EPA Region 5 Records Ctr.
385954

REMEDIAL ACTION COMPLETION REPORT

20 JEFFERSON AVENUE
ELGIN, ILLINOIS

Prepared by:
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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) has prepared this Remedial Action Completion Report (RACR) on behalf of the Jefferson Yard Removal Action Group. This RACR documents the actions completed to remove soil contaminated with polychlorinated biphenyls (PCBs), dioxins, lead, and cadmium from the site located at 20 Jefferson Avenue in Elgin, Illinois (Site).

The remedial action was completed according to the Revised Removal Plan (CRA, September 2009) and approved by the United States Environmental Protection Agency (USEPA). An Administrative Settlement Agreement and Order on Consent for Removal Action was issued on October 14, 2009. A copy of the cover letter of the order is provided in Appendix A.

1.1 BACKGROUND

The Site is approximately 1.3 acres and formerly operated as a non-ferrous scrap yard. A removal action was completed in 1995 when 2,600 cubic yards (CY) of contaminated soil was removed. The 1995 work is documented in a report titled: "Removal Action Completion Report" prepared by CRA, dated May 1995. After 1995, scrap operations continued until approximately 2003 or 2004. Location of the Site is provided in Figure 1.1.

The Site was purchased by the City of Elgin in 2004.

1.2 DEVIATIONS FROM THE REMOVAL PLAN

The following lists deviations from the Removal Plan. All changes were approved by the United States Environmental Protection Agency (USEPA) and the City of Elgin (as appropriate) prior to use.

- Soil planned for stabilization was excavated and stabilized in piles rather than in-situ stabilization.
- Stabilization material was changed from Portland cement to EviroBlend as discussed in Section 4.5.
- Compaction testing during backfill of the excavation areas was waived.

- Excavations areas with the exception of the JB1 area, were left open and not backfilled.
- No TCLP analytical was performed for the additional excavation in areas JSS-9 and SB-11.

1.3 REMEDIAL OBJECTIVES

The USEPA has established the following remedial objectives for the Jefferson Yard Site:

• Total PCBs	10 mg/kg
• Total Lead	400 mg/kg
• TCLP Lead	5 mg/L
• Total Cadmium	390 mg/kg
• TCLP Cadmium	1 mg/L
• Toxicity Equivalent (TEQ) Dioxin	1 μg/kg

2.0 NATURE AND EXTENT OF CONTAMINATION

Studies completed by the City's contractor, Terracon, in 2004 through 2008 identified lead, PCB, and dioxin soil impacts in the building area on the north and east side of the Site (Terracon 2004 and Terracon 2008). In 2008, an USEPA contractor, Weston, collected samples from drums and soil for PCB, metals, and dioxin analyses (Weston 2008).

In the fall of 2008, three companies (Commonwealth Edison, AT&T, and Fermi Research Alliance, LLC (Fermilab) (the Group)) conducted soil sampling to further delineate the quantity of soil above remediation levels. The results of this sampling effort are documented in the report titled: "Supplemental Investigation Report" prepared by CRA and dated January 2009 (CRA 2009a).

In addition, as part of the Group effort, a bench scale test was conducted by CRA to determine the efforts needed to stabilize lead and cadmium impacted soil to levels below TCLP levels. The results of the bench scale test were presented in a CRA letter to USEPA (CRA 2009b).

3.0 REMOVAL PLAN

The removal action involved the following steps:

- Mobilization
- Site facilities and controls
- Sweeping and pressure washing concrete surfaces
- Excavation of contaminated soil exceeding cleanup levels
- Stabilization of lead and cadmium impacted soil
- Off-Site disposal of contaminated soil
- Confirmation sampling for PCBs, lead, cadmium, and for TCLP lead and cadmium to verify remaining soil meets cleanup levels
- Backfilling deep excavation areas with clean imported fill
- Demobilization

The remedial action plan identified PCBs, lead, and cadmium as the indicator parameters for confirmation sampling. As shown on Figures 3.1 and 3.2, the excavation areas were further delineated between areas with PCBs greater than or equal to 50 mg/kg and non-Toxic Substance Control Act (TSCA) areas with PCBs less than 50 mg/kg but greater than or equal to the remedial objective of 10 mg/kg. This delineation was made to separate soil classified as a TSCA regulated waste (PCBs greater than or equal to 50 mg/kg) from soil classified as non-TSCA (PCBs less than 50 mg/kg) for disposal purposes.

4.0 CONSTRUCTION ACTIVITIES

Environmental Quality Company (EQ) was contracted by CRA to implement the Removal Action Plan. CRA provided construction management and oversight, confirmation sampling, and documentation. Photographs of the construction activities are contained in Appendix B. An overview of the site layout is presented on Figure 4.1. Key personnel and companies involved with the remedial action are presented in Table 4.1.

4.1 CHRONOLOGY OF EVENTS

The activities listed below outline the major activities associated with the remedial action. This chronology is not intended to identify every activity that occurred, but is presented as a summary of the major activities.

October 20, 2009

- Mobilized to Site
- Clear brush and small trees

October 21, 2009

- Survey and mark excavation area boundaries
- Fill roll-off box with refuse from the southern portion of the building
- Pre-construction meeting
- Scrape soil from concrete surfaces and place on Area ES-S02 soil for later stabilization
- Finished clearing brush and trees
- Stage various metal items found throughout along the western fence line

October 22, 2009

- Began filling dumpsters with building debris
- Shore pillar in the north portion of the building
- Stabilize, excavate and stockpile TSCA soil in areas ES-SO2 and ES-SO4

October 23, 2009

- Remove and stockpile concrete from area SB-11
- Excavate, stabilize, and stockpile TSCA soil in area JSS-10
- Excavate, stabilize, and stockpile non-TSCA soil in area SB-11

- Finish filling roll-off boxes with building debris
- Began confirmation sampling of excavated areas and stabilized soil

October 26, 2009

- Excavate and stockpile non-TSCA soil in areas JSS-7, JSS-8, and JSS-9
- Began sweeping concrete pad

October 27, 2009

- Began off-Site disposal of non-TSCA soil
- Excavate and load non-TSCA soil from area JB-1
- Confirmation sampling of areas JB-1, JSS-7, JSS-8, and JSS-9
- Finished sweeping concrete

October 28, 2009

- Began pressure washing and vacuuming concrete

October 29, 2009

- Excavate an additional 12 inches from the SB-11 area
- Confirmation sampling of SB-11 after the additional excavation
- Finish pressure washing and vacuuming concrete

November 2, 2009

- Finish off-Site disposal of non-TSCA soil
- Excavate a foot deeper from the JSS-9 area
- Off-Site disposal of TSCA soil
- Confirmation sampling of JSS-9 after the additional excavation

November 3, 2009

- Off-Site disposal of TSCA soil
- Backfill areas JB-1 and SB-11 with CA-6, compact in 1-foot lifts

November 4, 2009

- Finished off-Site disposal of TSCA soil
- Sample drums containing concrete wash water and decon water

December 15, 2009

- Demobilized from Site
- Removed wastewater drums from Site

4.2 MOBILIZATION AND SITE PREPARATION

Before mobilizing to the site, CRA prepared a Site Specific Health and Safety Plan (HASP) that outlined specific guidelines and established procedures for the protection of oversight and construction personnel at the site. All on-Site workers reviewed and signed off on the HASP. Daily tail gate safety meetings were held with on-site personnel that generally included EQ, Weston, and CRA.

EQ mobilized to the site on October 20, 2009, and began preparing the site for remediation activities. The Site was secured by the building to the east, and by fencing along the north, west, and south boundaries. A locked gate was maintained throughout the project in the southwest portion of the Site. An office trailer, portable latrine, and generator were maintained during the work. Excavation equipment included a tracked backhoe, bobcat, front-end loader, a smooth barrel compactor with additional equipment, and supplies mobilized during the project as needed.

As a part of the site preparation, brush and small trees were cut down and moved to the western edge of the Site. EQ had the utilities cleared using the J.U.L.I.E. one call system prior to any work on the Site. Appendix C provides the completed and signed Property Access/Utility Clearance Form.

Excavation areas were marked using spray markings on the ground. These areas were considered Exclusion Zone areas. It was deemed unnecessary to enter these areas as they were small and access around them could easily be accomplished.

A pre-construction meeting was held on October 21, 2009 with EQ, CRA, Terracon (representing the City of Elgin), U.S. EPA and Weston (with the U.S. EPA). The various metal objects throughout the Site, were to be moved and staged along the western side of the site for later salvage by the City of Elgin.

During Site preparation, a 5-foot gas cylinder (propane type in appearance) was encountered in the northern portion of the Site. The cylinder appeared empty and was moved to the metal staging area. Terracon, as representative for the City of Elgin, had previously removed approximately 128 various gas cylinders and 80 55-gallon drums containing slag, ash, and other materials from the Site in August 2009. As such, Terracon, stated they would manage the disposal of the cylinder.

4.3 BUILDING DEBRIS REMOVAL

The building debris was loaded (non-hazardous) on October 22 and 23, 2009. A total of one dump truck and three roll-off containers were used to contain and transport the material that consisted of wood, concrete, bricks, glass, metal, and tin from the roof collapse and fire which occurred in May 2008. The debris was removed using the tracked backhoe, which was equipped with a grapple thumb. A total of 25.74 tons of building debris was removed.

At the north end of the building, near area ES-SO2, a wooden pillar was no longer supporting its portion of the roof. The concrete footing for the pillar had been removed or hit during previous operations and was no longer supporting the pillar. In order to safely conduct work in and around area ES-SO2, the footing was replaced by EQ. The footing was installed by hand digging a hole below the support approximately 2 feet below grade. A 12-inch diameter, 4-foot long form was set in place between the bottom of the hole and into the bottom of the pillar and filled with concrete. Concrete was poured into the form up to and surrounding the wooden pillar. Approximately 24 hours were allowed for the concrete to set up before any work was performed around the area.

On October 23, 2009, during the removal of debris, in the JSS-7 area, a 20-foot section of the roof collapsed. A metal pillar had slid off its footing between areas SB-11 and JSS-7 and, as a result, the roof section collapsed. No damage or injuries occurred. That portion of the roof was removed and disposed of with the other building debris.

4.4 CONCRETE CLEANING

As required by the remedial action plan, concrete was scraped, swept, and pressure washed to remove soil. Initially, a skid loader was used to scrape soil and mixed it in with the stabilized TSCA soil excavated from area ES-SO2. Rather than testing this small quantity of soil for PCB's to determine if it was less than 50 mg/kg, the soil was disposed of with the stabilized TSCA material. An estimated two tons of soil was scraped from the concrete.

After the concrete was swept, the concrete surface was pressure washed to further remove soil that was not removed by sweeping. The wash water was vacuumed using a shop-vac and transferred into drums and sampled for waste characterization as discussed further in Section 4.10.

4.5 SOIL STABILIZATION

Soil stabilization was conducted to treat the soil to below TCLP lead and cadmium regulatory levels. This procedure allows the soil to be managed as TSCA (if PCBs exceed 50 mg/kg) or non-TSCA, non-hazardous waste (for soil with PCBs less than 50 mg/kg)

The following four areas were identified with TCLP criteria exceedences for lead and/or cadmium:

- ES-SO2 (TSCA soil)
- ES-SO4 (TSCA soil)
- SB-11 (non-TSCA soil)
- JSS-10 (TSCA soil)

The Removal Plan designed for in-situ stabilization using a mix ratio of 5% Portland cement to 95% soil (w/w). However, as approved by the USEPA on October 19, 2009, the approach was modified to conduct the stabilization in stockpiled, rather than in-situ. This allowed for confirmation sampling to occur immediately upon soil removal instead of after receipt of the stabilization results from the lab.

In addition, soil was treated using a proprietary compound, EnviroBlend, instead of Portland cement. EnviroBlend is as effective as Portland cement for lead and cadmium, but requires only a 2% mixing ratio. Information on EnviroBlend is provided in the material safety data sheet (MSDS) in Appendix D.

Soil treatment involved spreading the EnviroBlend compound (approximately 2%) over the soil before excavation. Soil was then lightly stirred with the backhoe bucket and then excavated and placed onto a large sheet of polyethylene sheeting. The backhoe bucket was used to further stir and blend the soil until it appeared reasonably mixed. TSCA soil and non-TSCA soil were kept separate in their respective piles throughout the excavation, mixing, and disposal process.

