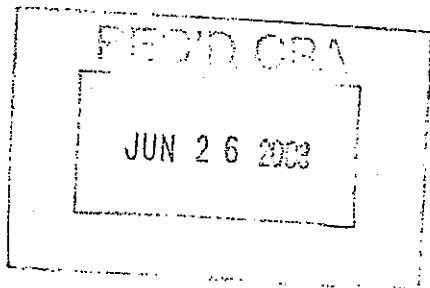
Your sample ID "SO-17303-MA-060303-193" (SPL ID: 03060109-01) was randomly selected for use in SPL's quality control program for the Total Metals analysis by SW846 Method 6020. The MS and MSD recoveries were outside of the advisable quality control limits for Arsenic and Cadmium (Batch ID: 29510) due to matrix interference. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.



Sonia West
Sonia West

Senior Project Manager

Date



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conestoga-Rovers & Associates, Inc.

Certificate of Analysis Number:

03060109

Report To: Conestoga-Rovers & Associates, Inc.

Paul Wiseman

14496 Sheldon Rd.

Suite 200

Plymouth

MI

48170-

ph: (734) 453-5123

fax: (734) 453-5201

Project Name: #17303/CVO

Site: #17303/CVO

Site Address:

PO Number: 40-0017478

State: Michigan

State Cert. No.:

Date Reported: 6/24/03

Fax To:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
17303-MA-060303-193	03060109-01	Soil	6/3/03 1:30:00 PM	6/4/03 10:00:00 AM	22601	☐
17303-MA-060303-194	03060109-02	Soil	6/3/03 3:35:00 PM	6/4/03 10:00:00 AM	22601	☐

Sonia West

6/24/03

Sonia West

Date

Senior Project Manager

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Method Summary

Conestoga-Rovers & Associates, Inc.

03060109

Client Sample ID	Lab Sample ID	Test Name	Test Number
SO-17303-MA-060303-193	03060109-01	Acid Digestion-Solid, ICP Metals	SW3050B
		Mercury, Total	SW7471A
		Mercury, Total - Digestion	SW7471A
		Metals by Method 6010B, Total	SW6010B
		Metals by Method 6020, Total	SW6020
		Method 5035-Michigan	SW5035
		PERCENT MOISTURE	D2216
		Polychlorinated Biphenyls by Method 8082	SW8082
		Semivolatile Organics by Method 8270C	SW8270C
		Sonication Extraction - GC/MS SVOA	SW3550B
		Sonication Extraction - PCBs	SW3550B
		TCLP Extraction - GC/MS VOA	SW1311
		TCLP Volatile Organics	SW8260B
		Volatile Organics by Method 8260B	SW8260B
SO-17303-MA-060303-194	03060109-02	Acid Digestion-Solid, ICP Metals	SW3050B
		Mercury, Total	SW7471A
		Mercury, Total - Digestion	SW7471A
		Metals by Method 6010B, Total	SW6010B
		Metals by Method 6020, Total	SW6020
		Method 5035-Michigan	SW5035
		PERCENT MOISTURE	D2216
		Polychlorinated Biphenyls by Method 8082	SW8082
		Semivolatile Organics by Method 8270C	SW8270C
		Sonication Extraction - GC/MS SVOA	SW3550B
		Sonication Extraction - PCBs	SW3550B
		TCLP Extraction - GC/MS VOA	SW1311

6/24/03

Date

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6/24/03 3:30:48 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Method Summary

Conestoga-Rovers & Associates, Inc.

03060109

Client Sample ID	Lab Sample ID	Test Name	Test Number
		TCLP Volatile Organics	SW8260B
		Volatile Organics by Method 8260B	SW8260B

6/24/03

Date

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6/24/03 3:30:48 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SO-17303-MA-060303-193

Collected: 06/03/2003 13:30

SPL Sample ID: 03060109-01

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
POLYCHLORINATED BIPHENYLS BY METHOD 8082		MCL	SW8082		Units: ug/Kg-dry		
Aroclor 1016	ND	400	1		06/11/03 11:09	AR	1713840
Aroclor 1221	ND	400	1		06/11/03 11:09	AR	1713840
Aroclor 1232	ND	400	1		06/11/03 11:09	AR	1713840
Aroclor 1242	ND	400	1		06/11/03 11:09	AR	1713840
Aroclor 1248	ND	400	1		06/11/03 11:09	AR	1713840
Aroclor 1254	ND	400	1		06/11/03 11:09	AR	1713840
Aroclor 1260	ND	400	1		06/11/03 11:09	AR	1713840
Surr: Tetrachloro-m-xylene	51.0	% 40-130	1		06/11/03 11:09	AR	1713840
Surr: Decachlorobiphenyl	117	% 26-161	1		06/11/03 11:09	AR	1713840

Prep Method	Prep Date	Prep Initials
SW3550B	06/05/2003 11:43	IHH

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
J - Estimated Value between MDL and PQL
E - Concentrations exceeding Calibration range of Instrument

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6/24/03 3:30:57 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SO-17303-MA-060303-193 Collected: 06/03/2003 13:30 SPL Sample ID: 03060109-01

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
MERCURY, TOTAL			MCL	SW7471A	Units: mg/Kg-dry		
Mercury	ND	0.12	1		06/13/03 13:36	R_T	1718134

Prep Method	Prep Date	Prep Initials
SW7471A	06/13/2003 10:20	R_T

METALS BY METHOD 6010B, TOTAL			MCL	SW6010B	Units: mg/Kg-dry		
Antimony	402	0.6	1		06/12/03 8:47	NS	1716398
Chromium	226	0.6	1		06/12/03 8:47	NS	1716398
Cobalt	10.5	0.6	1		06/12/03 8:47	NS	1716398
Lead	12000	6	5		06/12/03 21:29	NS	1717575
Manganese	823	1.2	1		06/12/03 8:47	NS	1716398
Nickel	59.9	1.2	1		06/12/03 8:47	NS	1716398
Silver	1.3	0.6	1		06/12/03 21:22	NS	1717574
Thallium	19.1	0.6	1		06/12/03 8:47	NS	1716398
Zinc	2350	1.2	1		06/12/03 8:47	NS	1716398
Aluminum	4040	12	1		06/24/03 11:33	MW	1735706
Barium	823	1.2	1		06/15/03 7:52	EG	1720719
Calcium	14500	1200	1		06/18/03 14:48	MW	1728449
Copper	231	1.2	1		06/15/03 7:52	EG	1720719
Iron	31000	12	5		06/15/03 19:18	EG	1721398
Magnesium	8140	12	1		06/24/03 11:33	MW	1735706
Potassium	287	240	1		06/24/03 11:33	MW	1735706
Sodium	415	60	1		06/24/03 11:33	MW	1735706
Vanadium	29.6	1.2	1		06/15/03 7:52	EG	1720719

Prep Method	Prep Date	Prep Initials
SW3050B	06/10/2003 12:20	MED

METALS BY METHOD 6020, TOTAL			MCL	SW6020	Units: mg/Kg-dry		
Arsenic	9.46	0.12	1		06/23/03 19:54	EG	1735175
Beryllium	ND	0.24	1		06/23/03 19:54	EG	1735175
Cadmium	15.2	0.06	1		06/23/03 19:54	EG	1735175
Selenium	1.33	0.24	1		06/23/03 19:54	EG	1735175

Prep Method	Prep Date	Prep Initials
SW3050B	06/20/2003 14:05	MED

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
J - Estimated Value between MDL and PQL
E - Concentrations exceeding Calibration range of Instrument



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SO-17303-MA-060303-193

Collected: 06/03/2003 13:30

SPL Sample ID: 03060109-01

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C		MCL	SW8270C	Units: ug/Kg-dry			
2,4,5-Trichlorophenol	ND	800	2		06/17/03 16:26	S_G	1726979
2,4,6-Trichlorophenol	ND	800	2		06/17/03 16:26	S_G	1726979
2,4-Dichlorophenol	ND	800	2		06/17/03 16:26	S_G	1726979
2,4-Dimethylphenol	ND	800	2		06/17/03 16:26	S_G	1726979
2,4-Dinitrophenol	ND	4100	2		06/17/03 16:26	S_G	1726979
2,4-Dinitrotoluene	ND	800	2		06/17/03 16:26	S_G	1726979
2,6-Dinitrotoluene	ND	800	2		06/17/03 16:26	S_G	1726979
2-Chloronaphthalene	ND	800	2		06/17/03 16:26	S_G	1726979
2-Chlorophenol	ND	800	2		06/17/03 16:26	S_G	1726979
2-Methylnaphthalene	2700	800	2		06/17/03 16:26	S_G	1726979
2-Nitroaniline	ND	4100	2		06/17/03 16:26	S_G	1726979
2-Nitrophenol	ND	800	2		06/17/03 16:26	S_G	1726979
3,3'-Dichlorobenzidine	ND	4800	2		06/17/03 16:26	S_G	1726979
3-Nitroaniline	ND	4100	2		06/17/03 16:26	S_G	1726979
4,6-Dinitro-2-methylphenol	ND	4100	2		06/17/03 16:26	S_G	1726979
4-Bromophenyl phenyl ether	ND	800	2		06/17/03 16:26	S_G	1726979
4-Chloro-3-methylphenol	ND	800	2		06/17/03 16:26	S_G	1726979
4-Chloroaniline	ND	4100	2		06/17/03 16:26	S_G	1726979
4-Chlorophenyl phenyl ether	ND	800	2		06/17/03 16:26	S_G	1726979
4-Nitroaniline	ND	4100	2		06/17/03 16:26	S_G	1726979
4-Nitrophenol	ND	4100	2		06/17/03 16:26	S_G	1726979
Acenaphthene	1300	800	2		06/17/03 16:26	S_G	1726979
Acenaphthylene	ND	800	2		06/17/03 16:26	S_G	1726979
Acetophenone	ND	800	2		06/17/03 16:26	S_G	1726979
Anthracene	1900	800	2		06/17/03 16:26	S_G	1726979
Atrazine	ND	360	2		06/17/03 16:26	S_G	1726979
Benz(a)anthracene	2900	800	2		06/17/03 16:26	S_G	1726979
Benzaldehyde	ND	800	2		06/17/03 16:26	S_G	1726979
Benzo(a)pyrene	1800	800	2		06/17/03 16:26	S_G	1726979
Benzo(b)fluoranthene	2500	800	2		06/17/03 16:26	S_G	1726979
Benzo(g,h,i)perylene	1100	800	2		06/17/03 16:26	S_G	1726979
Benzo(k)fluoranthene	1100	800	2		06/17/03 16:26	S_G	1726979
Biphenyl	ND	800	2		06/17/03 16:26	S_G	1726979
Bis(2-chloroethoxy)methane	ND	800	2		06/17/03 16:26	S_G	1726979
Bis(2-chloroethyl)ether	ND	240	2		06/17/03 16:26	S_G	1726979
Bis(2-chloroisopropyl)ether	ND	800	2		06/17/03 16:26	S_G	1726979
Bis(2-ethylhexyl)phthalate	ND	800	2		06/17/03 16:26	S_G	1726979
Butyl benzyl phthalate	ND	800	2		06/17/03 16:26	S_G	1726979
Caprolactam	ND	800	2		06/17/03 16:26	S_G	1726979
Carbazole	ND	800	2		06/17/03 16:26	S_G	1726979