Composite samples were collected from each of the TSCA and non-TSCA stock piles for analysis for TCLP Resource Conservation and Recovery Act (RCRA) metals to confirm treatment.

Based on the analytical results, both the TSCA and non-TSCA stabilized soil showed lead and cadmium leaching concentrations below regulatory levels of 5 mg/L and 1 mg/L, respectively. The TCLP confirmatory analytical results are provided in Appendix E.

4.6 EXCAVATION OF TSCA AND NON-TSCA SOIL

Excavation boundaries and depths of TSCA soil, exceeding 50 mg/kg total PCBs, and non-TSCA, less than 50 mg/kg total PCBs, were pre-defined by previous sampling. Figure 4.2 shows the excavation areas and depths.

All excavated soil was stockpiled prior to hauling. Stockpiles were underlined and covered with plastic sheeting and segregated into stabilized TSCA soil, stabilized non-TSCA soil, non-stabilized non-TSCA, and non-stabilized TSCA soil. Stabilization of soil is discussed further in the preceding section. Stockpiling soil allowed for confirmation sampling to occur immediately upon excavation instead of after receipt of the stabilization results from the lab. In addition, stockpiles were located in an area where trucks could be better accessed during the loading process.

Excavated soil was loaded into trucks from the stockpiles. Polyethylene sheeting was placed on the ground in the loading area. Once a truck was loaded, it was inspected for soil that had fallen outside of the box or on top of the side rails. Such soil was replaced back onto the polyethylene sheeting prior to the truck leaving the site.

The estimated amount of TSCA soil removed from each area are as follows:

- ES-SO2 Area 145 tons
- ES-SO4 Area 90 tons
- JSS-10 Area 85 tons

The estimated amount of non-TSCA soil removed are as follows:

- JB-1 Area 220 tons
- JSS-7 Area 45 tons
- JSS-8 Area 70 tons
- JSS-9 Area 125 tons

- SB-11 Area 145 tons
- SB-11 Area (concrete) 15 tons

Dust monitoring was conducted downwind of the work zone several times a day to determine that workers and off-Site personnel were not exposed. All dust monitoring showed that dust levels were well below the acceptable level established in the HASP (1.65 mg/m^3). During the early stages of this work, it rained heavily and dust was kept down to a minimum as a result. In addition, air temperatures during the course of the project were relatively cool, which contributed to low dust conditions. Several occasions during monitoring showed dust concentrations of less than 0.1 mg/m^3. Consequently, dust was not an issue during excavation or loading.

4.7 CONFIRMATION SAMPLING

Confirmation samples were collected as specified in the Sampling, Analysis, and Monitoring Plan. Confirmation samples were required for every 25 feet of sidewall length. Bottom confirmation samples were collected from the excavation area on an approximate 25-foot spaced grid. All confirmatory soil samples were discrete grab samples. The approximate locations of the confirmatory soil sample points are depicted on Figure 4.3.

Confirmation samples were analyzed for PCBs by Method 8082 and reported on a dry-weight basis, total lead and cadmium by method SW 6010B, and TCLP lead and cadmium by method SW 1311/6010B.

Terracon later collected samples of the bottom of the excavation areas for dioxins. At the time of this report, Terracon reported that the dioxin results were below the USEPA remedial limit established for the site of 1 μg/kg.

The confirmation sample results for the final excavation limits are presented on Table 4.2 and a copy of the laboratory reports are contained in Appendix F. The table shows that all of the samples representing the final extent (sidewalls or base) of the excavation are below the project cleanup levels.

4.8 BACKFILLING AND RESTORATION

Excavations were backfilled in area JB-1 and a portion of SB-11 after results from the confirmation samples indicated that the cleanup levels had been achieved. The remaining areas were left open as the City of Elgin will be grading this area in the near future. EQ provided approximately 360 tons of CA-6 dolomitic limestone for backfill.

The backfill certification information is provided in Appendix G. The CA-6 meets the Illinois Department of Transportation (IDOT) CA-6 specification as a finished driving surface.

In area JB-1, backfill was placed in 1-foot lifts and compacted with a smooth-drum roller. The SB-11 area was partially back filled to cover the re-rod protruding from the concrete along the eastern edge of the excavation as a safety measure.

During the course of the project, the City of Elgin requested that the shallow excavations remain open for additional sampling on their part. As a result, approximately 90 tons of CA-6 dolomitic limestone was unused and left stockpiled in the northwestern portion of the site.

4.9 WASTE DISPOSAL

The building debris was classified as a non-hazardous waste based on the waste profile and sampling from an earlier investigation. The building debris was removed in four loads (25.74 tons) of one dump truck and three roll-off containers. A copy of the waste profile form is provided in Appendix H-1 with the manifests and scale tickets in Appendix H-2. Non-hazardous waste was transported to the Orchard Hills Landfill in Davis Junction, Illinois. Orchard Hills Landfill is operated by Veolia Environmental Services Corporation.

TSCA soil (>50 mg/kg PCBs) was transported to Wayne Disposal PCB and Hazardous Waste Landfill in Belleville, Michigan, operated by the Environmental Quality Company (EQ). A copy of the approved waste profile form is provided in Appendix I-1, with the manifests, receipts, scale tickets transported and disposal certificates in Appendix I-2.

Non-TSCA soil (<50 mg/kg PCBs) was transported to Veolia's Orchard Hills Landfill. A copy of Veolia's certified Non-Special Waste forms are provided in Appendix J-1 with

the manifests and scale tickets in Appendix J-2. This waste profile was also approved for the concrete removed from the SB-11 area.

EQ subcontracted transportation of the TSCA waste to the Wayne Disposal Landfill to Beelman Trucking and to RA Seaton Company for transportation of non-TSCA waste to Veolia's Orchard Hills Landfill. All trucks were lined with polyethylene sheeting before they were loaded. The trucks were also securely covered before leaving the Site.

A total of 965.29 tons of soil, debris and concrete was removed from the site and disposed of at off-Site landfills. The total mass sent to each landfill was as follows:

• TSCA waste	Wayne Disposal Landfill (EQ)	320.13 tons
• Non-TSCA waste	Orchard Hills Landfill	645.16 tons

The Veolia's Orchard Hills Landfill was selected for disposal of the six drums of concrete wash/decon water. The water was classified as a non-hazardous waste based on samples collected on November 4, 2009. A waste profile of the drummed water was completed and approved on December 7, 2009. A copy of the approved waste profile and analytical results are provided in Appendix K-1. A copy of the uniform hazardous waste manifest that accompanied the six drums of water to the disposal facility is provided in Appendix K-2 along with a certificate of disposal/treatment.

4.10 EQUIPMENT DECONTAMINATION

Equipment was decontaminated prior to leaving the site. Decontamination involved brushing and power washing equipment. All soil, water, and polyethylene sheeting from TSCA decontamination was disposed of with TSCA waste. All soil, water and polyethylene sheeting from the non-TSCA, non-hazardous decontamination was disposed of with non-TSCA waste.

5.0 PERFORMANCE STANDARDS AND QUALITY CONTROL

Sampling conducted during the remedial action was completed to document that the cleanup level specified in the remedial action plan was met. Confirmation samples were collected from the sidewalls and base of the excavation.

5.1 QUALITY ASSURANCE / QUALITY CONTROL

Field sampling and laboratory analysis conducted for this removal action was completed according to the procedures established in the Sampling, Analysis and Monitoring Plan (April 2009). All analytical work was completed by TestAmerica Laboratories in North Canton, Ohio, an Illinois certified laboratory. Field instruments for the dust monitoring were provided by EQ.

Quality control samples were collected at the following frequency as required by the Sampling and Analysis Plan:

- Duplicates — 1 per 10 confirmation samples
- Rinsate blanks — 1 per 10 confirmation samples
- Matrix Spike/Matrix Spike Duplicates — 1 per 20 confirmation samples

A full validation of the project samples was completed by a CRA chemist after the lab reports were received. Copies of the Data Quality Assessment and Validation memos are contained in Appendix L.

Validation determined that the data exhibited acceptable levels of accuracy and precision and could be used without qualification. The validation confirms that the final confirmation sample results are below the cleanup levels.

6.0 PROFESSIONAL ENGINEER CERTIFICATION

Under penalty of law, I certify that to the best of my knowledge, after appropriate inquiries of all relevant persons involved in the preparation of the report, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Ronald Frehner, P.E.

Conestoga-Rovers & Associates, Inc. P.E. Seal
(184-003966 – expires 04/30/11)

Illinois Registration No.: 0062-051867

License Expiration Date: 11/30/11

Signature: _____

Date: _____

FIGURES

LEGEND

SITE BOUNDARY

N

0 500 1,000 ft

figure 1.1

SITE LOCATION
20 JEFFERSON AVENUE
Elgin, Illinois

54633-20(013)GIS-SP001 JAN 13/2010

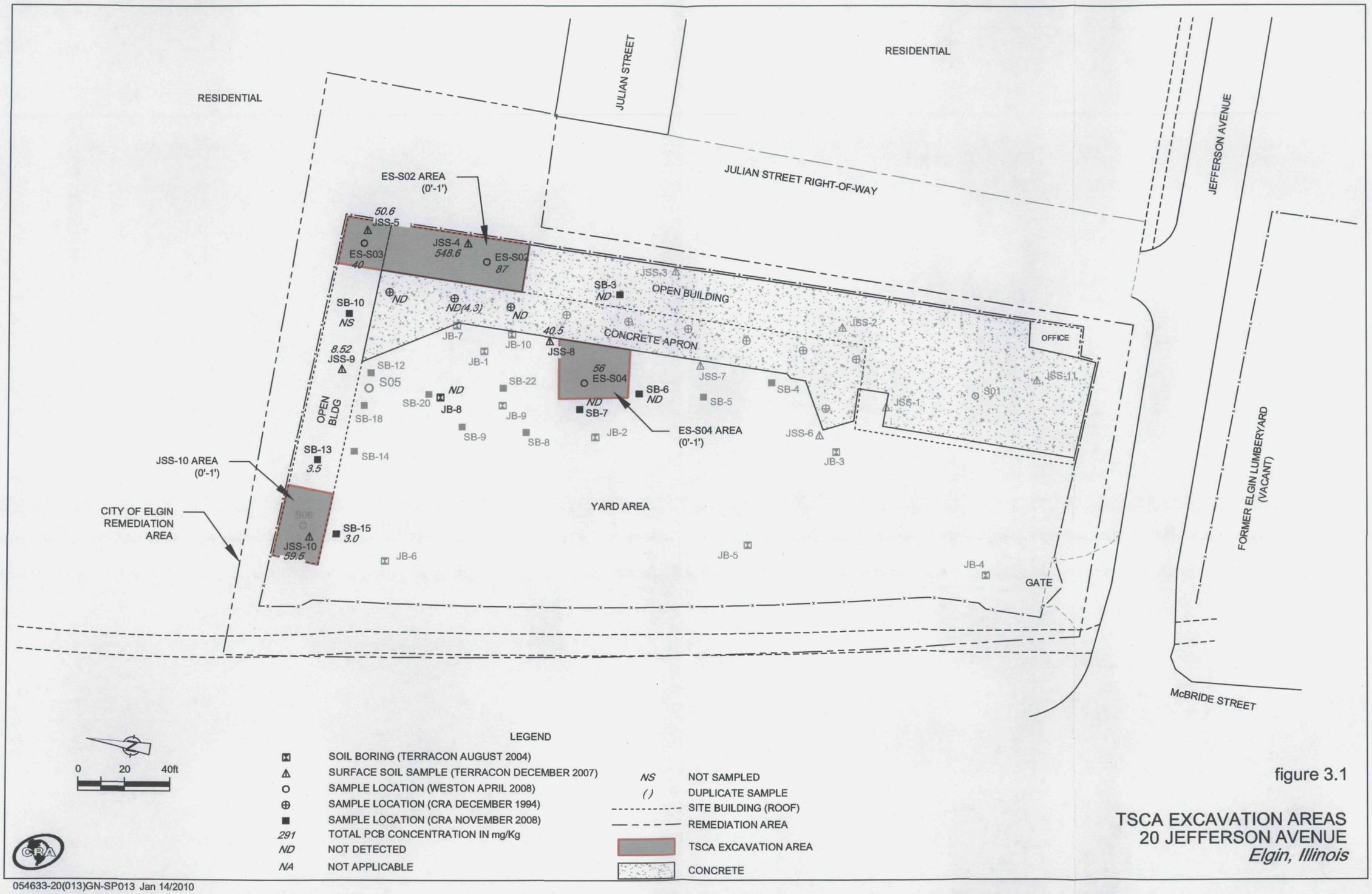

figure 3.1

TSCA EXCAVATION AREAS
20 JEFFERSON AVENUE
Elgin, Illinois

054633-20(013)GN-SP013 Jan 14/2010

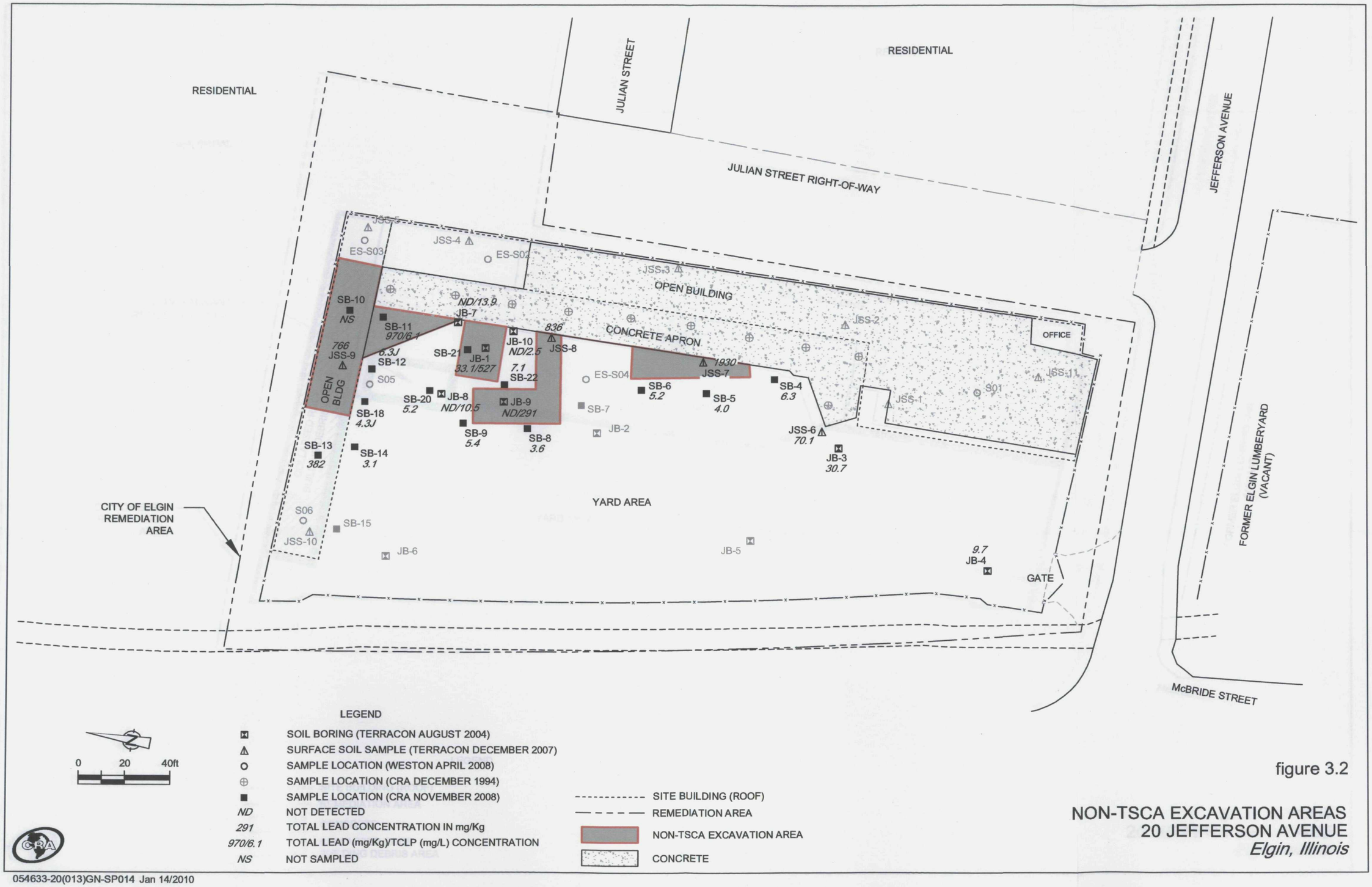

figure 3.2

NON-TSCA EXCAVATION AREAS
20 JEFFERSON AVENUE
Elgin, Illinois

054633-20(013)GN-SP014 Jan 14/2010

figure 4.1

SITE LAYOUT
20 JEFFERSON AVENUE
Elgin, Illinois

054633-20(013)GN-SP015 MAR 05/2009

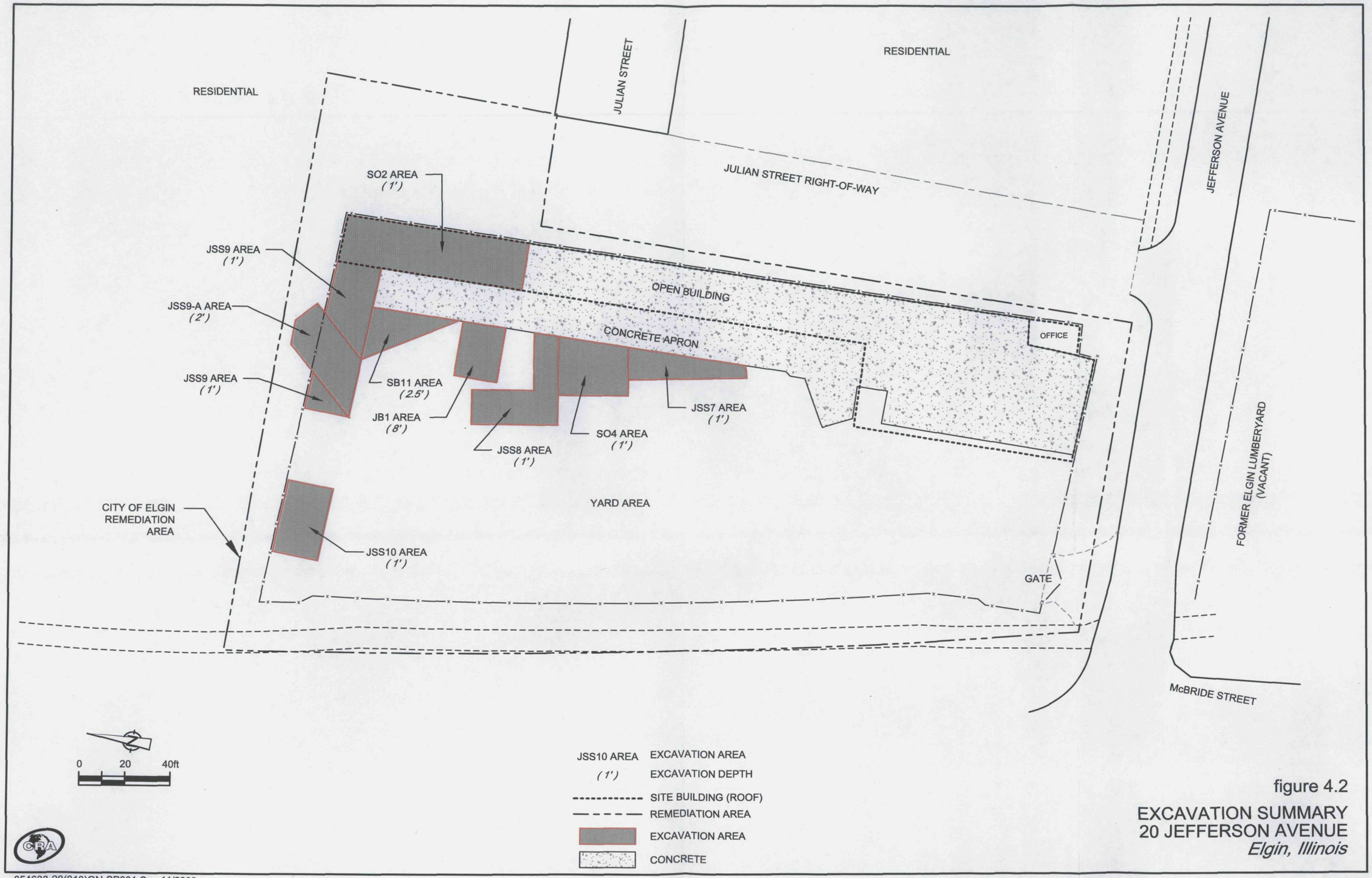

figure 4.2

EXCAVATION SUMMARY
20 JEFFERSON AVENUE
Elgin, Illinois

054633-20(013)GN-SP001 Sep 11/2009

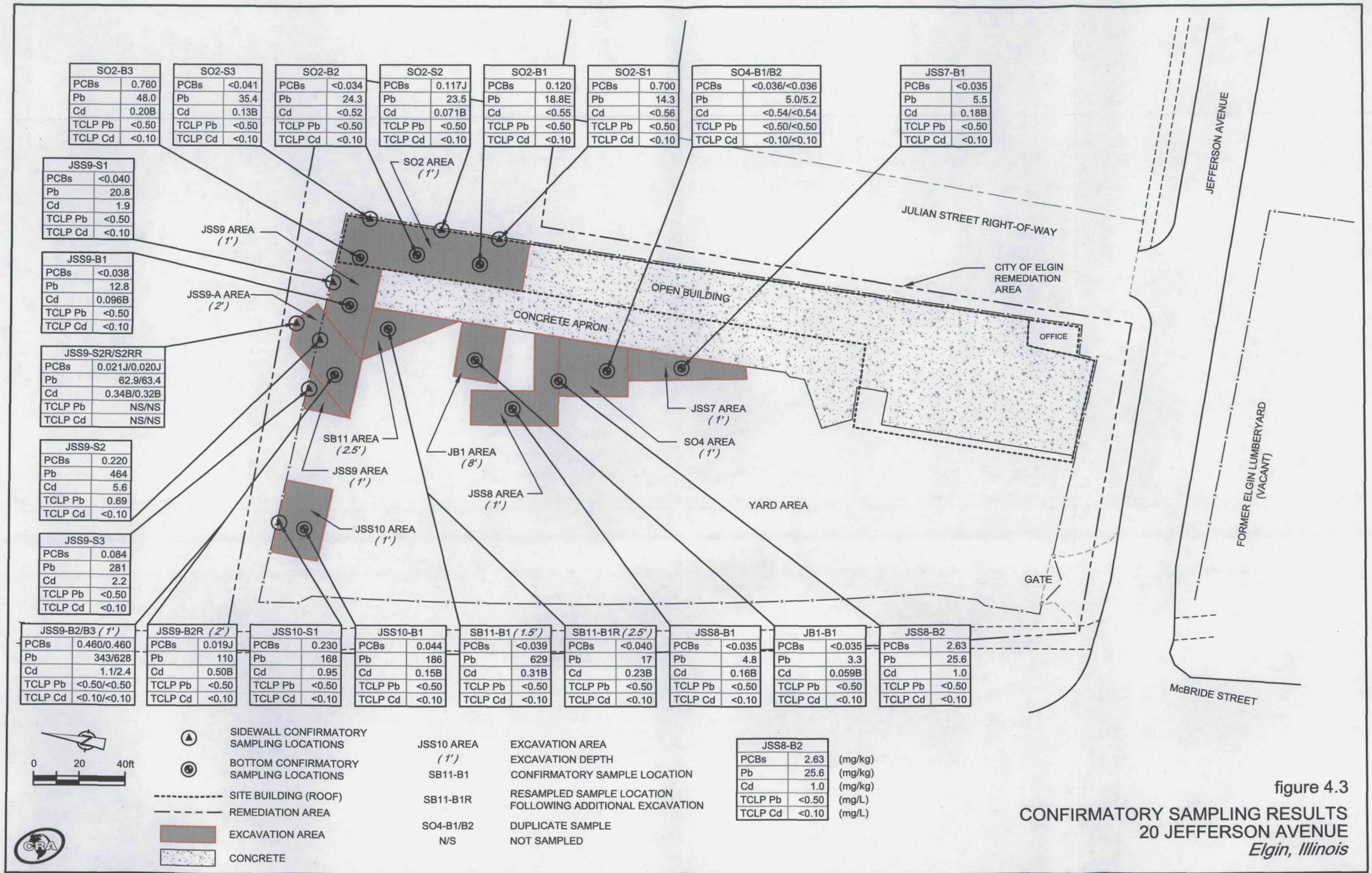

figure 4.3

CONFIRMATORY SAMPLING RESULTS
20 JEFFERSON AVENUE
Elgin, Illinois

054633-20(013)GN-SP002 Sep 11/2009

TABLES

TABLE 4.1

KEY PROJECT CONTACTS
20 JEFFERSON YARD
ELGIN, ILLINOIS

Conestoga-Rovers & Associates (CRA)
1801 Old Hwy 8 NW, Suite 114
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Steven Voss	651-639-0913