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SO-17303-MA-060303-193

Collected: 06/03/2003 13:30

SPL Sample ID: 03060109-01

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Chrysene	2300	800	2		06/17/03 16:26	S_G	1726979
Di-n-butyl phthalate	ND	800	2		06/17/03 16:26	S_G	1726979
Di-n-octyl phthalate	ND	800	2		06/17/03 16:26	S_G	1726979
Dibenz(a,h)anthracene	ND	800	2		06/17/03 16:26	S_G	1726979
Dibenzofuran	1100	800	2		06/17/03 16:26	S_G	1726979
Diethyl phthalate	ND	800	2		06/17/03 16:26	S_G	1726979
Dimethyl phthalate	ND	800	2		06/17/03 16:26	S_G	1726979
Fluoranthene	6000	800	2		06/17/03 16:26	S_G	1726979
Fluorene	2300	800	2		06/17/03 16:26	S_G	1726979
Hexachlorobenzene	ND	800	2		06/17/03 16:26	S_G	1726979
Hexachlorobutadiene	ND	800	2		06/17/03 16:26	S_G	1726979
Hexachlorocyclopentadiene	ND	800	2		06/17/03 16:26	S_G	1726979
Hexachloroethane	ND	800	2		06/17/03 16:26	S_G	1726979
Indeno(1,2,3-cd)pyrene	870	800	2		06/17/03 16:26	S_G	1726979
Isophorone	ND	800	2		06/17/03 16:26	S_G	1726979
N-Nitrosodi-n-propylamine	ND	800	2		06/17/03 16:26	S_G	1726979
N-Nitrosodiphenylamine	ND	800	2		06/17/03 16:26	S_G	1726979
Naphthalene	1100	800	2		06/17/03 16:26	S_G	1726979
Nitrobenzene	ND	480	2		06/17/03 16:26	S_G	1726979
Pentachlorophenol	ND	1900	2		06/17/03 16:26	S_G	1726979
Phenanthrene	11000	4000	10		06/17/03 23:10	S_G	1730282
Phenol	ND	800	2		06/17/03 16:26	S_G	1726979
Pyrene	3900	800	2		06/17/03 16:26	S_G	1726979
2-Methylphenol	ND	800	2		06/17/03 16:26	S_G	1726979
3 & 4-Methylphenol	ND	800	2		06/17/03 16:26	S_G	1726979
Surr: 2,4,6-Tribromophenol	56.0	% 19-122	2		06/17/03 16:26	S_G	1726979
Surr: 2,4,6-Tribromophenol	D	% 19-122	10	*	06/17/03 23:10	S_G	1730282
Surr: 2-Fluorobiphenyl	D	% 30-115	10	*	06/17/03 23:10	S_G	1730282
Surr: 2-Fluorobiphenyl	51.2	% 30-115	2		06/17/03 16:26	S_G	1726979
Surr: 2-Fluorophenol	52.0	% 25-121	2		06/17/03 16:26	S_G	1726979
Surr: 2-Fluorophenol	D	% 25-121	10	*	06/17/03 23:10	S_G	1730282
Surr: Nitrobenzene-d5	55.9	% 23-120	2		06/17/03 16:26	S_G	1726979
Surr: Nitrobenzene-d5	D	% 23-120	10	*	06/17/03 23:10	S_G	1730282
Surr: Phenol-d5	68.0	% 24-113	2		06/17/03 16:26	S_G	1726979
Surr: Phenol-d5	D	% 24-113	10	*	06/17/03 23:10	S_G	1730282
Surr: Terphenyl-d14	50.0	% 18-137	2		06/17/03 16:26	S_G	1726979
Surr: Terphenyl-d14	D	% 18-137	10	*	06/17/03 23:10	S_G	1730282

Prep Method	Prep Date	Prep Initials
SW3550B	06/06/2003 9:51	HH

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SO-17303-MA-060303-193

Collected: 06/03/2003 13:30

SPL Sample ID: 03060109-01

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
TCLP VOLATILE ORGANICS		MCL	SW8260B	Units: ug/L			
1,1-Dichloroethene	ND	50 700	10		06/09/03 21:22	TL	1714160
1,2-Dichloroethane	ND	50 500	10		06/09/03 21:22	TL	1714160
2-Butanone	ND	200 200000	10		06/09/03 21:22	TL	1714160
Benzene	ND	50 500	10		06/09/03 21:22	TL	1714160
Carbon tetrachloride	ND	50 500	10		06/09/03 21:22	TL	1714160
Chlorobenzene	ND	50 100000	10		06/09/03 21:22	TL	1714160
Chloroform	ND	50 6000	10		06/09/03 21:22	TL	1714160
Tetrachloroethene	ND	50 700	10		06/09/03 21:22	TL	1714160
Trichloroethene	ND	50 500	10		06/09/03 21:22	TL	1714160
Vinyl chloride	ND	100 200	10		06/09/03 21:22	TL	1714160
Surr: 1,2-Dichloroethane-d4	96.0	% 62-130	10		06/09/03 21:22	TL	1714160
Surr: 4-Bromofluorobenzene	78.0	% 70-130	10		06/09/03 21:22	TL	1714160
Surr: Toluene-d8	118	% 74-122	10		06/09/03 21:22	TL	1714160

Leach Method	Leachate Date	Leach Initials
SW1311	06/07/2003 13:55	E_S

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HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SO-17303-MA-060303-193

Collected: 06/03/2003 13:30

SPL Sample ID: 03060109-01

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B		MCL	SW8260B	Units: ug/Kg-dry			
1,1,1-Trichloroethane	ND	60	50		06/04/03 20:38	C_V	1703843
1,1,2,2-Tetrachloroethane	ND	120	50		06/04/03 20:38	C_V	1703843
1,1,2-Trichloroethane	ND	60	50		06/04/03 20:38	C_V	1703843
1,1-Dichloroethane	ND	60	50		06/04/03 20:38	C_V	1703843
1,1-Dichloroethene	ND	60	50		06/04/03 20:38	C_V	1703843
1,2,4-Trichlorobenzene	ND	300	50		06/04/03 20:38	C_V	1703843
1,2-Dibromo-3-chloropropane	ND	300	50		06/04/03 20:38	C_V	1703843
1,2-Dibromoethane	ND	300	50		06/04/03 20:38	C_V	1703843
1,2-Dichlorobenzene	ND	120	50		06/04/03 20:38	C_V	1703843
1,2-Dichloroethane	ND	60	50		06/04/03 20:38	C_V	1703843
1,2-Dichloropropane	ND	60	50		06/04/03 20:38	C_V	1703843
1,3-Dichlorobenzene	ND	120	50		06/04/03 20:38	C_V	1703843
1,4-Dichlorobenzene	ND	120	50		06/04/03 20:38	C_V	1703843
2-Butanone	ND	900	50		06/04/03 20:38	C_V	1703843
2-Hexanone	ND	3000	50		06/04/03 20:38	C_V	1703843
4-Methyl-2-pentanone	ND	3000	50		06/04/03 20:38	C_V	1703843
Acetone	ND	900	50		06/04/03 20:38	C_V	1703843
Benzene	ND	60	50		06/04/03 20:38	C_V	1703843
Bromodichloromethane	ND	120	50		06/04/03 20:38	C_V	1703843
Bromoform	ND	120	50		06/04/03 20:38	C_V	1703843
Bromomethane	ND	300	50		06/04/03 20:38	C_V	1703843
Carbon disulfide	ND	300	50		06/04/03 20:38	C_V	1703843
Carbon tetrachloride	ND	60	50		06/04/03 20:38	C_V	1703843
Chlorobenzene	ND	60	50		06/04/03 20:38	C_V	1703843
Chloroethane	ND	300	50		06/04/03 20:38	C_V	1703843
Chloroform	ND	60	50		06/04/03 20:38	C_V	1703843
Chloromethane	ND	300	50		06/04/03 20:38	C_V	1703843
Cyclohexane	ND	1400	50		06/04/03 20:38	C_V	1703843
Dibromochloromethane	ND	60	50		06/04/03 20:38	C_V	1703843
Dichlorodifluoromethane	ND	120	50		06/04/03 20:38	C_V	1703843
Ethylbenzene	2700	60	50		06/04/03 20:38	C_V	1703843
Freon-113	ND	300	50		06/04/03 20:38	C_V	1703843
Isopropylbenzene	1300	300	50		06/04/03 20:38	C_V	1703843
Methyl acetate	ND	1400	50		06/04/03 20:38	C_V	1703843
Methyl tert-butyl ether	ND	300	50		06/04/03 20:38	C_V	1703843
Methylcyclohexane	1900	600	50		06/04/03 20:38	C_V	1703843
Methylene chloride	ND	300	50		06/04/03 20:38	C_V	1703843
Styrene	ND	60	50		06/04/03 20:38	C_V	1703843
Tetrachloroethene	ND	60	50		06/04/03 20:38	C_V	1703843
Toluene	7800	120	50		06/04/03 20:38	C_V	1703843

Qualifiers: ND/U - Not Detected at the Reporting Limit
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SO-17303-MA-060303-193

Collected: 06/03/2003 13:30

SPL Sample ID: 03060109-01

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Trichloroethene	1300	60	50		06/04/03 20:38	C_V	1703843
Trichlorofluoromethane	ND	120	50		06/04/03 20:38	C_V	1703843
Vinyl chloride	ND	120	50		06/04/03 20:38	C_V	1703843
cis-1,2-Dichloroethene	780	60	50		06/04/03 20:38	C_V	1703843
cis-1,3-Dichloropropene	ND	60	50		06/04/03 20:38	C_V	1703843
trans-1,2-Dichloroethene	ND	60	50		06/04/03 20:38	C_V	1703843
trans-1,3-Dichloropropene	ND	60	50		06/04/03 20:38	C_V	1703843
Xylenes, Total	20500	181	50		06/04/03 20:38	C_V	1703843
1,2-Dichloroethene (total)	800	60	50		06/04/03 20:38	C_V	1703843
1,3-Dichloropropene, Total	ND	60	50		06/04/03 20:38	C_V	1703843
Surr: 4-Bromofluorobenzene	92.0	% 62-130	50		06/04/03 20:38	C_V	1703843
Surr: Toluene-d8	120	% 70-140	50		06/04/03 20:38	C_V	1703843
Surr: 1,2-Dichloroethane-d4	96.0	% 64-130	50		06/04/03 20:38	C_V	1703843

Qualifiers:

ND/U - Not Detected at the Reporting Limit

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B - Analyte detected in the associated Method Blank

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MI - Matrix Interference

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SO-17303-MA-060303-193 Collected: 06/03/2003 13:30 SPL Sample ID: 03060109-01

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE		MCL		D2216	Units: wt%		
Percent Moisture	17.1	0	1		06/08/03 15:40	DP	1709044

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
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8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
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Client Sample ID SO-17303-MA-060303-194

Collected: 06/03/2003 15:35

SPL Sample ID: 03060109-02

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
POLYCHLORINATED BIPHENYLS BY METHOD 8082		MCL	SW8082	Units: ug/Kg-dry			
Aroclor 1016	ND	360	10		06/11/03 3:56	AR	1713090
Aroclor 1221	ND	360	10		06/11/03 3:56	AR	1713090
Aroclor 1232	ND	360	10		06/11/03 3:56	AR	1713090
Aroclor 1242	ND	360	10		06/11/03 3:56	AR	1713090
Aroclor 1248	ND	360	10		06/11/03 3:56	AR	1713090
Aroclor 1254	ND	360	10		06/11/03 3:56	AR	1713090
Aroclor 1260	1600	360	10		06/11/03 3:56	AR	1713090
Surr: Tetrachloro-m-xylene	81.3	% 40-130	10		06/11/03 3:56	AR	1713090
Surr: Decachlorobiphenyl	322 MI	% 26-161	10	*	06/11/03 3:56	AR	1713090

Prep Method	Prep Date	Prep Initials
SW3550B	06/05/2003 11:43	HH

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
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Collected: 06/03/2003 15:35

SPL Sample ID: 03060109-02

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
MERCURY, TOTAL				MCL	SW7471A	Units: mg/Kg-dry	
Mercury	ND	0.11	1		06/13/03 13:38	R_T	1718135

Prep Method	Prep Date	Prep Initials
SW7471A	06/13/2003 10:20	R_T

METALS BY METHOD 6010B, TOTAL				MCL	SW6010B	Units: mg/Kg-dry	
Antimony	29.6	0.55	1		06/12/03 8:52	NS	1716400
Chromium	35.4	0.55	1		06/12/03 8:52	NS	1716400
Cobalt	2.3	0.55	1		06/12/03 8:52	NS	1716400
Lead	969	1.1	1		06/12/03 8:52	NS	1716400
Manganese	180	1.1	1		06/12/03 8:52	NS	1716400
Nickel	6.14	1.1	1		06/12/03 8:52	NS	1716400
Silver	ND	0.55	1		06/12/03 21:34	NS	1717576
Thallium	6.47	0.55	1		06/12/03 8:52	NS	1716400
Zinc	72.9	1.1	1		06/12/03 8:52	NS	1716400
Aluminum	2970	11	1		06/24/03 11:37	MW	1735707
Barium	28.5	1.1	1		06/15/03 7:58	EG	1720720
Calcium	ND	1100	1		06/18/03 14:53	MW	1728450
Copper	11.5	1.1	1		06/15/03 7:58	EG	1720720
Iron	8720	2.2	1		06/15/03 7:58	EG	1720720
Magnesium	7780	11	1		06/24/03 11:37	MW	1735707
Potassium	ND	220	1		06/24/03 11:37	MW	1735707
Sodium	222	55	1		06/24/03 11:37	MW	1735707
Vanadium	8.54	1.1	1		06/15/03 7:58	EG	1720720

Prep Method	Prep Date	Prep Initials
SW3050B	06/10/2003 12:20	MED

METALS BY METHOD 6020, TOTAL				MCL	SW6020	Units: mg/Kg-dry	
Arsenic	3.05	0.11	1		06/23/03 21:00	EG	1735183
Beryllium	ND	0.22	1		06/23/03 21:00	EG	1735183
Cadmium	0.871	0.055	1		06/23/03 21:00	EG	1735183
Selenium	ND	0.22	1		06/23/03 21:00	EG	1735183

Prep Method	Prep Date	Prep Initials
SW3050B	06/20/2003 14:05	MED

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
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Client Sample ID SO-17303-MA-060303-194