Environmental Quality Company (EQ)
36255 Michigan Avenue
Wayne, Michigan 48184

Ron Evenson	630-688-0123

Terracon
135 Ambassador Drive
Naperville, Illinois 60540

John Nardozzi	630-330-3034
Mark Wilson	630-717-4263

U.S. Environmental Protection Agency
Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604

Steve Faryan	312-802-0507

TABLE 4.2

CONFIRMATORY SAMPLING RESULTS SUMMARY
20 JEFFERSON YARD
ELGIN, ILLINOIS

Parameter / *Criteria* / *Sample ID*	*PCBs* *10 mg/kg*	*Total Pb* *400 mg/kg*	*Total Cd* *390 mg/kg*	*TCLP Pb* *5 mg/L*	*TCLP Cd* *1 mg/L*	*TCLP As* *5 mg/L*	*TCLP Ba* *100 mg/L*	*TCLP Cr* *5 mg/L*	*TCLP Hg* *0.2 mg/L*	*TCLP Se* *1 mg/L*	*TCLP Ag* *5 mg/L*
TSCA Soil	n/s	n/s	n/s	0.18 B	0.026 B	<0.50	0.74 B	<0.50	<0.0020	<0.25	<0.50
TSCA Stab	n/s	n/s	n/s	0.38 B	0.075 B	<0.50	0.70 B	<0.50 U	<0.0020	<0.25 U	<0.50
Non-TSCA Stab	n/s	n/s	n/s	2.1	0.22	<0.50	0.79 B	<0.50	<0.0020	0.0057 B	<0.50
SB11-B1	<0.039	629	0.31 B	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
SB11-B1R	<0.040	17	0.23 B	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
SO2-B1	0.120	18.8 J	<0.55	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
SO2-B2	<0.034	24.3	<0.52	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
SO2-B3	0.760	48.0	0.20 B	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
SO2-S1	0.700	14.3	<0.56	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
SO2-S2	0.117 J	23.5	0.071 B	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
SO2-S3	<0.041	35.4	0.13 B	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
SO4-B1	<0.036	5.0	<0.54	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
SO4-B2	<0.036	5.2	<0.54	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS10-S1	0.230	168	0.95	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS10-B1	0.044	186	0.15 B	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS7-B1	<0.035	5.5	0.18 B	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS8-B1	<0.035	4.8	0.16 B	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS8-B2	2.63	25.6	1.0	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS9-S1	<0.040	20.8	1.9	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS9-S2	0.220	464	5.6	0.69	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS9-S2R	0.021 J	62.9 J	0.34 B	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
JSS9-S2RR	0.020 J	63.4 J	0.32 B	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
JSS9-S3	0.084	281	2.2	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS9-B1	<0.038	12.8	0.096 B	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS9-B2	0.460	343 J	1.1	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS9-B3	0.460	628 J	2.4	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JSS9-B2R	0.019 J	110 J	0.50 B	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
JB1-B1	<0.035	3.3	0.059 B	<0.50	<0.10	n/s	n/s	n/s	n/s	n/s	n/s
RB-1	nd	nd	nd	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
RB-2	nd	nd	nd	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s
RB-3	nd	nd	nd	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s

Notes:

628 - Sample result exceeds project cleanup criteria
nd - Non-detect
ns - Not sampled
B - Below detection limit
J - Estimated concentration
U - Not present at or above the associated value

APPENDICES

APPENDIX A

USEPA ADMINISTRATIVE ORDER ON CONSENT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

OCT 14 2009

REPLY TO THE ATTENTION OF:
S-6J

Commonwealth Edison Company
AT & T Corp.
Fermi Research Alliance, LLC
c/o Mr. Alan P. Bielawski
Attorney at Law
Sidley Austin LLP
One South Dearborn Street
Chicago, Illinois 60603

Re: Elgin Salvage & Supply Site OU01, 20 Jefferson Yard
Elgin, Illinois (Kane County)

Dear Mr. Bielawski:

Enclosed please find an executed copy of the Administrative Settlement Agreement and Order on Consent for Removal Action (Order) issued for this Site pursuant to Sections 104, 106, 107 and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended, 42 U.S.C. §§ 9604, 9606, 9607 and 9622. Thank you for your cooperation in this matter.

If you have any questions regarding this Order, please contact Tom Turner, Associate Regional Counsel, at (312) 886-6613 or Steve Faryan, On-Scene Coordinator, at (312) 353-9351.

Sincerely,

Richard C. Karl, Director
Superfund Division

Enclosure

cc: Mr. Gary King
Acting Bureau Chief, Illinois Environmental Protection Agency

Recycled/Recyclable • Printed with Vegetable Oil Based Inks on 100% Recycled Paper (50% Postconsumer)

APPENDIX B

SITE PHOTO LOG

Photo 1 - Site view facing north before excavation

Photo 2 - Site view facing north during excavation

SITE PHOTOGRAPHS

Photo 3 - Collapse of the roof during debris removal

Photo 4 - removing newly collapsed roof section

SITE PHOTOGRAPHS

Photo 5 - Loading building debris into rolloffs

Photo 6 - Mixing EnviroBlend and soil in ES-SO2 area

SITE PHOTOGRAPHS

Photo 7 - Excavation in the ES-SO2 area

Photo 8 - Excavation area JSS-7, facing southwest

SITE PHOTOGRAPHS

Photo 9 - Pressure washing concrete

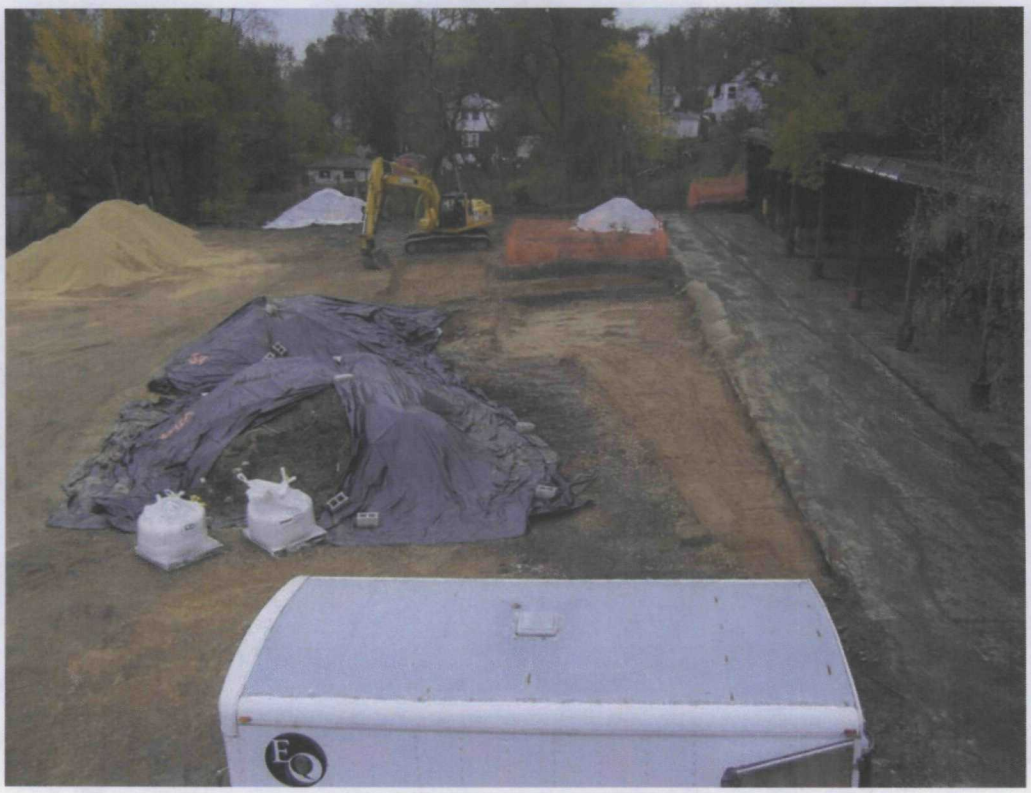

Photo 10 - Site view showing soil piles and excavation areas

SITE PHOTOGRAPHS

Photo 11 - Excavation area JB-10 at 8 feet deep

Photo 12 - Loading truck with TSCA waste

SITE PHOTOGRAPHS

Photo 13 - Trucks waiting to be loaded

Photo 14 - Loading the final load of TSCA soil

SITE PHOTOGRAPHS

Photo 15 - Pressure washing the backhoe

Photo 16 - Pressure washing the Bobcat

SITE PHOTOGRAPHS

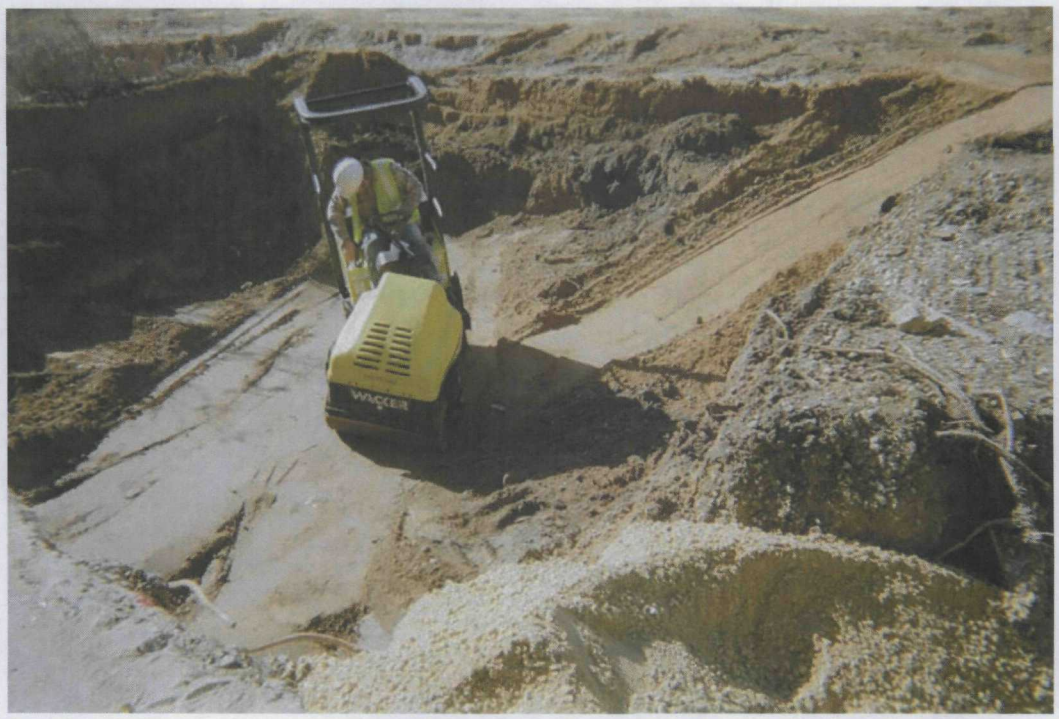

Photo 17 - Compacting backfill in JB-1 area

Photo 18 - Compacting backfill in one foot lifts in JB-1 area

SITE PHOTOGRAPHS

Photo 19 - SB-11 area showing backfill along the western side

Photo 20 - Shoring of pillar near ES-SO2 area

SITE PHOTOGRAPHS

Photo 21 - Concrete after washing

Photo 22 - ES-SO2 area after excavation and after cement washing

SITE PHOTOGRAPHS

Photo 23 - Cleaned concrete, drummed wash water and leftover EnviroBlend

Photo 24 - Site view facing north after completion

SITE PHOTOGRAPHS

APPENDIX C

UTILITY CLEARANCE FORM

PROPERTY ACCESS/UTILITY CLEARANCE DATA SHEET

(QSF-019)

PROJECT NAME: Jefferson Yard PROJECT NUMBER: 054633

CRA REPRESENTATIVE: Peter Storlie

CLIENT: Jefferson Yard Remedial Action Group CLIENT REPRESENTATIVE: _____ PHONE: _____

ON-SITE PROPERTY ACCESS APPROVAL _____ (OWNER OR AUTHORIZED AGENT SIGNATURE)

OFF-SITE PROPERTY ACCESS APPROVAL (if applicable) _____ (OWNER OR AUTHORIZED AGENT SIGNATURE)

UTILITY CLEARANCE APPROVAL Julie # X2880961 as per Jeremy DeGrande (OWNER OR AUTHORIZED AGENT SIGNATURE)

CONTRACTOR VERIFICATION APPROVAL R. Eve (OWNER OR AUTHORIZED AGENT SIGNATURE)

UTILITIES (INDICATE THAT LOCATION/UTILITY PRESENCE WAS CHECKED) *												
Borehole/ Excavation Location	Date (m/d/y)	Telephone	Water	Storm Sewer	Sanitary Sewer	Process Sewer	Gas	Electrical	Cable	Overhead Utilities	Other	Comments/Warnings
ALL	10-20-99							X		X		overhead
↓	10-20-99	X	X	X	X	X	X	X	X	X		

Additional Comments:

_____

_____

_____

* Note as appropriate, Contractor, Client or Owner, or Agent to sign, indicating no utilities are at the selected borehole/excavation locations.

THIS COMPLETED FORM IS A QUALITY RECORD

APPENDIX D

MSDS FOR ENVIROBLEND

MATERIAL SAFETY DATA SHEET

PREMIER CHEMICALS

MSDS No.: 2650
Date Prepared: 02/08
This Revision:

Phone: PREMIER CHEMICALS: 1-800-227-4287
CHEMTREC, 24-Hr Emergency Assistance: 1-800-424-9300

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material / Product Name(s): **ENVIRO BLEND®**
CAS Number: Mixture
Chemical Family: Inorganic - Mineral
General Use: A varying mix of magnesium oxide and calcium phosphates. Mix ratio depends on customer requirement and may vary from 1-99. Product used for metal containing waste stabilization.
Manufacturer / Supplier: PREMIER CHEMICALS, LLC
300 Barr Harbor
Suite 250
West Conshohocken, PA 19428-2998

SECTION 2. INGREDIENTS / COMPOSITION

Ingredient name:	CAS Number:	Percent:	IARC/NTP/OSHA:	Exposure Limits:
Nonhazardous Ingredients: A variable blend of magnesium oxide and calcium phosphates	1309-48-4 7758-23-8 & 7758-87-4	99-100	No	Nuisance Particulate OSHA PEL:TWA 15mg/m^3;respirable: 5mg/m^3. ACGIH TLV:TWA Total dust:10mg/m^3; respirable dust: 5mg/m^3.
Phosphoric Acid	7664-38-2	0 - 1	No	OSHA PEL:TWA 1.0mg/m^3; STEL 3.0mg/m^3 as mist.
Quartz*	14808-60-7	<1	Yes	ACGIH TLV:TWA respirable quartz 0.05mg/m^3.

***Quartz**. Product may contain a trace of quartz, a polymorph of crystalline silica, which is classified by IARC as a "Known Human Carcinogen - Group 1.". NTP lists respirable crystalline silica amongst substances which may "reasonably be anticipated to be carcinogens".

SECTION 3. HAZARDS IDENTIFICATION

HMIS

HEALTH HAZARD	1 - SLIGHT
FLAMMABILITY HAZARD	0 - MINIMAL
REACTIVITY HAZARD	1 - SLIGHT
PERSONAL PROTECTION	B - Glasses, Gloves

EMERGENCY OVERVIEW:
Off-white to gray free flowing powder. Blends high in magnesium oxide. Will react with water generating some heat. Not a fire or spill hazard. Low toxicity. Dust is classified as a "nuisance particulate not otherwise regulated".

Target Organs: Chronic overexposure may cause lung damage.
Primary route(s) of entry: Inhalation
Acute effects: Excessive exposure to airborne particulate may cause eye and upper respiratory irritation.
Chronic effects: Product dust is classified as a "nuisance particulate, not otherwise regulated" as specified by ACGIH and OSHA. The excessive, long-term inhalation of mineral dusts may contribute to the development of industrial bronchitis, reduced breathing capacity, and may lead to the increased susceptibility to lung disease.

 HAZARD IDENTIFICATION continues on page 2

HAZARD IDENTIFICATION continued from page 1

Signs & symptoms of overexposure:

Eye contact: Particulate is a physical eye irritant.
Skin contact: Low toxicity by skin contact.
Inhalation: Chronic overexposure by inhalation of airborne particulate may irritate upper respiratory system as well as the throat.
Ingestion: An unlikely route of exposure. If ingested in sufficient quantity, may cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting and diarrhea.

SECTION 4. FIRST AID MEASURES

Eye contact: Flush eyes, including under the eyelids, with large amounts of water. If irritation persists, seek medical attention.
Skin contact: Wash affected areas with mild soap and water.
Inhalation: Remove victim to fresh air. If not breathing, give artificial respiration. Get immediate medical attention.
Ingestion: Ingestion is an unlikely route of exposure. If ingested in sufficient quantity and victim is conscious, give 1-2 glasses of water or milk. Never give anything by mouth to an unconscious person. Leave decision to induce vomiting to qualified medical personnel, since particles may be aspirated into the lungs. Seek immediate medical attention.

SECTION 5. FIRE FIGHTING MEASURES

NFPA code: Flammability: 0, **Health:** 0, **Reactivity:** 1, **Special:** 0.
Flash point: Not Combustible
Unusual Fire Hazard / Extinguishing Media: Product will react with water generating some heat. Use sufficient water to dissipate any excessive heat buildup.
Hazardous Decomposition Products: None
Firefighting Instructions: Firefighters should wear NIOSH-approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill procedures: Product is not harmful to the environment. Carefully, clean up and place spilled material into a suitable container, being careful to avoid creating excessive dust. If conditions warrant, clean up personnel should wear approved respiratory protection, gloves, and goggles to prevent irritation from contact and/or inhalation.

SECTION 7. HANDLING AND STORAGE

Storage: Store in dry, protected storage. Do not allow water to get inside containers; reaction with water will cause product to swell, generate heat, and burst its container. Exposed and unprotected the product will absorb moisture from the air. Minimize dust generation during material handling and transfer.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering controls: Provide sufficient ventilation, in both volume and air flow patterns to control mist/dust concentrations below allowable exposure limits.
Personal protective equipment: The use of eye protection, gloves and long sleeve clothing is recommended.
Respiration protection: Provide workers with NIOSH approved respirators in accordance with requirements of 29 CFR 1910.134 for level of exposure incurred.
Hygienic Practices: Avoid contact with skin eyes and clothing. After handling this product, wash hands before eating or drinking.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: A grayish-brown free flowing powder; odorless.
Boiling Point: Not Applicable **Specific Gravity (g/cc):** Mixture
Melting Point: >3800°F (>2100°C) **% Volatile by volume:** 0
Water Solubility: Slight <1% **Evaporation rate:** Not Applicable
pH (10% aqueous slurry): 2.5-10 (depending on blend ratio)
Bulk Density (lbs./cu.ft.): 45-70 (depending on blend ratio)

SECTION 10. STABILITY AND REACTIVITY

Hazardous Polymerization: Will not occur
Chemical Incompatibilities: The magnesium oxide component is soluble in aqueous acids generating heat and steam; violent reaction or ignition with interhalogens (e.g., bromine pentifluoride; chlorine trifluoride). Incandescent reaction with phosphorus pentachloride. Will react with water generating some heat.
Hazardous Decomposition Products: None

SECTION 11. TOXICOLOGICAL INFORMATION

Magnesium Oxide CAS #1309-48-4 Toxic and Hazard Review: low toxicity - a nutrient and/or dietary supplement food additive. THERAP CAT: antacid. (Sax) an experimental tumorigen. Inhalation of fume (not MgO dust particular) produced upon decomposition of magnesium compounds can produce a febrile reaction and leukocytosis in humans.

TOXICITY DATA: ihl-hmn TCLo:400mg/m^3; itr-ham TDLo:480 mg/kg/30w-I:ETA.

Triple Super Phosphate CAS#65996-95-4. Produced by addition of phosphoric acid to phosphate rock. Can contain up to 1% phosphoric acid. Phosphoric acid is cited as a human poison by unspecified route. Moderately toxic by ingestion and skin contact. A corrosive irritant to eyes, skin and mucous membranes and a systemic irritant by inhalation. (Please note, any free phosphoric acid in the triple super phosphate will react with the magnesium oxide component of the product forming a magnesium phosphate - the product will not contain any free acid.)

TOXICITY DATA: No LD_{50} or LC_{50} found for oral, dermal, or inhalation routes of administration.

Quartz CAS #14808-60-7. Toxic and Hazard Review (Sax): Experimental poison by inratracheal and intravenous routes. An experimental carcinogen, tumorigen, and neoplastigen. Human systemic effects by inhalation: cough, dyspnea, liver effects. Listed by IARC as a "Known Human Carcinogen" Group 1. Listed by NTP. No LD_{50} in RTECS. Inhalation human: TCLo 16 million particles per cubic centimeter per 8 hours per 17.9 Years-Intermittent:: Pulmonary system effects; Inhalation-human LCLo: 300 micrograms/m^3 per 10 years-intermittent liver. Other species toxicity data (NIOSH RTECS): intravenous-rat LDLo: 90mg/kg; intraperitoneal-rat LDLo: 20mg/kg; intravenous-mouse LDLo: 40mg/kg; intravenous-dog LDLo: 20mg/kg.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicological / Chemical Fate Information:
No data available on any adverse effects of this material on the environment.

 MSDS continues on page 4

SECTION 13. DISPOSAL INFORMATION

Waste Management/Disposal: This product, as manufactured will not exhibit any characteristics of a hazardous waste, and is suitable for landfill disposal. Please be advised, however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material. If, however, the product has been altered or contaminated with other hazardous materials, appropriate waste analysis may be necessary to determine the proper method for disposal. Waste characterization and disposal/treatment methods should be determined by a qualified environmental professional in accordance with applicable federal, state and local regulations.

SECTION 14. TRANSPORT INFORMATION

US Department of Transportation: Not regulated by DOT as a hazardous material. No hazard class, no label or placard required, no UN or NA number assigned.
Canadian TDG Hazard Class & Pin: Not regulated.

SECTION 15. REGULATORY INFORMATION

Product or components of mixture regulated under following lists:
SARA TITLE III:

Section 302: NO (Extremely Hazardous Substances)
Section 304: NO (Emergency Release)
Section 311: YES (*Community Right-to-Know*, MSDSs or List of Chemicals)
Section 312: YES (*Community Right-to-Know*, Inventory and Location, (Tier I/II))
Section 313: NO (Toxic Chemicals, Toxic Chemical Release Reporting, Form R)

TSCA: All substances in this product are listed in the Chemical Substance Inventory of the Toxic Substances Control Act.
CERCLA Hazardous Substance List, RQ: No
California Proposition 65: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive toxins.