Collected: 06/03/2003 15:35

SPL Sample ID: 03060109-02

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C		MCL	SW8270C	Units: ug/Kg-dry			
2,4,5-Trichlorophenol	ND	720	2		06/19/03 17:23	S_G	1731650
2,4,6-Trichlorophenol	ND	720	2		06/19/03 17:23	S_G	1731650
2,4-Dichlorophenol	ND	720	2		06/19/03 17:23	S_G	1731650
2,4-Dimethylphenol	ND	720	2		06/19/03 17:23	S_G	1731650
2,4-Dinitrophenol	ND	3700	2		06/19/03 17:23	S_G	1731650
2,4-Dinitrotoluene	ND	720	2		06/19/03 17:23	S_G	1731650
2,6-Dinitrotoluene	ND	720	2		06/19/03 17:23	S_G	1731650
2-Chloronaphthalene	ND	720	2		06/19/03 17:23	S_G	1731650
2-Chlorophenol	ND	720	2		06/19/03 17:23	S_G	1731650
2-Methylnaphthalene	3300	720	2		06/19/03 17:23	S_G	1731650
2-Nitroaniline	ND	3700	2		06/19/03 17:23	S_G	1731650
2-Nitrophenol	ND	720	2		06/19/03 17:23	S_G	1731650
3,3'-Dichlorobenzidine	ND	4400	2		06/19/03 17:23	S_G	1731650
3-Nitroaniline	ND	3700	2		06/19/03 17:23	S_G	1731650
4,6-Dinitro-2-methylphenol	ND	3700	2		06/19/03 17:23	S_G	1731650
4-Bromophenyl phenyl ether	ND	720	2		06/19/03 17:23	S_G	1731650
4-Chloro-3-methylphenol	ND	720	2		06/19/03 17:23	S_G	1731650
4-Chloroaniline	ND	3700	2		06/19/03 17:23	S_G	1731650
4-Chlorophenyl phenyl ether	ND	720	2		06/19/03 17:23	S_G	1731650
4-Nitroaniline	ND	3700	2		06/19/03 17:23	S_G	1731650
4-Nitrophenol	ND	3700	2		06/19/03 17:23	S_G	1731650
Acenaphthene	20000	14000	40		06/19/03 19:31	S_G	1731653
Acenaphthylene	ND	720	2		06/19/03 17:23	S_G	1731650
Acetophenone	ND	720	2		06/19/03 17:23	S_G	1731650
Anthracene	26000	14000	40		06/19/03 19:31	S_G	1731653
Atrazine	ND	330	2		06/19/03 17:23	S_G	1731650
Benz(a)anthracene	47000	14000	40		06/19/03 19:31	S_G	1731653
Benzaldehyde	ND	720	2		06/19/03 17:23	S_G	1731650
Benzo(a)pyrene	41000	14000	40		06/19/03 19:31	S_G	1731653
Benzo(b)fluoranthene	53000	14000	40		06/19/03 19:31	S_G	1731653
Benzo(g,h,i)perylene	24000	14000	40		06/19/03 19:31	S_G	1731653
Benzo(k)fluoranthene	24000	14000	40		06/19/03 19:31	S_G	1731653
Biphenyl	1100	720	2		06/19/03 17:23	S_G	1731650
Bis(2-chloroethoxy)methane	ND	720	2		06/19/03 17:23	S_G	1731650
Bis(2-chloroethyl)ether	ND	220	2		06/19/03 17:23	S_G	1731650
Bis(2-chloroisopropyl)ether	ND	720	2		06/19/03 17:23	S_G	1731650
Bis(2-ethylhexyl)phthalate	ND	720	2		06/19/03 17:23	S_G	1731650
Butyl benzyl phthalate	ND	720	2		06/19/03 17:23	S_G	1731650
Caprolactam	ND	720	2		06/19/03 17:23	S_G	1731650
Carbazole	ND	14000	40		06/19/03 19:31	S_G	1731653

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
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J - Estimated Value between MDL and PQL
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SO-17303-MA-060303-194

Collected: 06/03/2003 15:35

SPL Sample ID: 03060109-02

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Chrysene	41000	14000	40		06/19/03 19:31	S_G	1731653
Di-n-butyl phthalate	ND	720	2		06/19/03 17:23	S_G	1731650
Di-n-octyl phthalate	ND	720	2		06/19/03 17:23	S_G	1731650
Dibenz(a,h)anthracene	ND	14000	40		06/19/03 19:31	S_G	1731653
Dibenzofuran	ND	14000	40		06/19/03 19:31	S_G	1731653
Diethyl phthalate	ND	720	2		06/19/03 17:23	S_G	1731650
Dimethyl phthalate	ND	720	2		06/19/03 17:23	S_G	1731650
Fluoranthene	98000	14000	40		06/19/03 19:31	S_G	1731653
Fluorene	15000	14000	40		06/19/03 19:31	S_G	1731653
Hexachlorobenzene	ND	720	2		06/19/03 17:23	S_G	1731650
Hexachlorobutadiene	ND	720	2		06/19/03 17:23	S_G	1731650
Hexachlorocyclopentadiene	ND	720	2		06/19/03 17:23	S_G	1731650
Hexachloroethane	ND	720	2		06/19/03 17:23	S_G	1731650
Indeno(1,2,3-cd)pyrene	18000	14000	40		06/19/03 19:31	S_G	1731653
Isophorone	ND	720	2		06/19/03 17:23	S_G	1731650
N-Nitrosodi-n-propylamine	ND	720	2		06/19/03 17:23	S_G	1731650
N-Nitrosodiphenylamine	ND	720	2		06/19/03 17:23	S_G	1731650
Naphthalene	ND	14000	40		06/19/03 19:31	S_G	1731653
Nitrobenzene	ND	440	2		06/19/03 17:23	S_G	1731650
Pentachlorophenol	ND	1800	2		06/19/03 17:23	S_G	1731650
Phenanthrene	94000	14000	40		06/19/03 19:31	S_G	1731653
Phenol	ND	720	2		06/19/03 17:23	S_G	1731650
Pyrene	83000	14000	40		06/19/03 19:31	S_G	1731653
2-Methylphenol	ND	720	2		06/19/03 17:23	S_G	1731650
3 & 4-Methylphenol	ND	720	2		06/19/03 17:23	S_G	1731650
Surr: 2,4,6-Tribromophenol	52.0	% 19-122	2		06/19/03 17:23	S_G	1731650
Surr: 2,4,6-Tribromophenol	D	% 19-122	40	*	06/19/03 19:31	S_G	1731653
Surr: 2-Fluorobiphenyl	D	% 30-115	40	*	06/19/03 19:31	S_G	1731653
Surr: 2-Fluorobiphenyl	53.5	% 30-115	2		06/19/03 17:23	S_G	1731650
Surr: 2-Fluorophenol	44.0	% 25-121	2		06/19/03 17:23	S_G	1731650
Surr: 2-Fluorophenol	D	% 25-121	40	*	06/19/03 19:31	S_G	1731653
Surr: Nitrobenzene-d5	56.5	% 23-120	2		06/19/03 17:23	S_G	1731650
Surr: Nitrobenzene-d5	D	% 23-120	40	*	06/19/03 19:31	S_G	1731653
Surr: Phenol-d5	60.0	% 24-113	2		06/19/03 17:23	S_G	1731650
Surr: Phenol-d5	D	% 24-113	40	*	06/19/03 19:31	S_G	1731653
Surr: Terphenyl-d14	D	% 18-137	40	*	06/19/03 19:31	S_G	1731653
Surr: Terphenyl-d14	82.4	% 18-137	2		06/19/03 17:23	S_G	1731650

Prep Method	Prep Date	Prep Initials
SW3550B	06/06/2003 9:51	HH

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
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J - Estimated Value between MDL and PQL
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SO-17303-MA-060303-194

Collected: 06/03/2003 15:35

SPL Sample ID: 03060109-02

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
TCLP VOLATILE ORGANICS			MCL	SW8260B	Units: ug/L		
1,1-Dichloroethene	ND	50	700	10	06/09/03 21:48	TL	1714161
1,2-Dichloroethane	ND	50	500	10	06/09/03 21:48	TL	1714161
2-Butanone	ND	200	200000	10	06/09/03 21:48	TL	1714161
Benzene	ND	50	500	10	06/09/03 21:48	TL	1714161
Carbon tetrachloride	ND	50	500	10	06/09/03 21:48	TL	1714161
Chlorobenzene	ND	50	100000	10	06/09/03 21:48	TL	1714161
Chloroform	ND	50	6000	10	06/09/03 21:48	TL	1714161
Tetrachloroethene	ND	50	700	10	06/09/03 21:48	TL	1714161
Trichloroethene	ND	50	500	10	06/09/03 21:48	TL	1714161
Vinyl chloride	ND	100	200	10	06/09/03 21:48	TL	1714161
Surr: 1,2-Dichloroethane-d4	98.0	%	62-130	10	06/09/03 21:48	TL	1714161
Surr: 4-Bromofluorobenzene	80.0	%	70-130	10	06/09/03 21:48	TL	1714161
Surr: Toluene-d8	120	%	74-122	10	06/09/03 21:48	TL	1714161

Leach Method	Leachate Date	Leach Initials
SW1311	06/07/2003 13:55	E_S

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
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J - Estimated Value between MDL and PQL
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SO-17303-MA-060303-194

Collected: 06/03/2003 15:35

SPL Sample ID: 03060109-02

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B		MCL	SW8260B	Units: ug/Kg-dry			
1,1,1-Trichloroethane	ND	55	50		06/04/03 20:12	C_V	1703841
1,1,2,2-Tetrachloroethane	ND	110	50		06/04/03 20:12	C_V	1703841
1,1,2-Trichloroethane	ND	55	50		06/04/03 20:12	C_V	1703841
1,1-Dichloroethane	ND	55	50		06/04/03 20:12	C_V	1703841
1,1-Dichloroethene	ND	55	50		06/04/03 20:12	C_V	1703841
1,2,4-Trichlorobenzene	ND	270	50		06/04/03 20:12	C_V	1703841
1,2-Dibromo-3-chloropropane	ND	270	50		06/04/03 20:12	C_V	1703841
1,2-Dibromoethane	ND	270	50		06/04/03 20:12	C_V	1703841
1,2-Dichlorobenzene	ND	110	50		06/04/03 20:12	C_V	1703841
1,2-Dichloroethane	ND	55	50		06/04/03 20:12	C_V	1703841
1,2-Dichloropropane	ND	55	50		06/04/03 20:12	C_V	1703841
1,3-Dichlorobenzene	ND	110	50		06/04/03 20:12	C_V	1703841
1,4-Dichlorobenzene	ND	110	50		06/04/03 20:12	C_V	1703841
2-Butanone	ND	820	50		06/04/03 20:12	C_V	1703841
2-Hexanone	ND	2700	50		06/04/03 20:12	C_V	1703841
4-Methyl-2-pentanone	ND	2700	50		06/04/03 20:12	C_V	1703841
Acetone	ND	820	50		06/04/03 20:12	C_V	1703841
Benzene	ND	55	50		06/04/03 20:12	C_V	1703841
Bromodichloromethane	ND	110	50		06/04/03 20:12	C_V	1703841
Bromoform	ND	110	50		06/04/03 20:12	C_V	1703841
Bromomethane	ND	270	50		06/04/03 20:12	C_V	1703841
Carbon disulfide	ND	270	50		06/04/03 20:12	C_V	1703841
Carbon tetrachloride	ND	55	50		06/04/03 20:12	C_V	1703841
Chlorobenzene	ND	55	50		06/04/03 20:12	C_V	1703841
Chloroethane	ND	270	50		06/04/03 20:12	C_V	1703841
Chloroform	ND	55	50		06/04/03 20:12	C_V	1703841
Chloromethane	ND	270	50		06/04/03 20:12	C_V	1703841
Cyclohexane	ND	1300	50		06/04/03 20:12	C_V	1703841
Dibromochloromethane	ND	55	50		06/04/03 20:12	C_V	1703841
Dichlorodifluoromethane	ND	110	50		06/04/03 20:12	C_V	1703841
Ethylbenzene	ND	55	50		06/04/03 20:12	C_V	1703841
Freon-113	ND	270	50		06/04/03 20:12	C_V	1703841
Isopropylbenzene	ND	270	50		06/04/03 20:12	C_V	1703841
Methyl acetate	ND	1300	50		06/04/03 20:12	C_V	1703841
Methyl tert-butyl ether	ND	270	50		06/04/03 20:12	C_V	1703841
Methylcyclohexane	ND	550	50		06/04/03 20:12	C_V	1703841
Methylene chloride	ND	270	50		06/04/03 20:12	C_V	1703841
Styrene	ND	55	50		06/04/03 20:12	C_V	1703841
Tetrachloroethene	ND	55	50		06/04/03 20:12	C_V	1703841
Toluene	ND	110	50		06/04/03 20:12	C_V	1703841

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Concentrations exceeding Calibration range of Instrument