SECTION 16. OTHER INFORMATION

ACRONYMS AND REFERENCES USED IN PREPARATION OF MSDS':

ACGIH:	American Conference of Governmental Industrial Hygienists
CAS#:	CAS Registration Number is an assigned number to identify a material. CAS stands for Chemical Abstracts Service.
CERCLA:	Comprehensive Environmental Response, Compensation & Liability Act
EPCRA:	Emergency Planning and Community Right-to-Know Act of 1986
HMIS™:	Hazardous Materials Identification System (National Paint & Coatings Association)
IARC:	International Agency for Research on Cancer
MSHA:	Mine Safety and Health Administration

 MSDS continues on page 5

mg/m^3:	Milligrams per cubic meter
NIOSH:	National Institute for Occupational Safety and Health
NFPA:	National Fire Protection Association
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit (OSHA)
REL:	Recommended Exposure Limit (OSHA)
SARA:	Superfund Amendments and Reauthorization Act
TITLE III:	Emergency Planning and Community Right-to-Know Act
Section 302:	Extremely Hazardous Substances
Section 304:	Emergency Release
Section 311:	*Community Right-to-Know*, MSDSs or List of Chemicals
Section 312:	*Community Right-to-Know*, Inventory and Location, (Tier I/II)
Section 313:	Toxic Chemicals, Toxic Chemical Release Reporting, Form R
TLV:	Threshold Limit Values (ACGIH)
TWA:	Time Weighted Average
29CFR1910.134:	OSHA Respiratory Protection Standard

REFERENCES:

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Kirk, R. and Othmer, D., Encyclopedia of Chemical Technology, Third Edition, Wiley-Interscience, New York, NY 1982.
Clansky, K.B., Suspect Chemicals Sourcebook, 1992-2nd Edition, Roytech Publications, Bethesda, Maryland.
Sax, N. Irving and Lewis, R.J. Hawley's Condensed Chemical Dictionary, Eleventh Ed., Van Nostrand Reinhold Co., Inc., NY
Manufacturers / Suppliers, Material Safety Data Sheets on Raw Materials Used
American National Standard for Hazardous Industrial Chemicals - Material Safety Data Sheets - Preparation, American National Standards Institute, Inc., 11 West 42nd St, New York, NY 10036.

Prepared/revised: Mark A. Shand February 14, 2008

Although reasonable care has been taken in the preparation of the information contained herein, Premier Chemicals extends no warranties, makes no representation and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.

APPENDIX E

ANALYTICAL RESULTS OF STABILIZED SOIL

TestAmerica

ANALYTICAL REPORT

Grant Anderson
Conestoga-Rovers & Associates, Inc.
PROJECT NO. 054633
JEFFERSON YARD

SAMPLE SUMMARY

WO #	LABORATORY ID	SAMPLE IDENTIFICATION
LM974	A9J260134-001	TSCA SOIL
LM975	A9J260134-002	TSCA STABILIZED
LM98C	A9J260134-003	NON-TSCA STABILIZED

TESTAMERICA LABORATORIES, INC.

Denise D Heckler

Approved for release.
Denise D Heckler
Project Manager
10/29/2009 9:51 AM

Denise D. Heckler
Project Manager
denise.heckler@testamericainc.com

October 29, 2009

CASE NARRATIVE

A9J260134

The following report contains the analytical results for three solid samples submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the Jefferson Yard Site, project number 054633. The samples were received October 26, 2009, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Grant Anderson, Pete Storlie and Steve Voss on October 28, 2009. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 5.4°C.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

EXECUTIVE SUMMARY - Detection Highlights

A9J260134

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
TSCA SOIL 10/23/09 11:35 001				
Barium - TCLP	0.74 B	10.0	mg/L	SW846 6010B
Cadmium - TCLP	0.026 B	0.10	mg/L	SW846 6010B
Lead - TCLP	0.18 B	0.50	mg/L	SW846 6010B
TSCA STABILIZED 10/23/09 11:35 002				
Barium - TCLP	0.70 B	10.0	mg/L	SW846 6010B
Cadmium - TCLP	0.075 B	0.10	mg/L	SW846 6010B
Chromium - TCLP	0.0026 B	0.50	mg/L	SW846 6010B
Lead - TCLP	0.38 B	0.50	mg/L	SW846 6010B
Selenium - TCLP	0.0052 B	0.25	mg/L	SW846 6010B
NON-TSCA STABILIZED 10/23/09 14:15 003				
Barium - TCLP	0.79 B	10.0	mg/L	SW846 6010B
Cadmium - TCLP	0.22	0.10	mg/L	SW846 6010B
Lead - TCLP	2.1	0.50	mg/L	SW846 6010B
Selenium - TCLP	0.0057 B	0.25	mg/L	SW846 6010B

ANALYTICAL METHODS SUMMARY

A9J260134

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A

References:

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

SAMPLE SUMMARY

A9J260134

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAM TI
LM974	001	TSCA SOIL	10/23/09	11:
LM975	002	TSCA STABILIZED	10/23/09	11
LM98C	003	NON-TSCA STABILIZED	10/23/09	14

NOTE(S):

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

Conestoga-Rovers & Associates, Inc.

Client Sample ID: TSCA SOIL

TCLP Metals

Lot-Sample #...: A9J260134-001 **Matrix.....:** SO
Date Sampled...: 10/23/09 11:35 **Date Received..:** 10/26/09
Leach Date.....: 10/26/09 **Leach Batch #..:** P929905

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9300019						
Arsenic	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9741AD
		Dilution Factor: 1		MDL.....: 0.0032		
Barium	**0.74 B**	**10.0**	**mg/L**	**SW846 6010B**	**10/27-10/28/09**	**LM9741AE**
		Dilution Factor: 1		MDL.....: 0.00067		
Cadmium	**0.026 B**	**0.10**	**mg/L**	**SW846 6010B**	**10/27-10/28/09**	**LM9741AF**
		Dilution Factor: 1		MDL.....: 0.00066		
Chromium	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9741AG
		Dilution Factor: 1		MDL.....: 0.0022		
Lead	**0.18 B**	**0.50**	**mg/L**	**SW846 6010B**	**10/27-10/28/09**	**LM9741AH**
		Dilution Factor: 1		MDL.....: 0.0019		
Selenium	ND	0.25	mg/L	SW846 6010B	10/27-10/28/09	LM9741AJ
		Dilution Factor: 1		MDL.....: 0.0041		
Silver	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9741AK
		Dilution Factor: 1		MDL.....: 0.0022		
Mercury	ND	0.0020	mg/L	SW846 7470A	10/27/09	LM9741AC
		Dilution Factor: 1		MDL.....: 0.00012		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: TSCA STABILIZED

TCLP Metals

Lot-Sample #...: A9J260134-002 **Matrix.....:** SO
Date Sampled...: 10/23/09 11:35 **Date Received..:** 10/26/09
Leach Date.....: 10/25/09 **Leach Batch #..:** P929802

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9299014						
Arsenic	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9751
		Dilution Factor: 1		MDL.....: 0.0032		
Barium	**0.70 B**	**10.0**	**mg/L**	**SW846 6010B**	**10/27-10/28/09**	**LM9751**
		Dilution Factor: 1		MDL.....: 0.00067		
Cadmium	**0.075 B**	**0.10**	**mg/L**	**SW846 6010B**	**10/27-10/28/09**	**LM9751**
		Dilution Factor: 1		MDL.....: 0.00066		
Chromium	**0.0026 B**	**0.50**	**mg/L**	**SW846 6010B**	**10/27-10/28/09**	**LM9751**
		Dilution Factor: 1		MDL.....: 0.0022		
Lead	**0.38 B**	**0.50**	**mg/L**	**SW846 6010B**	**10/27-10/28/09**	**LM9751A**
		Dilution Factor: 1		MDL.....: 0.0019		
Selenium	**0.0052 B**	**0.25**	**mg/L**	**SW846 6010B**	**10/27-10/28/09**	**LM9751A**
		Dilution Factor: 1		MDL.....: 0.0041		
Silver	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9751A
		Dilution Factor: 1		MDL.....: 0.0022		
Mercury	ND	0.0020	mg/L	SW846 7470A	10/27/09	LM9751A
		Dilution Factor: 1		MDL.....: 0.00012		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: NON-TSCA STABILIZED

TCLP Metals

Lot-Sample #...: A9J260134-003 Matrix.....: SO
Date Sampled...: 10/23/09 14:15 Date Received..: 10/26/09
Leach Date.....: 10/26/09 Leach Batch #..: P929905

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9300019						
Arsenic	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM98C1AD
		Dilution Factor: 1		MDL.....: 0.0032		
Barium	**0.79 B**	**10.0**	**mg/L**	**SW846 6010B**	**10/27-10/28/09**	**LM98C1AE**
		Dilution Factor: 1		MDL.....: 0.00067		
Cadmium	**0.22**	**0.10**	**mg/L**	**SW846 6010B**	**10/27-10/28/09**	**LM98C1AF**
		Dilution Factor: 1		MDL.....: 0.00066		
Chromium	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM98C1AG
		Dilution Factor: 1		MDL.....: 0.0022		
Lead	**2.1**	**0.50**	**mg/L**	**SW846 6010B**	**10/27-10/28/09**	**LM98C1AH**
		Dilution Factor: 1		MDL.....: 0.0019		
Selenium	**0.0057 B**	**0.25**	**mg/L**	**SW846 6010B**	**10/27-10/28/09**	**LM98C1AJ**
		Dilution Factor: 1		MDL.....: 0.0041		
Silver	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM98C1AK
		Dilution Factor: 1		MDL.....: 0.0022		
Mercury	ND	0.0020	mg/L	SW846 7470A	10/27/09	LM98C1AC
		Dilution Factor: 1		MDL.....: 0.00012		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

B Estimated result. Result is less than RL.

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QUALITY CONTROL SECTION

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: A9J260134 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A9J250000-023		**Prep Batch #...:** 9299014				
Leach Date.....: 10/25/09		**Leach Batch #..:** P929802				
Arsenic	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9MP1AC
		Dilution Factor: 1				
Barium	**0.0036 B**	**10.0**	**mg/L**	**SW846 6010B**	**10/27-10/28/09**	**LM9MP1AD**
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010B	10/27-10/28/09	LM9MP1AE
		Dilution Factor: 1				
Chromium	**0.0046 B**	**0.50**	**mg/L**	**SW846 6010B**	**10/27-10/28/09**	**LM9MP1AF**
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9MP1AG
		Dilution Factor: 1				
Selenium	**0.0067 B**	**0.25**	**mg/L**	**SW846 6010B**	**10/27-10/28/09**	**LM9MP1AH**
		Dilution Factor: 1				
Silver	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9MP1AJ
		Dilution Factor: 1				
Mercury	ND	0.0020	mg/L	SW846 7470A	10/27/09	LM9MP1AA
		Dilution Factor: 1				
MB Lot-Sample #: A9J260000-145		**Prep Batch #...:** 9300019				
Leach Date.....: 10/26/09		**Leach Batch #..:** P929905				
Arsenic	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9VE1AE
		Dilution Factor: 1				
Barium	**0.0017 B**	**10.0**	**mg/L**	**SW846 6010B**	**10/27-10/28/09**	**LM9VE1AF**
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010B	10/27-10/28/09	LM9VE1AG
		Dilution Factor: 1				
Chromium	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9VE1AH
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9VE1AJ
		Dilution Factor: 1				

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METHOD BLANK REPORT

TCLP Metals

Client Lot #...: A9J260134 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	0.25	mg/L	SW846 6010B	10/27-10/28/09	LM9VE1A
		Dilution Factor: 1				
Silver	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9VE1A
		Dilution Factor: 1				
Mercury	ND	0.0020	mg/L	SW846 7470A	10/27/09	LM9VE1A
		Dilution Factor: 1				

NOTE(S):

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

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: A9J260134 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A9J260000-014 **Prep Batch #...:** 9299014						
Arsenic	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9ND1AC
		Dilution Factor: 1				
Barium	ND	10.0	mg/L	SW846 6010B	10/27-10/28/09	LM9ND1AD
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010B	10/27-10/28/09	LM9ND1AE
		Dilution Factor: 1				
Chromium	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9ND1AF
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9ND1AG
		Dilution Factor: 1				
Selenium	ND	0.25	mg/L	SW846 6010B	10/27-10/28/09	LM9ND1AH
		Dilution Factor: 1				
Silver	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM9ND1AJ
		Dilution Factor: 1				
Mercury	ND	0.0020	mg/L	SW846 7470A	10/27/09	LM9ND1AA
		Dilution Factor: 1				
MB Lot-Sample #: A9J270000-019 **Prep Batch #...:** 9300019						
Arsenic	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LNAVM1AD
		Dilution Factor: 1				
Barium	ND	10.0	mg/L	SW846 6010B	10/27-10/28/09	LNAVM1AE
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010B	10/27-10/28/09	LNAVM1AF
		Dilution Factor: 1				
Chromium	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LNAVM1AG
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LNAVM1AH
		Dilution Factor: 1				
Selenium	ND	0.25	mg/L	SW846 6010B	10/27-10/28/09	LNAVM1AJ
		Dilution Factor: 1				

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METHOD BLANK REPORT

TCLP Metals

Client Lot #...: A9J260134 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LNAVM1A
		Dilution Factor: 1				
Mercury	ND	0.0020	mg/L	SW846 7470A	10/27/09	LNAVM1A
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A9J260134 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9J260000-014 **Prep Batch #...:** 9299014					
Arsenic	104	(50 - 150)	SW846 6010B	10/27-10/28/09	LM9ND1AL
		Dilution Factor: 1			
Barium	106	(50 - 150)	SW846 6010B	10/27-10/28/09	LM9ND1AM
		Dilution Factor: 1			
Cadmium	108	(50 - 150)	SW846 6010B	10/27-10/28/09	LM9ND1AN
		Dilution Factor: 1			
Chromium	101	(50 - 150)	SW846 6010B	10/27-10/28/09	LM9ND1AP
		Dilution Factor: 1			
Lead	106	(50 - 150)	SW846 6010B	10/27-10/28/09	LM9ND1AQ
		Dilution Factor: 1			
Selenium	113	(50 - 150)	SW846 6010B	10/27-10/28/09	LM9ND1AR
		Dilution Factor: 1			
Silver	122	(50 - 150)	SW846 6010B	10/27-10/28/09	LM9ND1AT
		Dilution Factor: 1			
Mercury	106	(50 - 150)	SW846 7470A	10/27/09	LM9ND1AK
		Dilution Factor: 1			
LCS Lot-Sample#: A9J270000-019 **Prep Batch #...:** 9300019					
Arsenic	108	(50 - 150)	SW846 6010B	10/27-10/28/09	LNAVM1AP
		Dilution Factor: 1			
Barium	106	(50 - 150)	SW846 6010B	10/27-10/28/09	LNAVM1AQ
		Dilution Factor: 1			
Cadmium	107	(50 - 150)	SW846 6010B	10/27-10/28/09	LNAVM1AR
		Dilution Factor: 1			
Chromium	103	(50 - 150)	SW846 6010B	10/27-10/28/09	LNAVM1AT
		Dilution Factor: 1			
Lead	109	(50 - 150)	SW846 6010B	10/27-10/28/09	LNAVM1AU
		Dilution Factor: 1			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A9J260134 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	113	(50 - 150)	SW846 6010B	10/27-10/28/09	LNAVM1AV
		Dilution Factor: 1			
Silver	118	(50 - 150)	SW846 6010B	10/27-10/28/09	LNAVM1AW
		Dilution Factor: 1			
Mercury	116	(50 - 150)	SW846 7470A	10/27/09	LNAVM1AX
		Dilution Factor: 1			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: A9J260134 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9J260000-014 **Prep Batch #...:** 9299014							
Arsenic	2.0	2.1	mg/L	104	SW846 6010B	10/27-10/28/09	LM9ND1AL
			Dilution Factor: 1				
Barium	2.0	2.1	mg/L	106	SW846 6010B	10/27-10/28/09	LM9ND1AM
			Dilution Factor: 1				
Cadmium	0.050	0.054	mg/L	108	SW846 6010B	10/27-10/28/09	LM9ND1AN
			Dilution Factor: 1				
Chromium	0.20	0.20	mg/L	101	SW846 6010B	10/27-10/28/09	LM9ND1AP
			Dilution Factor: 1				
Lead	0.50	0.53	mg/L	106	SW846 6010B	10/27-10/28/09	LM9ND1AQ
			Dilution Factor: 1				
Selenium	2.0	2.3	mg/L	113	SW846 6010B	10/27-10/28/09	LM9ND1AR
			Dilution Factor: 1				
Silver	0.050	0.061	mg/L	122	SW846 6010B	10/27-10/28/09	LM9ND1AT
			Dilution Factor: 1				
Mercury	0.0050	0.0053	mg/L	106	SW846 7470A	10/27/09	LM9ND1AK
			Dilution Factor: 1				
LCS Lot-Sample#: A9J270000-019 **Prep Batch #...:** 9300019							
Arsenic	2.0	2.2	mg/L	108	SW846 6010B	10/27-10/28/09	LNAVM1AP
			Dilution Factor: 1				
Barium	2.0	2.1	mg/L	106	SW846 6010B	10/27-10/28/09	LNAVM1AQ
			Dilution Factor: 1				
Cadmium	0.050	0.054	mg/L	107	SW846 6010B	10/27-10/28/09	LNAVM1AR
			Dilution Factor: 1				
Chromium	0.20	0.21	mg/L	103	SW846 6010B	10/27-10/28/09	LNAVM1AT
			Dilution Factor: 1				
Lead	0.50	0.54	mg/L	109	SW846 6010B	10/27-10/28/09	LNAVM1AU
			Dilution Factor: 1				

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: A9J260134 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	2.0	2.3	mg/L	113	SW846 6010B	10/27-10/28/09	LNAVM1AV
			Dilution Factor: 1				
Silver	0.050	0.059	mg/L	118	SW846 6010B	10/27-10/28/09	LNAVM1AW
			Dilution Factor: 1				
Mercury	0.0050	0.0058	mg/L	116	SW846 7470A	10/27/09	LNAVM1AX
			Dilution Factor: 1				

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A9J260134 **Matrix.....:** SOLID
Date Sampled...: 10/23/09 11:35 **Date Received..:** 10/24/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A9J240137-001 **Prep Batch #...:** 9299014							
Leach Date.....: 10/25/09 **Leach Batch #..:** P929802							
Arsenic	104	(50 - 150)			SW846 6010B	10/27-10/28/09	LM8WV1AN
	102	(50 - 150)	2.0	(0-20)	SW846 6010B	10/27-10/28/09	LM8WV1AP
		Dilution Factor: 5					
Barium	104	(50 - 150)			SW846 6010B	10/27-10/28/09	LM8WV1AQ
	103	(50 - 150)	1.3	(0-20)	SW846 6010B	10/27-10/28/09	LM8WV1AR
		Dilution Factor: 5					
Cadmium	108	(50 - 150)			SW846 6010B	10/27-10/28/09	LM8WV1AT
	106	(50 - 150)	2.2	(0-20)	SW846 6010B	10/27-10/28/09	LM8WV1AU
		Dilution Factor: 5					
Chromium	101	(50 - 150)			SW846 6010B	10/27-10/28/09	LM8WV1AV
	99	(50 - 150)	1.8	(0-20)	SW846 6010B	10/27-10/28/09	LM8WV1AW
		Dilution Factor: 5					
Lead	107	(50 - 150)			SW846 6010B	10/27-10/28/09	LM8WV1AX
	104	(50 - 150)	2.0	(0-20)	SW846 6010B	10/27-10/28/09	LM8WV1A0
		Dilution Factor: 5					
Selenium	111	(50 - 150)			SW846 6010B	10/27-10/28/09	LM8WV1A1
	109	(50 - 150)	1.6	(0-20)	SW846 6010B	10/27-10/28/09	LM8WV1A2
		Dilution Factor: 5					
Silver	111	(50 - 150)			SW846 6010B	10/27-10/28/09	LM8WV1A3
	108	(50 - 150)	2.0	(0-20)	SW846 6010B	10/27-10/28/09	LM8WV1A4
		Dilution Factor: 5					
Mercury	109	(50 - 150)			SW846 7470A	10/27/09	LM8WV1AL
	117	(50 - 150)	6.9	(0-20)	SW846 7470A	10/27/09	LM8WV1AM
		Dilution Factor: 1					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: A9J260134 **Matrix.....:** SOLID
Date Sampled...: 10/23/09 11:35 **Date Received..:** 10/24/09

MS Lot-Sample #: A9J240137-001 **Prep Batch #...:** 9299014
Leach Date.....: 10/25/09 **Leach Batch #..:** P929802

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Arsenic									
		5.0	5.2	mg/L	104		SW846 6010B	10/27-10/28/09	LM8WV
		5.0	5.1	mg/L	102	2.0	SW846 6010B	10/27-10/28/09	LM8WV1
			Dilution Factor: 5						
Barium									
		50.0	52.9	mg/L	104		SW846 6010B	10/27-10/28/09	LM8WV1
		50.0	52.2	mg/L	103	1.3	SW846 6010B	10/27-10/28/09	LM8WV
			Dilution Factor: 5						
Cadmium									
		1.0	1.1	mg/L	108		SW846 6010B	10/27-10/28/09	LM8WV
		1.0	1.1	mg/L	106	2.2	SW846 6010B	10/27-10/28/09	LM8WV1
			Dilution Factor: 5						
Chromium									
		5.0	5.0	mg/L	101		SW846 6010B	10/27-10/28/09	LM8WV1
		5.0	4.9	mg/L	99	1.8	SW846 6010B	10/27-10/28/09	LM8WV
			Dilution Factor: 5						
Lead									
		5.0	5.4	mg/L	107		SW846 6010B	10/27-10/28/09	LM8WV
		5.0	5.3	mg/L	104	2.0	SW846 6010B	10/27-10/28/09	LM8WV1
			Dilution Factor: 5						
Selenium									
		1.0	1.1	mg/L	111		SW846 6010B	10/27-10/28/09	LM8WV1
		1.0	1.1	mg/L	109	1.6	SW846 6010B	10/27-10/28/09	LM8WV
			Dilution Factor: 5						
Silver									
		1.0	1.1	mg/L	111		SW846 6010B	10/27-10/28/09	LM8WV
		1.0	1.1	mg/L	108	2.0	SW846 6010B	10/27-10/28/09	LM8WV1
			Dilution Factor: 5						
Mercury									
		0.0050	0.0055	mg/L	109		SW846 7470A	10/27/09	LM8WV1
		0.0050	0.0059	mg/L	117	6.9	SW846 7470A	10/27/09	LM8WV
			Dilution Factor: 1						

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A9C260134 **Matrix.....:** SOLID
Date Sampled...: 10/20/09 11:30 **Date Received..:** 10/22/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A9C220199-002 **Prep Batch #...:** 9300019							
Leach Date.....: 10/26/09 **Leach Batch #..:** P929905							
Arsenic	105	(50 - 150)			SW846 6010B	10/27-10/28/09	LM3TR1AU
	105	(50 - 150)	0.88	(0-20)	SW846 6010B	10/27-10/28/09	LM3TR1AV
		Dilution Factor: 5					
Barium	102	(50 - 150)			SW846 6010B	10/27-10/28/09	LM3TR1AW
	102	(50 - 150)	0.80	(0-20)	SW846 6010B	10/27-10/28/09	LM3TR1AX
		Dilution Factor: 5					
Cadmium	104	(50 - 150)			SW846 6010B	10/27-10/28/09	LM3TR1A0
	104	(50 - 150)	0.42	(0-20)	SW846 6010B	10/27-10/28/09	LM3TR1A1
		Dilution Factor: 5					
Chromium	101	(50 - 150)			SW846 6010B	10/27-10/28/09	LM3TR1A2
	100	(50 - 150)	0.38	(0-20)	SW846 6010B	10/27-10/28/09	LM3TR1A3
		Dilution Factor: 5					
Lead	108	(50 - 150)			SW846 6010B	10/27-10/28/09	LM3TR1A4
	108	(50 - 150)	0.49	(0-20)	SW846 6010B	10/27-10/28/09	LM3TR1A5
		Dilution Factor: 5					
Selenium	106	(50 - 150)			SW846 6010B	10/27-10/28/09	LM3TR1A6
	105	(50 - 150)	0.92	(0-20)	SW846 6010B	10/27-10/28/09	LM3TR1A7
		Dilution Factor: 5					
Silver	104	(50 - 150)			SW846 6010B	10/27-10/28/09	LM3TR1A8
	103	(50 - 150)	0.75	(0-20)	SW846 6010B	10/27-10/28/09	LM3TR1A9
		Dilution Factor: 5					
Mercury	114	(50 - 150)			SW846 7470A	10/27/09	LM3TR1CA
	113	(50 - 150)	1.1	(0-20)	SW846 7470A	10/27/09	LM3TR1CC
		Dilution Factor: 1					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: A9J260134 **Matrix.....:** SOLID
Date Sampled...: 10/20/09 11:30 **Date Received..:** 10/22/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A9J220199-002 **Prep Batch #...:** 9300019									
Leach Date.....: 10/26/09 **Leach Batch #..:** P929905									
Arsenic									
	ND	5.0	5.3	mg/L	105		SW846 6010B	10/27-10/28/09	LM3TR
	ND	5.0	5.2	mg/L	105	0.88	SW846 6010B	10/27-10/28/09	LM3TR1A
			Dilution Factor: 5						
Barium									
	0.37	50.0	51.5	mg/L	102		SW846 6010B	10/27-10/28/09	LM3TR1A
	0.37	50.0	51.1	mg/L	102	0.80	SW846 6010B	10/27-10/28/09	LM3TR
			Dilution Factor: 5						
Cadmium									
	0.0011	1.0	1.0	mg/L	104		SW846 6010B	10/27-10/28/09	LM3TR
	0.0011	1.0	1.0	mg/L	104	0.42	SW846 6010B	10/27-10/28/09	LM3TR1A
			Dilution Factor: 5						
Chromium									
	ND	5.0	5.0	mg/L	101		SW846 6010B	10/27-10/28/09	LM3TR1A
	ND	5.0	5.0	mg/L	100	0.38	SW846 6010B	10/27-10/28/09	LM3TR
			Dilution Factor: 5						
Lead									
	0.0022	5.0	5.4	mg/L	108		SW846 6010B	10/27-10/28/09	LM3TR
	0.0022	5.0	5.4	mg/L	108	0.49	SW846 6010B	10/27-10/28/09	LM3TR1A
			Dilution Factor: 5						
Selenium									
	0.0084	1.0	1.1	mg/L	106		SW846 6010B	10/27-10/28/09	LM3TR1A
	0.0084	1.0	1.1	mg/L	105	0.92	SW846 6010B	10/27-10/28/09	LM3TR[illegible]
			Dilution Factor: 5						
Silver									
	ND	1.0	1.0	mg/L	104		SW846 6010B	10/27-10/28/09	LM3TR
	ND	1.0	1.0	mg/L	103	0.75	SW846 6010B	10/27-10/28/09	LM3TR[illegible]
			Dilution Factor: 5						
Mercury									
	ND	0.0050	0.0057	mg/L	114		SW846 7470A	10/27/09	LM3TR1C
	ND	0.0050	0.0056	mg/L	113	1.1	SW846 7470A	10/27/09	LM3TR[illegible]
			Dilution Factor: 1						