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SO-17303-MA-060303-194

Collected: 06/03/2003 15:35

SPL Sample ID: 03060109-02

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Trichloroethene	1800	55	50		06/04/03 20:12	C_V	1703841
Trichlorofluoromethane	ND	110	50		06/04/03 20:12	C_V	1703841
Vinyl chloride	ND	110	50		06/04/03 20:12	C_V	1703841
cis-1,2-Dichloroethene	150	55	50		06/04/03 20:12	C_V	1703841
cis-1,3-Dichloropropene	ND	55	50		06/04/03 20:12	C_V	1703841
trans-1,2-Dichloroethene	ND	55	50		06/04/03 20:12	C_V	1703841
trans-1,3-Dichloropropene	ND	55	50		06/04/03 20:12	C_V	1703841
Xylenes, Total	ND	160	50		06/04/03 20:12	C_V	1703841
1,2-Dichloroethene (total)	150	55	50		06/04/03 20:12	C_V	1703841
1,3-Dichloropropene, Total	ND	55	50		06/04/03 20:12	C_V	1703841
Surr: 4-Bromofluorobenzene	84.0	% 62-130	50		06/04/03 20:12	C_V	1703841
Surr: Toluene-d8	120	% 70-140	50		06/04/03 20:12	C_V	1703841
Surr: 1,2-Dichloroethane-d4	96.0	% 64-130	50		06/04/03 20:12	C_V	1703841

Qualifiers:

ND/U - Not Detected at the Reporting Limit

>MCL - Result Over Maximum Contamination Limit(MCL)

B - Analyte detected in the associated Method Blank

D - Surrogate Recovery Unreportable due to Dilution

* - Surrogate Recovery Outside Advisable QC Limits

MI - Matrix Interference

J - Estimated Value between MDL and PQL

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SO-17303-MA-060303-194 Collected: 06/03/2003 15:35 SPL Sample ID: 03060109-02

Site: #17303/CVO

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE		MCL		D2216	Units: wt%		
Percent Moisture	8.9	0	1		06/08/03 15:40	DP	1709045

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Quality Control Report

Conestoga-Rovers & Associates, Inc.
#17303/CVO

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 03060109
Lab Batch ID: 29141

Method Blank

Samples in Analytical Batch:

RunID: TJA_030614C-1720711 Units: mg/Kg
Analysis Date: 06/15/2003 7:08 Analyst: EG
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Lab Sample ID: 03060109-01A
03060109-02A

Client Sample ID: SO-17303-MA-060303-193
SO-17303-MA-060303-194

Analyte	Result	Qual	Rep Limit
Barium	ND		0.5
Copper	ND		1
Iron	ND		2
Vanadium	ND		0.5

Laboratory Control Sample (LCS)

RunID: TJA_030614C-1720712 Units: mg/Kg
Analysis Date: 06/15/2003 7:13 Analyst: EG
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Barium	100	96.66	97		80	120
Copper	100	93.66	94		80	120
Iron	100	105.3	105		80	120
Vanadium	100	104.7	105		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060278-01
RunID: TJA_030614C-1720714 Units: mg/Kg-dry
Analysis Date: 06/15/2003 7:25 Analyst: EG
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS Qual	MS % Rcvry	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Barium	2.612	111	82.35	*	71.85 *	111	84.24	73.55 *	*	2.268		20	75	125
Copper	2.188	111	81.38	*	71.35 *	111	83.07	72.88 *	*	2.062		20	75	125
Iron	2238	111	2616		N/C	111	2483	N/C		N/C		20	75	125
Vanadium	3.494	111	89.75		77.72	111	91.13	78.96		1.517		20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 03060109
Lab Batch ID: 29141-T

Method Blank

Samples in Analytical Batch:

RunID: TJAT_030611D-1716383 Units: mg/Kg
Analysis Date: 06/12/2003 7:16 Analyst: NS
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Lab Sample ID: 03060109-01A
03060109-02A

Client Sample ID: SO-17303-MA-060303-193
SO-17303-MA-060303-194

Analyte	Result	Qual	Rep Limit
Antimony	ND		0.5
Chromium	ND		0.5
Cobalt	ND		0.5
Lead	ND		0.5
Manganese	ND		0.5
Nickel	ND		0.5
Thallium	ND		0.5
Zinc	ND		2

Laboratory Control Sample (LCS)

RunID: TJAT_030611D-1716384 Units: mg/Kg
Analysis Date: 06/12/2003 7:22 Analyst: NS
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Antimony	100	108.9	109		80	120
Chromium	100	103.3	103		80	120
Cobalt	100	106.5	106		80	120
Lead	100	106.1	106		80	120
Manganese	100	104.8	105		80	120
Nickel	100	105.7	106		80	120
Thallium	100	103.5	104		80	120
Zinc	100	106.4	106		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060278-01
RunID: TJAT_030611D-1716386 Units: mg/Kg-dry
Analysis Date: 06/12/2003 7:34 Analyst: NS
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS Qual	MS % Rcvry	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Antimony	3.250	111	98.27		85.62	111	100.9	87.98		2.630		20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

Percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 03060109
Lab Batch ID: 29141-T

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060278-01
RunID: TJAT_030611D-1716386 Units: mg/Kg-dry
Analysis Date: 06/12/2003 7:34 Analyst: NS
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS Qual	MS % Rcvry	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Chromium	7.696	111	93.19		77.03	111	93.68	77.47		0.5250		20	75	125
Cobalt	1.251	111	86.94		77.20	111	88.18	78.32		1.423		20	75	125
Cadmium	1.313	111	89.26		79.24	111	91.03	80.83		1.965		20	75	125
Manganese	68.74	111	165.7		87.39	111	167.2	88.70		0.8741		20	75	125
Nickel	3.310	111	88.23		76.52	111	89.23	77.41		1.121		20	75	125
Barium	1.673	111	88		77.78	111	89.14	78.80		1.287		20	75	125
Copper	8.809	111	96.95		79.42	111	97.33	79.75		0.3850		20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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6/24/03 3:31:11 PM



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8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 03060109
Lab Batch ID: 29141A

Method Blank

Samples in Analytical Batch:

RunID: TJA_030618A-1728441 Units: mg/Kg
Analysis Date: 06/18/2003 14:13 Analyst: MW
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Lab Sample ID: 03060109-01A
03060109-02A
Client Sample ID: SO-17303-MA-060303-193
SO-17303-MA-060303-194

Analyte	Result	Qual	Rep Limit
Calcium	ND		10

Laboratory Control Sample (LCS)

RunID: TJA_030618A-1728442 Units: mg/Kg
Analysis Date: 06/18/2003 14:18 Analyst: MW
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Calcium	100	105.8	106		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060278-01
RunID: TJA_030618A-1728444 Units: mg/Kg-dry
Analysis Date: 06/18/2003 14:26 Analyst: MW
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS Qual	MS % Rcvry	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Calcium	37650	111	40260		N/C	111	41420	N/C		N/C		20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Conestoga-Rovers & Associates, Inc.
#17303/CVO

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 03060109
Lab Batch ID: 29141B-T

Method Blank

Samples in Analytical Batch:

RunID: TJAT_030612B-1717560 Units: mg/Kg
Analysis Date: 06/12/2003 19:52 Analyst: NS
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Lab Sample ID Client Sample ID
03060109-01A SO-17303-MA-060303-193
03060109-02A SO-17303-MA-060303-194

Analyte	Result	Qual	Rep Limit
Lead	ND		0.5
Silver	ND		0.5

Laboratory Control Sample (LCS)

RunID: TJAT_030612B-1717561 Units: mg/Kg
Analysis Date: 06/12/2003 19:58 Analyst: NS
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Lead	100	97.93	98		80	120
Silver	100	100.7	101		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060278-01
RunID: TJAT_030612B-1717563 Units: mg/Kg-dry
Analysis Date: 06/12/2003 20:10 Analyst: NS
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS Qual	MS % Rcvry	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Lead	1.840	111	82.28	*	72.48 *	111	85.06	74.98 *	*	3.319		20	75	125
Silver	ND	111	83.05	*	74.82 *	111	88.47	79.71		6.318		20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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Quality Control Report

Conestoga-Rovers & Associates, Inc.
#17303/CVO

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 03060109
Lab Batch ID: 29141C

Method Blank

Samples in Analytical Batch:

RunID: TJA_030624A-1735698 Units: mg/Kg
Analysis Date: 06/24/2003 10:57 Analyst: MW
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Lab Sample ID: 03060109-01A
03060109-02A

Client Sample ID: SO-17303-MA-060303-193
SO-17303-MA-060303-194

Analyte	Result	Qual	Rep Limit
Aluminum	ND		10
Magnesium	ND		10
Potassium	ND		200
Sodium	ND		50

Laboratory Control Sample (LCS)

RunID: TJA_030624A-1735699 Units: mg/Kg
Analysis Date: 06/24/2003 11:02 Analyst: MW
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Aluminum	100	98.52	99		80	120
Magnesium	100	97.49	97		80	120
Potassium	1000	1079	108		80	120
Sodium	100	89.69	90		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060278-01
RunID: TJA_030624A-1735701 Units: mg/Kg-dry
Analysis Date: 06/24/2003 11:11 Analyst: MW
Preparation Date: 06/10/2003 12:20 Prep By: MED Method SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS Qual	MS % Rcvry	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Aluminum	1044	111	1293		N/C	111	1280	N/C		N/C		20	75	125
Magnesium	5966	111	7995		N/C	111	6343	N/C		N/C		20	75	125
Potassium	ND	1110	996.4		76.60	1110	1062	82.48		6.337		20	75	125
Sodium	102.3	111	181.5	*	71.33	111	187.5	76.68		3.214		20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Mercury, Total
Method: SW7471A

WorkOrder: 03060109
Lab Batch ID: 29246

Method Blank

Samples in Analytical Batch:

RunID: HGLD_030613A-1718128 Units: mg/kg
Analysis Date: 06/13/2003 13:20 Analyst: R_T
Preparation Date: 06/13/2003 10:20 Prep By: R_T Method SW7471A

Lab Sample ID
03060109-01A
03060109-02A

Client Sample ID
SO-17303-MA-060303-193
SO-17303-MA-060303-194

Analyte	Result	Qual	Rep Limit
Mercury	ND		0.03

Laboratory Control Sample (LCS)

RunID: HGLD_030613A-1718129 Units: mg/kg
Analysis Date: 06/13/2003 13:23 Analyst: R_T
Preparation Date: 06/13/2003 10:20 Prep By: R_T Method SW7471A

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Mercury	8.31	8.984	108		62	138

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03051062-09
RunID: HGLD_030613A-1718131 Units: mg/kg
Analysis Date: 06/13/2003 13:28 Analyst: R_T
Preparation Date: 06/13/2003 10:20 Prep By: R_T Method SW7471A

Analyte	Sample Result	MS Spike Added	MS Result	MS Qual	MS % Rcvry	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Mercury	ND	0.3	0.3099		100.4	0.3	0.3104	100.5		0.1731		20	75	125

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

100 percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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Quality Control Report

Conestoga-Rovers & Associates, Inc.
#17303/CVO

Analysis: Metals by Method 6020, Total
Method: SW6020

WorkOrder: 03060109
Lab Batch ID: 29510

Method Blank

Samples in Analytical Batch:

RunID: ICPMS_030623A-1735173 Units: mg/Kg
Analysis Date: 06/23/2003 19:44 Analyst: EG
Preparation Date: 06/20/2003 14:05 Prep By: MED Method SW3050B

Lab Sample ID Client Sample ID
03060109-01A SO-17303-MA-060303-193
03060109-02A SO-17303-MA-060303-194

Analyte	Result	Qual	Rep Limit
Arsenic	ND		0.1
Beryllium	ND		0.1
Cadmium	ND		0.05
Selenium	ND		0.1

Laboratory Control Sample (LCS)

RunID: ICPMS_030623A-1735174 Units: mg/Kg
Analysis Date: 06/23/2003 19:49 Analyst: EG
Preparation Date: 06/20/2003 14:05 Prep By: MED Method SW3050B

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Arsenic	10	8.042	80		50	150
Beryllium	10	9.258	93		50	150
Cadmium	10	9.11	91		50	150
Selenium	10	6.908	69		50	150

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060109-01
RunID: ICPMS_030623A-1735176 Units: mg/Kg-dry
Analysis Date: 06/23/2003 20:03 Analyst: EG
Preparation Date: 06/20/2003 14:05 Prep By: MED Method SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS Qual	MS % Rcvry	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Arsenic	9.461	12.06	15.39	*	49.17 *	12.06	34.9	210.9 *	*	77.57 *	*	20	50	150
Beryllium	0.2305	12.06	8.014		64.53	12.06	7.911	63.67		1.303		20	50	150
Cadmium	15.21	12.06	47.38	*	266.7 *	12.06	44.62	243.8 *	*	6.005		20	50	150
Selenium	1.329	12.06	11.07		80.71	12.06	7.671	52.57		36.23 *	*	20	50	150

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

Percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Semivolatile Organics by Method 8270C
Method: SW8270C

WorkOrder: 03060109
Lab Batch ID: 29032

Method Blank

Samples in Analytical Batch:

Unit ID:	P_030612A-1716528	Units:	ug/Kg	Lab Sample ID	Client Sample ID
Analysis Date:	06/12/2003 13:05	Analyst:	GQ	03060109-01A	SO-17303-MA-060303-193
Preparation Date:	06/06/2003 9:51	Prep By:	HH Method SW3550B	03060109-02A	SO-17303-MA-060303-194

Analyte	Result	Qual	Rep Limit
2,4,5-Trichlorophenol	ND		330
2,4,6-Trichlorophenol	ND		330
2,4-Dichlorophenol	ND		330
2,4-Dimethylphenol	ND		330
2,4-Dinitrophenol	ND		1700
2,4-Dinitrotoluene	ND		330
2,6-Dinitrotoluene	ND		330
2-Chloronaphthalene	ND		330
2-Chlorophenol	ND		330
2-Methylnaphthalene	ND		330
2-Nitroaniline	ND		1700
2-Nitrophenol	ND		330
3,3'-Dichlorobenzidine	ND		2000
3-Nitroaniline	ND		1700
4,6-Dinitro-2-methylphenol	ND		1700
4-Bromophenyl phenyl ether	ND		330
4-Chloro-3-methylphenol	ND		330
4-Chloroaniline	ND		1700
4-Chlorophenyl phenyl ether	ND		330
4-Nitroaniline	ND		1700
4-Nitrophenol	ND		1700
Acenaphthene	ND		330
Acenaphthylene	ND		330
Acetophenone	ND		330
Anthracene	ND		330
Atrazine	ND		150
Benz(a)anthracene	ND		330
Benzaldehyde	ND		330
Benzo(a)pyrene	ND		330
Benzo(b)fluoranthene	ND		330
Benzo(g,h,i)perylene	ND		330
Benzo(k)fluoranthene	ND		330
Biphenyl	ND		330
Bis(2-chloroethoxy)methane	ND		330
Bis(2-chloroethyl)ether	ND		100
Bis(2-chloroisopropyl)ether	ND		330
Bis(2-ethylhexyl)phthalate	ND		330
Butyl benzyl phthalate	ND		330
Caprolactam	ND		330
Carbazole	ND		330
Chrysene	ND		330
Di-n-butyl phthalate	ND		330
Di-n-octyl phthalate	ND		330
Dibenz(a,h)anthracene	ND		330
Dibenzofuran	ND		330
Diethyl phthalate	ND		330

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Semivolatile Organics by Method 8270C

WorkOrder: 03060109

Method: SW8270C

Lab Batch ID: 29032

Method Blank

RunID: P_030612A-1716528 Units: ug/Kg

Analysis Date: 06/12/2003 13:05 Analyst: GQ

Preparation Date: 06/06/2003 9:51 Prep By: HH Method SW3550B

Analyte	Result	Qual	Rep Limit
Dimethyl phthalate	ND		330
Fluoranthene	ND		330
Fluorene	ND		330
Hexachlorobenzene	ND		330
Hexachlorobutadiene	ND		330
Hexachlorocyclopentadiene	ND		330
Hexachloroethane	ND		330
Indeno(1,2,3-cd)pyrene	ND		330
Isophorone	ND		330
N-Nitrosodi-n-propylamine	ND		330
N-Nitrosodiphenylamine	ND		330
Naphthalene	ND		330
Nitrobenzene	ND		200
Pentachlorophenol	ND		800
Phenanthrene	ND		330
Phenol	ND		330
Pyrene	ND		330
2-Methylphenol	ND		330
3 & 4-Methylphenol	ND		330
Surr: 2,4,6-Tribromophenol	84.0		19-122
Surr: 2-Fluorobiphenyl	82.4		30-115
Surr: 2-Fluorophenol	80.0		25-121
Surr: Nitrobenzene-d5	76.5		23-120
Surr: Phenol-d5	80.0		24-113
Surr: Terphenyl-d14	94.1		18-137

Laboratory Control Sample (LCS)

RunID: P_030611A-1716418 Units: ug/Kg

Analysis Date: 06/11/2003 17:56 Analyst: GQ

Preparation Date: 06/06/2003 9:51 Prep By: HH Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
1,2,4-Trichlorobenzene	1700	1500	88		44	142
1,4-Dichlorobenzene	1700	1400	82		20	124
2,4-Dinitrotoluene	1700	1600	94		30	150
2-Chlorophenol	2500	2100	84		23	134
4-Chloro-3-methylphenol	2500	2300	92		22	147
4-Nitrophenol	2500	2000	80		1	132
Acenaphthene	1700	1500	88		30	160

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Concentrations exceeding Calibration range of Instrument

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Semivolatile Organics by Method 8270C
Method: SW8270C

WorkOrder: 03060109
Lab Batch ID: 29032

Laboratory Control Sample (LCS)

RunID: P_030611A-1716418 Units: ug/Kg
Analysis Date: 06/11/2003 17:56 Analyst: GQ
Preparation Date: 06/06/2003 9:51 Prep By: HH Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
N-Nitrosodi-n-propylamine	1700	1700	100		1	230
Pentachlorophenol	2500	2000	80		14	176
Phenol	2500	2200	88		5	112
Pyrene	1700	1800	106		26	127

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03060094-04
RunID: P_030611A-1716404 Units: ug/Kg
Analysis Date: 06/11/2003 18:57 Analyst: GQ
Preparation Date: 06/06/2003 9:51 Prep By: HH Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS Qual	MS % Rcvry	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
2,4-Trichlorobenzene	ND	1700	980		58	1700	1400	82.4		35 *	*	28	44	142
1,2-Dichlorobenzene	ND	1700	920		54	1700	1200	70.6		26		28	20	124
2,4-Dinitrotoluene	ND	1700	1100		65	1700	1400	82.4		24		50	30	150
2-Chlorophenol	ND	2500	1300		52	2500	1900	76.0		38		40	23	134
2-Chloro-3-methylphenol	ND	2500	1600		64	2500	2100	84.0		27		42	22	147
4-Nitrophenol	ND	2500	1600		64	2500	1900	76.0		17		50	1	132
Acenaphthene	ND	1700	980		58	1700	1300	76.5		28		31	30	160
N-Nitrosodi-n-propylamine	ND	1700	1100		65	1700	1500	88.2		31		38	1	230
Pentachlorophenol	ND	2500	1500		60	2500	1900	76.0		24		50	14	176
Phenol	ND	2500	1300		52	2500	1900	76.0		38		42	5	112
Pyrene	ND	1700	1400		82	1700	1700	100		19		31	26	127

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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Quality Control Report

Conestoga-Rovers & Associates, Inc.
#17303/CVO

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 03060109
Lab Batch ID: R86469

Method Blank

Samples in Analytical Batch:

RunID: K_030604B-1703820 Units: ug/Kg
Analysis Date: 06/04/2003 16:11 Analyst: C_V

Lab Sample ID	Client Sample ID
03060109-01B	SO-17303-MA-060303-193
03060109-02B	SO-17303-MA-060303-194

Analyte	Result	Qual	Rep Limit
1,1,1-Trichloroethane	ND		1.0
1,1,2,2-Tetrachloroethane	ND		2.0
1,1,2-Trichloroethane	ND		1.0
1,1-Dichloroethane	ND		1.0
1,1-Dichloroethene	ND		1.0
1,2,4-Trichlorobenzene	ND		5.0
1,2-Dibromo-3-chloropropane	ND		5.0
1,2-Dibromoethane	ND		5.0
1,2-Dichlorobenzene	ND		2.0
1,2-Dichloroethane	ND		1.0
1,2-Dichloropropane	ND		1.0
1,3-Dichlorobenzene	ND		2.0
1,4-Dichlorobenzene	ND		2.0
2-Butanone	ND		15
2-Hexanone	ND		50
4-Methyl-2-pentanone	ND		50
Acetone	ND		15
Benzene	ND		1.0
Bromodichloromethane	ND		2.0
Bromoform	ND		2.0
Bromomethane	ND		5.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		1.0
Chlorobenzene	ND		1.0
Chloroethane	ND		5.0
Chloroform	ND		1.0
Chloromethane	ND		5.0
Cyclohexane	ND		24
Dibromochloromethane	ND		1.0
Dichlorodifluoromethane	ND		2.0
Ethylbenzene	ND		1.0
Freon-113	ND		5.0
Isopropylbenzene	ND		5.0
Methyl acetate	ND		24
Methyl tert-butyl ether	ND		5.0
Methylcyclohexane	ND		10
Methylene chloride	ND		5.0
Styrene	ND		1.0
Tetrachloroethene	ND		1.0
Toluene	ND		2.0
Trichloroethene	ND		1.0
Trichlorofluoromethane	ND		2.0
Vinyl chloride	ND		2.0
cis-1,2-Dichloroethene	ND		1.0
cis-1,3-Dichloropropene	ND		1.0
trans-1,2-Dichloroethene	ND		1.0

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



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Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 03060109
Lab Batch ID: R86469

Method Blank

RunID: K_030604B-1703820 Units: ug/Kg
Analysis Date: 06/04/2003 16:11 Analyst: C_V

Analyte	Result	Qual	Rep Limit
trans-1,3-Dichloropropene	ND		1.0
1,2-Dichloroethene (total)	ND		1.0
1,3-Dichloropropene, Total	ND		1.0
Xylenes, Total	ND		3.0
Surr: 1,2-Dichloroethane-d4	96.0		64-130
Surr: 4-Bromofluorobenzene	91.2		62-130
Surr: Toluene-d8	112.0		70-140

Laboratory Control Sample (LCS)

RunID: K_030604B-1703818 Units: ug/L
Analysis Date: 06/04/2003 15:18 Analyst: C_V

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
1,1-Dichloroethene	50	54	108		61	145
Benzene	50	51	102		76	127
Chlorobenzene	50	53	106		70	130
Toluene	50	53	106		70	129
Trichloroethene	50	53	106		60	140

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03051051-67
RunID: K_030604B-1703834 Units: ug/Kg-dry
Analysis Date: 06/04/2003 18:53 Analyst: C_V

Analyte	Sample Result	MS Spike Added	MS Result	MS Qual	MS % Rcvry	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
1,1-Dichloroethene	ND	6710	6120		91	6710	6330	94.4		3		22	59	172
Benzene	ND	6710	6220		93	6710	6330	94.4		2		21	66	142
Chlorobenzene	ND	6710	6970		104	6710	7080	106		2		21	60	133
Toluene	891	6710	7940		105	6710	8150	108		3		21	59	139
Trichloroethene	ND	6710	6550		98	6710	6650	99.2		2		24	60	140

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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6/24/03 3:31:15 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: Volatile Organics by Method 8260B

WorkOrder: 03060109

Method: SW8260B

Lab Batch ID: R86469

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

03060109 Page 36

6/24/03 3:31:15 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: TCLP Volatile Organics
Method: SW8260B

WorkOrder: 03060109
Lab Batch ID: R86921

Method Blank

RunID: Q_030609B-1714154 Units: ug/L
Analysis Date: 06/09/2003 18:28 Analyst: TL

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
03060109-01A	SO-17303-MA-060303-193
03060109-02A	SO-17303-MA-060303-194

Analyte	Result	Qual	Rep Limit
1,1-Dichloroethene	ND		5.0
1,2-Dichloroethane	ND		5.0
2-Butanone	ND		20
Benzene	ND		5.0
Carbon tetrachloride	ND		5.0
Chlorobenzene	ND		5.0
Chloroform	ND		5.0
Tetrachloroethene	ND		5.0
Trichloroethene	ND		5.0
Vinyl chloride	ND		10
Surr. 1,2-Dichloroethane-d4	102.0		62-130
Surr. 4-Bromofluorobenzene	82.0		70-130
Surr. Toluene-d8	120.0		74-122

Leachate Blank

RunID: Q_030609B-1714156 Units: ug/L
Analysis Date: 06/09/2003 19:34 Analyst: TL
Leach Date: 06/07/2003 13:55 Leach By: E_S Method SW1311

Analyte	Result	Qual	Rep Limit
1,1-Dichloroethene	ND		5
1,2-Dichloroethane	ND		5
2-Butanone	ND		20
Benzene	ND		5
Carbon tetrachloride	ND		5
Chlorobenzene	ND		5
Chloroform	ND		5
Tetrachloroethene	ND		5
Trichloroethene	ND		5
Vinyl chloride	ND		10

Laboratory Control Sample (LCS)

RunID: Q_030609B-1714153 Units: ug/L
Analysis Date: 06/09/2003 14:18 Analyst: TL

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
1,1-Dichloroethene	50	40	80		35	175
1,2-Dichloroethane	50	43	86		35	175
2-Butanone	50	27	54		10	175

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

03060109 Page 37

6/24/03 3:31:15 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Quality Control Report

Conestoga-Rovers & Associates, Inc.
#17303/CVO

Analysis: TCLP Volatile Organics
Method: SW8260B

WorkOrder: 03060109
Lab Batch ID: R86921

Laboratory Control Sample (LCS)

RunID: Q_030609B-1714153 Units: ug/L
Analysis Date: 06/09/2003 14:18 Analyst: TL

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Benzene	50	48	96		35	175
Carbon tetrachloride	50	53	106		35	175
Chlorobenzene	50	45	90		35	175
Chloroform	50	43	86		35	175
Tetrachloroethene	50	60	120		35	200
Trichloroethene	50	41	82		35	175
Vinyl chloride	50	50	100		35	175

Matrix Spike (MS)

Sample Spiked: 03060063-04
RunID: Q_030609B-1714158 Units: ug/L
Analysis Date: 06/09/2003 20:28 Analyst: TL

Analyte	Sample Result	Spike Added	MS Result	MS % Recovery	Low Limit	High Limit
1,1-Dichloroethene	ND	500	400	80	35	175
1,2-Dichloroethane	ND	500	440	88	35	175
2-Butanone	ND	500	200	40	10	175
Benzene	ND	500	490	96	35	175
Carbon tetrachloride	ND	500	520	104	35	175
Chlorobenzene	ND	500	480	96	35	175
Chloroform	ND	500	440	88	35	175
Tetrachloroethene	ND	500	470	94	35	200
Trichloroethene	ND	500	420	84	35	175
Vinyl chloride	ND	500	530	106	35	175

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Quality Control Report

Conestoga-Rovers & Associates, Inc.

#17303/CVO

Analysis: PERCENT MOISTURE
Method: D2216

WorkOrder: 03060109
Lab Batch ID: R86680D

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
03060109-01A	SO-17303-MA-060303-193
03060109-02A	SO-17303-MA-060303-194

Sample Duplicate

Original Sample: 03060210-46
RunID: WET_030608E-1709041 Units: wt%
Analysis Date: 06/08/2003 15:40 Analyst: DP

Analyte	Sample Result	DUP Result	Qual	RPD	RPD Limit
Percent Moisture	12.5	14.3		13	20

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

One percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

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6/24/03 3:31:16 PM

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder: 03060109

Received By: NB

Date and Time Received: 6/4/03 10:00:00 AM

Carrier name: FedEx

Temperature: 6

Chilled by: Water Ice

- | | | | |
|--|---|-----------------------------|--|
| 1. Shipping container/cooler in good condition? | Yes ☒ | No ☐ | Not Present ☐ |
| 2. Custody seals intact on shipping container/cooler? | Yes ☒ | No ☐ | Not Present ☐ |
| 3. Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☒ |
| 4. Chain of custody present? | Yes ☒ | No ☐ | |
| 5. Chain of custody signed when relinquished and received? | Yes ☒ | No ☐ | |
| 6. Chain of custody agrees with sample labels? | Yes ☒ | No ☐ | |
| 7. Samples in proper container/bottle? | Yes ☒ | No ☐ | |
| 8. Sample containers intact? | Yes ☒ | No ☐ | |
| 9. Sufficient sample volume for indicated test? | Yes ☒ | No ☐ | |
| 10. All samples received within holding time? | Yes ☒ | No ☐ | |
| 11. Container/Temp Blank temperature in compliance? | Yes ☒ | No ☐ | |
| 12. Water - VOA vials have zero headspace? | Yes ☐ | No ☐ | Not Applicable ☒ |
| 13. Water - pH acceptable upon receipt? | Yes ☐ | No ☐ | Not Applicable ☒ |

SPL Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance
Issues:

Client Instructions:

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.
14496 Sheldon Road, Suite 200
Plymouth, MI 48170 • (734) 453-5123

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name):

SPL

REFERENCE NUMBER:

017303

PROJECT NAME:

CVO

SAMPLER'S
SIGNATURE: *Matthew S. Abdelhal*

PRINTED
NAME: *Matthew S. Abdelhal*

PARAMETERS

No. OF
CONTAINERS

SEQ. No.	DATE	TIME	SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS	REMARKS
1	6/3/03	1330	SOIL	2	X X X	2-WK TAT
2	6/3/03	1535	Soil	2	X X X	
						CORRESPONDENCE & COMMUNICATION OF RESULTS THROUGH PAUL WILSON/ BETH LANDRELL
						Please ADD TCLP VOC

TOTAL NUMBER OF CONTAINERS

4

RELINQUISHED BY:

1.

DATE: 06/03/03

TIME: 1735

RECEIVED BY:

1.

DATE:

TIME:

RELINQUISHED BY:

2.

DATE:

TIME:

RECEIVED BY:

2.

DATE:

TIME:

RELINQUISHED BY:

3.

DATE:

TIME:

RECEIVED BY:

1.

DATE:

TIME:

METHOD OF SHIPMENT:

AIR BILL No. 62477744 0969

White
Yellow

Fully Executed Copy
Receiving Laboratory Copy

Pink
Goldenrod

Shipper Copy
Sampler Copy

SAMPLE TEAM:

MAT ABDELHAL

RECEIVED FOR LABORATORY BY:

ME:



TM

Brighton Analytical, L.L.C.
2105 Pless Drive
Brighton, Michigan 48116
Phone: (810) 229-7575 FAX: (810) 229-8650

To: Conestoga Rovers and Associates
4141 Davis Creek Ct.
Kalamazoo, MI 49001-0838

Sample Date: 06/25/03
Submit Date: 06/25/03
Report Date: 06/27/03

BA Report Number: 66563
BA Sample ID: BC08313

Project Name: GM CVO
Project Number: 017303.04
Sample ID: 1 WIPE-17303-MA-062503-001

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
PCB Analysis						
ARO 1016	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1221	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1232	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1242	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1248	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1254	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1260	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1262	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1268	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
PCB (extraction)	Extracted			3510/3550	ST	06/25/03



Brighton Analytical, L.L.C.
2105 Pless Drive
Brighton, Michigan 48116
Phone: (810) 229-7575 FAX: (810) 229-8650

TM

Sample Date: 06/25/03
Submit Date: 06/25/03
Report Date: 06/27/03

To: Conestoga Rovers and Associates
4141 Davis Creek Ct.
Kalamazoo, MI 49001-0838

BA Report Number: 66563
BA Sample ID: BC08313

Project Name: GM CVO
Project Number: 017303.04
Sample ID: 1 WIPE-17303-MA-062503-001

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
------------	---------	-------	----	------------------	---------	---------------

DL=Detection Limit as recommended by MDEQ

Released by:

Date:

J. J. Kerpner
6/27/03

Sample Date: 06/25/03
Submit Date: 06/25/03
Report Date: 06/27/03To: Conestoga Rovers and Associates
4141 Davis Creek Ct.
Kalamazoo, MI 49001-0838BA Report Number: 66563
BA Sample ID: BC08314Project Name: GM CVO
Project Number: 017303.04
Sample ID: 2 WIPE-17303-MA-062503-002

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
*CB Analysis						
RO 1016	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
RO 1221	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
RO 1232	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
RO 1242	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
RO 1248	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
RO 1254	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
RO 1260	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
RO 1262	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
RO 1268	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
CB (extraction)	Extracted			3510/3550	ST	06/25/03



TM

Brighton Analytical, L.L.C.
2105 Pless Drive
Brighton, Michigan 48116
Phone: (810) 229-7575 FAX: (810) 229-8650

To: Conestoga Rovers and Associates
4141 Davis Creek Ct.
Kalamazoo, MI 49001-0838

Sample Date: 06/25/03
Submit Date: 06/25/03
Report Date: 06/27/03

BA Report Number: 66563
BA Sample ID: BC08316

Project Name: GM CVO
Project Number: 017303.04
Sample ID: 4 WIPE-17303-MA-062503-004

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
PCB Analysis						
ARO 1016	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1221	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1232	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1242	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1248	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1254	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1260	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1262	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1268	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
PCB (extraction)	Extracted			3510/3550	ST	06/25/03



TM

Brighton Analytical, L.L.C.
2105 Pless Drive
Brighton, Michigan 48116
Phone: (810) 229-7575 FAX: (810) 229-8650

Sample Date: 06/25/03
Submit Date: 06/25/03
Report Date: 06/27/03

To: Conestoga Rovers and Associates
4141 Davis Creek Ct.
Kalamazoo, MI 49001-0838

BA Report Number: 66563
BA Sample ID: BC08316

Project Name: GM CVO
Project Number: 017303.04
Sample ID: 4. WIPE-17303-MA-062503-004

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
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DL=Detection Limit as recommended by MDEQ

Released by:

Date:

J. J. Kasper
6/27/03



TM

Brighton Analytical, L.L.C.
2105 Pless Drive
Brighton, Michigan 48116
Phone: (810) 229-7575 FAX: (810) 229-8650

To: Conestoga Rovers and Associates
4141 Davis Creek Ct.
Kalamazoo, MI 49001-0838

Sample Date: 06/25/03
Submit Date: 06/25/03
Report Date: 06/27/03

BA Report Number: 66563
BA Sample ID: BC08317

Project Name: GM CVO
Project Number: 017303.04
Sample ID: 5 WIPE-17303-MA-062503-005

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
PCB Analysis						
ARO 1016	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1221	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1232	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1242	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1248	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1254	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1260	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1262	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1268	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
PCB (extraction)	Extracted			3510/3550	ST	06/25/03



TM

Brighton Analytical, L.L.C.
2105 Pless Drive
Brighton, Michigan 48116
Phone: (810) 229-7575 FAX: (810) 229-8650

Sample Date: 06/25/03
Submit Date: 06/25/03
Report Date: 06/27/03

To: Conestoga Rovers and Associates
4141 Davis Creek Ct.
Kalamazoo, MI 49001-0838

BA Report Number: 66563
BA Sample ID: BC08317

Project Name: GM CVO
Project Number: 017303.04
Sample ID: 5 WIPE-17303-MA-062503-005

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
------------	---------	-------	----	------------------	---------	---------------

DL=Detection Limit as recommended by MDEQ

Released by:

Date:

J. J. Kewer
6/27/03



TM

Brighton Analytical, L.L.C.
2105 Pless Drive
Brighton, Michigan 48116
Phone: (810) 229-7575 FAX: (810) 229-8650

To: Conestoga Rovers and Associates
4141 Davis Creek Ct.
Kalamazoo, MI 49001-0838

Sample Date: 06/25/03
Submit Date: 06/25/03
Report Date: 06/27/03

BA Report Number: 66563
BA Sample ID: BC08318

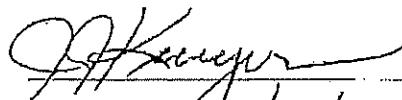
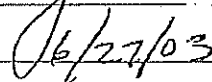
Project Name: GM CVO
Project Number: 017303.04
Sample ID: 6 WIPE-17303-MA-062503-006

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
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DL=Detection Limit as recommended by MDEQ

Released by:

Date:



TM

Brighton Analytical, L.L.C.
2105 Pless Drive
Brighton, Michigan 48116
Phone: (810) 229-7575 FAX: (810) 229-8650

To: Conestoga Rovers and Associates
4141 Davis Creek Ct.
Kalamazoo, MI 49001-0838

Sample Date: 06/25/03
Submit Date: 06/25/03
Report Date: 06/27/03

BA Report Number: 66563
BA Sample ID: BC08319

Project Name: GM CVO
Project Number: 017303.04
Sample ID: 7 WIPE-17303-MA-062503-007

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
PCB Analysis						
ARO 1016	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1221	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1232	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1242	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1248	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1254	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1260	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1262	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
ARO 1268	Not detected	ug/Wipe	10	SW846 8082	CW	06/26/03
PCB (extraction)	Extracted			3510/3550	ST	06/25/03



TM

Brighton Analytical, L.L.C.
2105 Pless Drive
Brighton, Michigan 48116
Phone: (810) 229-7575 FAX: (810) 229-8650

To: Conestoga Rovers and Associates
4141 Davis Creek Ct.
Kalamazoo, MI 49001-0838

Sample Date: 06/25/03
Submit Date: 06/25/03
Report Date: 06/27/03

BA Report Number: 66563
BA Sample ID: BC08319

Project Name: GM CVO
Project Number: 017303.04
Sample ID: 7 WIPE-17303-MA-062503-007

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
------------	---------	-------	----	------------------	---------	---------------

DL=Defection Limit as recommended by MDEQ

Released by:

Date:

J. J. Kasper
6/22/03

APPENDIX D
SOIL DISPOSAL MANIFESTS

482323

48

552843

Rf. 7-8-03

GROSS: 93280 LBS 46.64 TONS CUYDS: 20
 TARE: 49100 LBS 24.55 TONS
 NET: 44180 LBS 22.09 TONS
 ORIGIN: VPSILANTII

Woodland Hills, CA
 5900 Harbor Blvd.
 Wayne, Michigan 48098
 734/321-0573

COMMENT: 100605
 OPERATOR: TOM

0037663 ENV09/20 13:16 07/08/2003

GENERAL MOTORS NATIONAL ACCOUNTS 152013
 12200 E 13MILE RD.
 SUITE 120
 WARREN, MI 48098

043T INDUSTRIAL SPEC DEBR 22.09

Rf. 7-8-03
 GROSS: 138700 LBS 69.35 TONS CUYDS: 4
 TARE: 51600 LBS 25.80 TONS
 NET: 87100 LBS 43.55 TONS
 ORIGIN: VPSILANTII

Woodland Hills, CA
 5900 Harbor Blvd.
 Wayne, Michigan 48098
 734/321-0573

COMMENT: 100604
 OPERATOR: TOM

0037663 MIC106 13:18 07/08/2003

GENERAL MOTORS NATIONAL ACCOUNTS 15
 12200 E 13MILE RD.
 SUITE 120
 WARREN, MI 48098

043T INDUSTRIAL SPEC DEBR 43.55

NON-HAZARDOUS WASTE MANIFEST

NO. 100623

GENERATOR:

General Motors Corp

2701 Tyler Road

Ypsilanti MI 48198

DELIVER TO:

☐ Autumn Hills RDF (Zeeland, MI)☐ Waters Landfill (Frederic, MI)☐ Eagle Valley RDF (Orion, MI)☐ Glen's Sanitary Landfill (Maple City, MI)☐ Hastings Sanitary Services (Hastings, MI)☐ McGill Road Landfill (Jackson, MI)☐ Northern Oaks RDF (Harrison, MI)☐ Pine Tree Acres, Inc. (Lenox, MI)☐ People's Landfill, Inc. (Birch Run, MI)☐ Tri-City RDF (Carsonville, MI)☐ Venice Park RDF (Lennon, MI)☐ Westside RDF (Three Rivers, MI)☒ Woodland Meadows RDF (Van Buren, MI)

Transporter: All-In-One

Vehicle No.: 129

Company Responsible for Disposal Charges:

Profile GMM161

Approval No.	Name of Waste Stream	Physical Description (i.e., solid, color)	Volume
152013	Contaminated soil and debris	solid grey/brown	Gross Wt.: 25 c/yd
			Tare Wt.:
			Net Wt.:

GENERATOR:

General Motors Corp

2901 Tyler Road

Livonia, MI 48150

(Attn Chris Issa)

Transporter: H. A. Environmental Serv.

Vehicle No.: 09

Roll off Box 274131

Profile GMM1161

DELIVER TO:

☐ Autumn Hills RDF (Zeeland, MI)☐ Waters Landfill (Frederic, MI)☐ Eagle Valley RDF (Orion, MI)☐ Glen's Sanitary Landfill (Maple City, MI)☐ Hastings Sanitary Services (Hastings, MI)☐ McGill Road Landfill (Jackson, MI)☐ Northern Oaks RDF (Harrison, MI)☐ Pine Tree Acres, Inc. (Lenox, MI)☐ People's Landfill, Inc. (Birch Run, MI)☐ Tri-City RDF (Carsonville, MI)☐ Venice Park RDF (Lennon, MI)☐ Westside RDF (Three Rivers, MI)☒ Woodland Meadows RDF (Van Buren, MI)

Company Responsible for Disposal Charges:

Approval No.	Name of Waste Stream	Physical Description (i.e., solid, color)	Volume
152013	contaminated soil and debris	solid grey/brown	25 cyd
			Gross Wt.:
			Tare Wt.:
			Net Wt.:

NON-HAZARDOUS WASTE MANIFEST

NO100622

GENERATOR:

General Motors Corp
2901 Tyler Road
Ups. Lant MI 48198
(Attn: Chris Issa)

Transporter: *Great Lakes*

Vehicle No.: *799*

Roll off Box 274610

DELIVER TO:

- ☐ Autumn Hills RDF (Zeeland, MI)
- ☐ Waters Landfill (Frederic, MI)
- ☐ Eagle Valley RDF (Orion, MI)
- ☐ Glen's Sanitary Landfill (Maple City, MI)
- ☐ Hastings Sanitary Services (Hastings, MI)
- ☐ McGill Road Landfill (Jackson, MI)
- ☐ Northern Oaks RDF (Harrison, MI)
- ☐ Pine Tree Acres, Inc. (Lenox, MI)
- ☐ People's Landfill, Inc. (Birch Run, MI)
- ☐ Tri-City RDF (Carsonville, MI)
- ☐ Venice Park RDF (Lennon, MI)
- ☐ Westside RDF (Three Rivers, MI)
- ☒ Woodland Meadows RDF (Van Buren, MI)

Company Responsible for Disposal Charges:

Profile GMM161

Approval No.	Name of Waste Stream	Physical Description (i.e., solid, color)	Volume
<i>52013</i>	<i>contaminated soil and debris</i>	<i>solid grey/brown</i>	Gross Wt.: <i>25cyd</i>
			Tare Wt.:
			Net Wt.:

NON-HAZARDOUS WASTE MANIFEST

NO.100621

GENERATOR:

General Motors Corp
2701 Tyler Road
Upstart, MI 48198
Attn: Chris Issa

Transporter: *H&M Environmental Services*

Vehicle No.: *09*
Box # 274590

DELIVER TO:

- ☐ Autumn Hills RDF (Zeeland, MI)
- ☐ Waters Landfill (Frederic, MI)
- ☐ Eagle Valley RDF (Orion, MI)
- ☐ Glen's Sanitary Landfill (Maple City, MI)
- ☐ Hastings Sanitary Services (Hastings, MI)
- ☐ McGill Road Landfill (Jackson, MI)
- ☐ Northern Oaks RDF (Harrison, MI)
- ☐ Pine Tree Acres, Inc. (Lenox, MI)
- ☐ People's Landfill, Inc. (Birch Run, MI)
- ☐ Tri-City RDF (Carsonville, MI)
- ☐ Venice Park RDF (Lennon, MI)
- ☐ Westside RDF (Three Rivers, MI)
- ☒ Woodland Meadows RDF (Van Buren, MI)

Company Responsible for Disposal Charges:

Profile G-M1161

Approval No.	Name of Waste Stream	Physical Description (i.e., solid, color)	Volume
<i>152013</i>	<i>contaminated soil and debris</i>	<i>solid grey brown</i>	<i>25 cyd</i>
			Gross Wt.:
			Tare Wt.:
			Net Wt.:

NON-HAZARDOUS WASTE MANIFEST

NO100620

GENERATOR:

General Motors Corp
2701 Tyler Road
Upsala MI 48798

Transporter:

Michigan Roads

Vehicle No.:

100

Truck & flat

DELIVER TO:

- ☐ Autumn Hills RDF (Zeeland, MI)
- ☐ Waters Landfill (Frederic, MI)
- ☐ Eagle Valley RDF (Orion, MI)
- ☐ Glen's Sanitary Landfill (Maple City, MI)
- ☐ Hastings Sanitary Services (Hastings, MI)
- ☐ McGill Road Landfill (Jackson, MI)
- ☐ Northern Oaks RDF (Harrison, MI)
- ☐ Pine Tree Acres, Inc. (Lenox, MI)
- ☐ People's Landfill, Inc. (Birch Run, MI)
- ☐ Tri-City RDF (Carsonville, MI)
- ☐ Venice Park RDF (Lennon, MI)
- ☐ Westside RDF (Three Rivers, MI)
- ☒ Woodland Meadows RDF (Van Buren, MI)

Company Responsible for Disposal Charges:

Prof: 10 GMM/101

Approval No.	Name of Waste Stream	Physical Description (i.e., solid, color)	Volume
<i>152013</i>	<i>Contaminated soil and debris</i>	<i>solid gray brown</i>	<i>40cy</i>
			Gross Wt.:
			Tare Wt.:
			Net Wt.:

NON-HAZARDOUS WASTE MANIFEST

NO.100619

GENERATOR:

General Motors Corp.

2701 Tyler Road

Upsilanti MI 48198

(Attn Chris Issa)

Transporter: *Buck Service*

Vehicle No.: *93*

Roll-off Box 274175

DELIVER TO:

- ☐ Autumn Hills RDF (Zeeland, MI)
- ☐ Waters Landfill (Frederic, MI)
- ☐ Eagle Valley RDF (Orion, MI)
- ☐ Glen's Sanitary Landfill (Maple City, MI)
- ☐ Hastings Sanitary Services (Hastings, MI)
- ☐ McGill Road Landfill (Jackson, MI)
- ☐ Northern Oaks RDF (Harrison, MI)
- ☐ Pine Tree Acres, Inc. (Lenox, MI)
- ☐ People's Landfill, Inc. (Birch Run, MI)
- ☐ Tri-City RDF (Carsonville, MI)
- ☐ Venice Park RDF (Lennon, MI)
- ☐ Westside RDF (Three Rivers, MI)
- ☒ Woodland Meadows RDF (Van Buren, MI)

Company Responsible for Disposal Charges:

Profile GMM161

Approval No.	Name of Waste Stream	Physical Description (i.e., solid, color)	Volume
<i>152013</i>	<i>Contaminated soil and debris</i>	<i>Solid grey brown</i>	Gross Wt.: <i>25 CY</i>
			Tare Wt.:
			Net Wt.:

NON-HAZARDOUS WASTE MANIFEST

NO100616

GENERATOR:

General Motors Corp

2901 T. W. Road

Ypsilanti MI 48198

(Attn: Chris Kiser)

Transporter: ILFC

Vehicle No.: 40155

DELIVER TO:

- ☐ Autumn Hills RDF (Zeeland, MI)
- ☐ Waters Landfill (Frederic, MI)
- ☐ Eagle Valley RDF (Orion, MI)
- ☐ Glen's Sanitary Landfill (Maple City, MI)
- ☐ Hastings Sanitary Services (Hastings, MI)
- ☐ McGill Road Landfill (Jackson, MI)
- ☐ Northern Oaks RDF (Harrison, MI)
- ☐ Pine Tree Acres, Inc. (Lenox, MI)
- ☐ People's Landfill, Inc. (Birch Run, MI)
- ☐ Tri-City RDF (Carsonville, MI)
- ☐ Venice Park RDF (Lennon, MI)
- ☐ Westside RDF (Three Rivers, MI)
- ☒ Woodland Meadows RDF (Van Buren, MI)

Company Responsible for Disposal Charges:

6141161

Approval No.	Name of Waste Stream	Physical Description (i.e., solid, color)	Volume
#152013	contaminated soil and debris	soil gray/brown	12 yds Gross Wt.:
			Tare Wt.:

NON-HAZARDOUS WASTE MANIFEST

NO100610

DELIVER TO:

Autumn Hills RDF (Zeeland, MI)
 Waters Landfill (Frederic, MI)
 Eagle Valley RDF (Orion, MI)
 Glen's Sanitary Landfill (Maple City, MI)
 Hastings Sanitary Services (Hastings, MI)
 McGill Road Landfill (Jackson, MI)
 Northern Oaks RDF (Harrison, MI)
 Pine Tree Acres, Inc. (Lenox, MI)
 Peoples Landfill, Inc. (Birch Run, MI)
 Tri-City RDF (Carsonville, MI)
 Venice Park RDF (Lennon, MI)
 Westside RDF (Three Rivers, MI)
 Woodland Meadows RDF (Van Buren, MI)

Company Responsible for Disposal Charges:

GENERATOR:

General Motors Corp

2901 Tyler Road

Livonia, MI 48198

(Attn: Chris /SSO)

Transporter: Great Lakes

Vehicle No.: 999

Box 274610

Profile # GMM161

Approval No.

152013

Name of Waste Stream

Contaminated soil
and debrisPhysical Description
(i.e., solid, color)Solid
grey/brown

Volume

25 cyd

Gross Wt.:

Tare Wt.:

NON-HAZARDOUS WASTE MANIFEST

NO.100611

DELIVER TO:

- ☐ Autumn Hills RDF (Zeeland, MI)
- ☐ Waters Landfill (Frederic, MI)
- ☐ Eagle Valley RDF (Orion, MI)
- ☐ Glen's Sanitary Landfill (Maple City, MI)
- ☐ Hastings Sanitary Services (Hastings, MI)
- ☐ McGill Road Landfill (Jackson, MI)
- ☐ Northern Oaks RDF (Harrison, MI)
- ☐ Pine Tree Acres, Inc. (Lenox, MI)
- ☐ People's Landfill, Inc. (Birch Run, MI)
- ☐ Tri-City RDF (Carsonville, MI)
- ☐ Venice Park RDF (Lennon, MI)
- ☒ Westside RDF (Three Rivers, MI)
- ☐ Woodland Meadows RDF (Van Buren, MI)

Company Responsible for Disposal Charges:

GENERATOR: General Motors Corp
 2701 Tyler Road
 Flint, MI 48178
 (Attn Chris Issa)
 Transporter: All-In-One
 129
 Vehicle No.:
 Box # 274994
 Profile 6mm161

Approval No.	Name of Waste Stream	Physical Description (i.e., solid, color)	Volume
# 150013 150013	Manufactured Sol and debris	Solid gray/brown	25 yds
		Gross Wt.:	
		Tare Wt.:	
		Net Wt.:	

NON-HAZARDOUS WASTE MANIFEST

NO100612

DELIVER TO:

- ☐ Autumn Hills RDF (Zeeland, MI)
- ☐ Waters Landfill (Frederic, MI)
- ☐ Eagle Valley RDF (Orion, MI)
- ☐ Glen's Sanitary Landfill (Maple City, MI)
- ☐ Hastings Sanitary Services (Hastings, MI)
- ☐ McGill Road Landfill (Jackson, MI)
- ☐ Northern Oaks RDF (Harrison, MI)
- ☐ Pine Tree Acres, Inc. (Lenox, MI)
- ☐ People's Landfill, Inc. (Birch Run, MI)
- ☐ Tri-City RDF (Carsonville, MI)
- ☐ Venice Park RDF (Lennon, MI)
- ☒ Westside RDF (Three Rivers, MI)
- ☐ Woodland Meadows RDF (Van Buren, MI)

Company Responsible for Disposal Charges:

GENERATOR: General Motors Corp
2901 Tyler Road
Westland, MI 48198
(Attn: Chris Issa)
 Transporter: Great Lakes
 Vehicle No.: 799
Roll-off box: 274610
 Profile # GM161

Approval No.	#152013
Name of Waste Stream	Contaminated soil and debris
Physical Description (i.e., solid, color)	Solid, dark grey/brown
Volume	25 cu yd
Gross Wt.	
Tare Wt.	
Net Wt.	

NON-HAZARDOUS WASTE MANIFEST

NO.100613

GENERATOR:

General Motors Corp
2901 Tykes Road
Upsal, MI 48195
(Attn: Chris Issa)

Transporter: *Great Lakes*

Vehicle No.: *099*

Truck & pup

DELIVER TO:

- ☐ Autumn Hills RDF (Zeeland, MI)
- ☐ Waters Landfill (Frederic, MI)
- ☐ Eagle Valley RDF (Orion, MI)
- ☐ Glen's Sanitary Landfill (Maple City, MI)
- ☐ Hastings Sanitary Services (Hastings, MI)
- ☐ McGill Road Landfill (Jackson, MI)
- ☐ Northern Oaks RDF (Harrison, MI)
- ☐ Pine Tree Acres, Inc. (Lenox, MI)
- ☐ People's Landfill, Inc. (Birch Run, MI)
- ☐ Tri-City RDF (Carsonville, MI)
- ☐ Venice Park RDF (Lennon, MI)
- ☐ Westside RDF (Three Rivers, MI)
- ☒ Woodland Meadows RDF (Van Buren, MI)

Company Responsible for Disposal Charges:

Profile # GMM161

Approval No.	Name of Waste Stream	Physical Description (i.e., solid, color)	Volume
<i>1# 152013</i>	<i>Contaminated soil and debris</i>	<i>Solid Grey/brn</i>	Gross Wt.: <i>40 cys</i>
			Tare Wt.: <i>1</i>
			Net Wt.: <i>39</i>

NON-HAZARDOUS WASTE MANIFEST

NO100614

GENERATOR:

General Motors Corp
2901 Tyler Road
Lpsilant, MI 48198
(Attn: Chris Issa)

Transporter: *Great Lakes*

Vehicle No.: *799*

Roll off box 274610

DELIVER TO:

- ☐ Autumn Hills RDF (Zeeland, MI)
- ☐ Waters Landfill (Frederic, MI)
- ☐ Eagle Valley RDF (Orion, MI)
- ☐ Glen's Sanitary Landfill (Maple City, MI)
- ☐ Hastings Sanitary Services (Hastings, MI)
- ☐ McGill Road Landfill (Jackson, MI)
- ☐ Northern Oaks RDF (Harrison, MI)
- ☐ Pine Tree Acres, Inc. (Lenox, MI)
- ☐ People's Landfill, Inc. (Birch Run, MI)
- ☐ Tri-City RDF (Carsonville, MI)
- ☐ Venice Park RDF (Lennon, MI)
- ☐ Westside RDF (Three Rivers, MI)
- ☒ Woodland Meadows RDF (Van Buren, MI)

Company Responsible for Disposal Charges:

Profile GMM161

Approval No.	Name of Waste Stream	Physical Description (i.e., solid, color)	Volume
<i>4152013</i>	<i>Contaminated soil and debris</i>	<i>Solid grey/brown</i>	Gross Wt.: <i>25 cyd</i>
			Tare Wt.:
			Net Wt.:

NON-HAZARDOUS WASTE MANIFEST

NO.100615

GENERATOR:

General Motors Corp
2901 Tyler Road
Upsalant, MI 48198
(Attn Chris Issa)

Transporter: *Great Lakes*

Vehicle No.: *799*

R.O.# *274590*

Profile GMM161

DELIVER TO:

- ☐ Autumn Hills RDF (Zeeland, MI)
- ☐ Waters Landfill (Frederic, MI)
- ☐ Eagle Valley RDF (Orion, MI)
- ☐ Glen's Sanitary Landfill (Maple City, MI)
- ☐ Hastings Sanitary Services (Hastings, MI)
- ☐ McGill Road Landfill (Jackson, MI)
- ☐ Northern Oaks RDF (Harrison, MI)
- ☐ Pine Tree Acres, Inc. (Lenox, MI)
- ☐ People's Landfill, Inc. (Birch Run, MI)
- ☐ Tri-City RDF (Carsonville, MI)
- ☐ Venice Park RDF (Lennon, MI)
- ☐ Westside RDF (Three Rivers, MI)
- ☒ Woodland Meadows RDF (Van Buren, MI)

Company Responsible for Disposal Charges:

Approval No.	Name of Waste Stream	Physical Description (i.e., solid, color)	Volume
<i>#152013</i>	<i>contaminated soil and debris</i>	<i>solid grey/brown</i>	Gross Wt.: <i>25 cyd</i>
			Tare Wt.:
			Net Wt.:

NON-HAZARDOUS WASTE MANIFEST

NO100606

GENERATOR:

General Motors Corp
 2701 Tyler Road
 Grosse Pointe, MI 48198
 ATTN (CARIS ISSA)

Transporter: Great Lakes

Vehicle No.: 799

Box # 274610

Profile # GMM161

DELIVER TO:

- ☐ Autumn Hills RDF (Zeeland, MI)
☐ Waters Landfill (Frederic, MI)
☐ Eagle Valley RDF (Orion, MI)
☐ Glen's Sanitary Landfill (Maple City, MI)
☐ Hastings Sanitary Services (Hastings, MI)
☐ McGill Road Landfill (Jackson, MI)
☐ Northern Oaks RDF (Harrison, MI)
☐ Pine Tree Acres, Inc. (Lenox, MI)
☐ People's Landfill, Inc. (Birch Run, MI)
☐ Tri-City RDF (Carsonville, MI)
☐ Venice Park RDF (Lennon, MI)
☐ Westside RDF (Three Rivers, MI)
☒ Woodland Meadows RDF (Van Buren, MI)

Company Responsible for Disposal Charges:

Approval No.	Name of Waste Stream	Physical Description (i.e., solid, color)	Volume
#152013	contaminated soil and debris	solid grey/brown	20 cyd
			Gross Wt.:
			Tare Wt.:

NON-HAZARDOUS WASTE MANIFEST

NO. 100605

GENERATOR:

General Motors Corp

2901 Tyler Road

Upsalant, MI 48198

RTTN (Chia/SSA)

Transporter:

H & M Environmental Services

Vehicle No.:

#09 / 307 # 274981

DELIVER TO:

- ☐ Autumn Hills RDF (Zeeland, MI)
- ☐ Waters Landfill (Frederic, MI)
- ☐ Eagle Valley RDF (Orion, MI)
- ☐ Glen's Sanitary Landfill (Maple City, MI)
- ☐ Hastings Sanitary Services (Hastings, MI)
- ☐ McGill Road Landfill (Jackson, MI)
- ☐ Northern Oaks RDF (Harrison, MI)
- ☐ Pine Tree Acres, Inc. (Lenox, MI)
- ☐ People's Landfill, Inc. (Birch Run, MI)
- ☐ Tri-City RDF (Carsonville, MI)
- ☐ Venice Park RDF (Lennon, MI)
- ☐ Westside RDF (Three Rivers, MI)
- ☒ Woodland Meadows RDF (Van Buren, MI)

Company Responsible for Disposal Charges:

Profile # GMM161

Approval No.	Name of Waste Stream	Physical Description (i.e., solid, color)	Volume
<i># 152013</i>	<i>contaminated soil and debris</i>	<i>solid grey/brown</i>	<i>200 yds off</i>
			Gross Wt.:
			Tare Wt.:
			Net Wt.:

NON-HAZARDOUS WASTE MANIFEST

NO100604

GENERATOR:

General Motors Corp
2701 Tyler Road
Ypsilanti, MI 48198
ATTN: Chris LSA

Transporter: *Michigan Roads*

Vehicle No.: *#106* *gravel train*
lead & pup

DELIVER TO:

- ☐ Autumn Hills RDF (Zeeland, MI)
- ☐ Waters Landfill (Frederic, MI)
- ☐ Eagle Valley RDF (Orion, MI)
- ☐ Glen's Sanitary Landfill (Maple City, MI)
- ☐ Hastings Sanitary Services (Hastings, MI)
- ☐ McGill Road Landfill (Jackson, MI)
- ☐ Northern Oaks RDF (Harrison, MI)
- ☐ Pine Tree Acres, Inc. (Lenox, MI)
- ☐ People's Landfill, Inc. (Birch Run, MI)
- ☐ Tri-City RDF (Carsonville, MI)
- ☐ Venice Park RDF (Lennon, MI)
- ☐ Westside RDF (Three Rivers, MI)
- ☒ Woodland Meadows RDF (Van Buren, MI)

Company Responsible for Disposal Charges:

Profile #GMP161

Approval No.	Name of Waste Stream	Physical Description (i.e., solid, color)	Volume
<i>#152013</i>	<i>contaminated soil and debris</i>	<i>solid grey/brown</i>	<i>40 cy train</i>
			Gross Wt.:
			Tare Wt.:
			Net Wt.:

NON-HAZARDOUS WASTE MANIFEST

NO.100603

GENERATOR:

General Motors Corporation

2901 Tyler Road

Upsistant, MI 48198

ATTN Chris Issa

Transporter:

Bud's Service

Vehicle No.:

93

Bsx # ~~294577~~ 294577

Profile # GMM161

DELIVER TO:

- ☐ Autumn Hills RDF (Zeeland, MI)
- ☐ Waters Landfill (Frederic, MI)
- ☐ Eagle Valley RDF (Orion, MI)
- ☐ Glen's Sanitary Landfill (Maple City, MI)
- ☐ Hastings Sanitary Services (Hastings, MI)
- ☐ McGill Road Landfill (Jackson, MI)
- ☐ Northern Oaks RDF (Harrison, MI)
- ☐ Pine Tree Acres, Inc. (Lenox, MI)
- ☐ People's Landfill, Inc. (Birch Run, MI)
- ☐ Tri-City RDF (Carsonville, MI)
- ☐ Venice Park RDF (Lennon, MI)
- ☐ Westside RDF (Three Rivers, MI)
- ☒ Woodland Meadows RDF (Van Buren, MI)

Company Responsible for Disposal Charges:

Approval No.	Name of Waste Stream	Physical Description (i.e., solid, color)	Volume
<i>#152013</i>	<i>Contaminated soil and debris</i>	<i>Solid grey/brown</i>	<i>20 cu yd roll off</i>
			Gross Wt.:
			Tare Wt.:
			Net Wt.:

(DRIVER: PLEASE SIGN BELOW)

482380



REFERENCE NO.
482380

(PLEASE SIGN HERE)

Woodland Meadows Rdf
5900 Hannan Road
Wayne, Michigan 48184
734/326-0993

CUSTOMER NO. 0037663
TRUCK NO. 01133923
INITIALS
TIME 14:15
DATE 07/09/2001
BATCH NO.

MANIFEST NO. 182013
PERMIT NO.

LOAD CODE	LOAD DESCRIPTION	LOAD QUANTITY	AMOUNT

5715

THIS IS A REPRODUCTION

GR055: 91500 LBS
TARE: 49100 LBS
NET: 42400 LBS
GR055: 45.25 TONS
TARE: 24.55 TONS
NET: 21.20 TONS
ORIGIN: VPSILANTI

COMMENT: 06621
OPERATOR: TOM

0037663 ERW09/25 14:40 07/08/2003

GENERAL MOTORS NATIONAL ACCOUNTS
12200 E LAMBLE RD.
SUITE 120
WARREN, MI 48090

0431 INDUSTRIAL SPEC DEBR 21.20

108-05

482

55

482584

553884

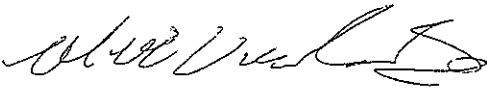
GROSS: 141340 LBS 70.97 TONS CUYDS: 40
TARE: 63040 LBS 31.52 TONS
NET: 78300 LBS 39.45 TONS
ORIGIN: VPSILANTI

COMMENT: 100613
OPERATOR: TOM

0037663 GRE092 08:11 07/09/2003

GENERAL MOTORS NATIONAL ACCOUNTS 152013
12200 E 13MILE RD.
SUITE 120
WARREN, MI 48090

043T INDUSTRIAL SPEC DEBR 39.45



000000

482421

48244

5529

Woodland Meadows RDF
5900 Hannan Road
Wayne, Michigan 48184
734/326-0993

GROSS: 93040 LBS 46.52 TONS CUYDS: 25
TARE: 49100 LBS 24.55 TONS
NET: 43940 LBS 21.97 TONS
ORIGIN: VPSILANTI

Wayne, Michigan 48184
734/326-0993

COMMENT: 100624
OPERATOR: TOM

0032663 ENV09/25 16:07 02/08/2003

GENERAL MOTORS NATIONAL ACCOUNTS
12200 E 13MILE RD.
SUITE 120
WARREN, MI 48090

152019

043T INDUSTRIAL SPEC DEBR 21.97