NOTE(S):

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

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: CRA	Client Project Manager: STEVE VOSS	Site Contact:	Lab Contact:	COC No:
Address:	Telephone:	Telephone:	Telephone:	____ of ____ COCs
City/State/Zip: ST. PAUL, MN 55112	Email: svoss@craworld.com	Analysis Turnaround Time (in BUS days)		For lab use only
Phone: 651-639-0913		TAT if different from below _____		Walk-in client ☐
Project Name: Jefferson Yard	Method of Shipment/Carrier: Fed Ex overnight	☐ 3 weeks ☐ 2 weeks ☐ 1 week ☒ 2 days ☐ 1 day		Lab pickup ☐ Lab sampling ☐
Project Number: 054633	Shipping/Tracking No:			Job/SDG No:
PO#				

Analyses

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite (C) / Grab (G)	TOTAL PCBs	Total Pb + Cd	TCLP Pb + Cd	TCLP RCRA METALS							Sample Specific Notes / Special Instructions:
S-091023-PS-SB11-B1	10/23/09	1400			X								X			G	X	X	X								
TSCA SOIL	↓	1135			X								X			C				X							
TSCA STABILIZED	↓	1135			X								X			C				X							
NON-TSCA STABILIZED	↓	1415			X								X			C				X							
W-091023-PS-RB1	↓	1130		X					X				X			G	X	X									

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

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

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	CRA	10-23-09 / 1630			
			Received in Laboratory by: Lisa Mills	Test America	10-24-09 10:00

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TAL-0018 (1008)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** ~~A9J240579~~ 10/24/0
North Canton Facility A9J260134

Client CRA Project Jefferson Yard By: Lisa Mills (Signature)
Cooler Received on 10-24-09 Opened on 10-24-09
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ____
TestAmerica Cooler # L610 Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other ____

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 2 Quantity Unsalvageable ____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? ____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other cardboard
6. Cooler temperature upon receipt 5.4 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐ ____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☒ No ☐ NA ☒ LM 10-24-09
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM ____ Date ____ by ____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning ____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.
Sample(s) ____ were received in a broken container.
Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 031909-HNO_3; *Sulfuric Acid Lot#* 082509-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)? ____

Client ID	pH	Date	Initials
WJ-091023-DS-RB1	<2	10-24-09	LM

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler	Temp °C	Method	Coolant

Discrepancies Cont'd

TestAmerica

THE LEADER IN ENVIRONMENTAL

END OF REPORT

APPENDIX F

ANALYTICAL RESULTS OF CONFIRMATION SAMPLES

TestAmerica
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ANALYTICAL REPORT

Grant Anderson
Conestoga-Rovers & Associates, Inc.
PROJECT NO. 54633
JEFFERSON YARD

SAMPLE SUMMARY

WO #	LABORATORY ID	SAMPLE IDENTIFICATION	
LM8VT	A9J240135-001	S-091023-PS-S02-B1	
LM8V2	A9J240135-002	S-091023-PS-S02-B2	
LM8V4	A9J240135-003	S-091023-PS-S02-B3	
LM8V5	A9J240135-004	S-091023-PS-S02-S1	
LM8V6	A9J240135-005	S-091023-PS-S02-S2	
LM8V7	A9J240135-006	S-091023-PS-S02-S3	
LM8V9	A9J240135-007	S-091023-PS-S04-B1	
LM8WA	A9J240135-008	S-091023-PS-S04-B2	dup of S04-B1
LM8WC	A9J240135-009	S-091023-PS-JSS10-S1	
LM8WD	A9J240135-010	S-091023-PS-JSS10-B1	
LM8WF	A9J240135-011	S-091023-PS-SB11-B1	
LM8WG	A9J240135-012	W-091023-PS-RB1	Rinsate Blank

TESTAMERICA LABORATORIES, INC.

Denise D Heckler

Approved for release.
Denise D. Heckler
Project Manager
10/29/2009 9:52 AM

Denise D. Heckler
Project Manager
denise.heckler@testamericainc.com

October 29, 2009

TestAmerica Laboratories, Inc.
TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720
Tel (330)497-9396 Fax (330)497-0772 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

CASE NARRATIVE

A9J240135

The following report contains the analytical results for eleven solid samples and one water sample submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the Jefferson Yard Site, project number 54633. The samples were received October 24, 2009, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Grant Anderson, Pete Storlie and Steve Voss on October 28, 2009. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 5.4°C.

POLYCHLORINATED BIPHENYLS-8082

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch 9300037. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

Surrogate recoveries were outside criteria, since the method criterion is that one of two surrogate compounds must meet acceptance criteria, nor corrective action was required for samples S-091023-PS-S02-S3.

Samples contained degraded and/or possible mixtures of Aroclors. The best pattern match was used in identification and quantitation for the following sample(s): S-091023-PS-S02-B1, S-091023-PS-S02-S2, S-091023-PS-JSS10-S1 and S-091023-PS-JSS10-B1.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

Serial dilution of a sample in this lot indicates that physical and chemical interferences were present. Refer to the sample report pages for the affected analytes flagged with "E".

The QC batch associated with batch 9299012 for the Metals analysis is reported without an MS/MSD. The MS/MSD was performed on another client's sample within the batch. The MS/MSD result does not have immediate bearing on any samples except for the actual sample spiked. Ongoing evaluation and monitoring of the LCS provides long-term precision and accuracy for the method.

CASE NARRATIVE (continued)

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

EXECUTIVE SUMMARY - Detection Highlights

A9J240135

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-091023-PS-S02-B1 10/23/09 11:45 001				
Aroclor 1242	67	36	ug/kg	SW846 8082
Aroclor 1254	53	36	ug/kg	SW846 8082
Lead	18.8 E	0.33	mg/kg	SW846 6010B
Percent Solids	90.8	10.0	%	MCAWW 160.3 MOD
S-091023-PS-S02-B2 10/23/09 11:50 002				
Lead	24.3	0.31	mg/kg	SW846 6010B
Percent Solids	95.9	10.0	%	MCAWW 160.3 MOD
S-091023-PS-S02-B3 10/23/09 11:55 003				
Aroclor 1254	760	180	ug/kg	SW846 8082
Lead	48.0	0.32	mg/kg	SW846 6010B
Cadmium	0.20 B	0.54	mg/kg	SW846 6010B
Percent Solids	92.6	10.0	%	MCAWW 160.3 MOD
S-091023-PS-S02-S1 10/23/09 12:00 004				
Aroclor 1254	700	190	ug/kg	SW846 8082
Lead	14.3	0.34	mg/kg	SW846 6010B
Percent Solids	88.9	10.0	%	MCAWW 160.3 MOD
S-091023-PS-S02-S2 10/23/09 12:05 005				
Aroclor 1248	86	39	ug/kg	SW846 8082
Aroclor 1260	31 J	39	ug/kg	SW846 8082
Lead	23.5	0.35	mg/kg	SW846 6010B
Cadmium	0.071 B	0.58	mg/kg	SW846 6010B
Percent Solids	85.5	10.0	%	MCAWW 160.3 MOD
S-091023-PS-S02-S3 10/23/09 12:10 006				
Lead	35.4	0.37	mg/kg	SW846 6010B
Cadmium	0.13 B	0.62	mg/kg	SW846 6010B
Percent Solids	81.0	10.0	%	MCAWW 160.3 MOD
S-091023-PS-S04-B1 10/23/09 11:40 007				
Lead	5.0	0.32	mg/kg	SW846 6010B
Percent Solids	92.7	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A9J240135

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-091023-PS-S04-B2 10/23/09 11:40 008				
Lead	5.2	0.33	mg/kg	SW846 6010B
Percent Solids	92.2	10.0	%	MCAWW 160.3 MOD
S-091023-PS-JSS10-S1 10/23/09 13:30 009				
Aroclor 1254	230	40	ug/kg	SW846 8082
Lead	168	0.37	mg/kg	SW846 6010B
Cadmium	0.95	0.61	mg/kg	SW846 6010B
Percent Solids	81.5	10.0	%	MCAWW 160.3 MOD
S-091023-PS-JSS10-B1 10/23/09 13:30 010				
Aroclor 1254	44	38	ug/kg	SW846 8082
Lead	186	0.35	mg/kg	SW846 6010B
Cadmium	0.15 B	0.58	mg/kg	SW846 6010B
Percent Solids	86.8	10.0	%	MCAWW 160.3 MOD
S-091023-PS-SB11-B1 10/23/09 14:00 011				
Lead	629	0.36	mg/kg	SW846 6010B
Cadmium	0.31 B	0.60	mg/kg	SW846 6010B
Percent Solids	83.6	10.0	%	MCAWW 160.3 MOD

ANALYTICAL METHODS SUMMARY

A9J240135

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
PCBs by SW-846 8082	SW846 8082
Total Residue as Percent Solids	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

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

SAMPLE SUMMARY

A9J240135

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAM TI
LM8VT	001	S-091023-PS-S02-B1	10/23/09	11:
LM8V2	002	S-091023-PS-S02-B2	10/23/09	11
LM8V4	003	S-091023-PS-S02-B3	10/23/09	11
LM8V5	004	S-091023-PS-S02-S1	10/23/09	12:
LM8V6	005	S-091023-PS-S02-S2	10/23/09	12
LM8V7	006	S-091023-PS-S02-S3	10/23/09	12
LM8V9	007	S-091023-PS-S04-B1	10/23/09	11:
LM8WA	008	S-091023-PS-S04-B2	10/23/09	11:
LM8WC	009	S-091023-PS-JSS10-S1	10/23/09	13
LM8WD	010	S-091023-PS-JSS10-B1	10/23/09	13
LM8WF	011	S-091023-PS-SB11-B1	10/23/09	14:
LM8WG	012	W-091023-PS-RB1	10/23/09	11

NOTE(S):

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

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-B1

GC Semivolatiles

Lot-Sample #...: A9J240135-001 **Work Order #...:** LM8VT1AA **Matrix.....:** SO
Date Sampled...: 10/23/09 11:45 **Date Received..:** 10/24/09
Prep Date.....: 10/26/09 **Analysis Date..:** 10/28/09
Prep Batch #...: 9299154
Dilution Factor: 1
% Moisture.....: 9.2 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	36	ug/kg	23
Aroclor 1221	ND	36	ug/kg	18
Aroclor 1232	ND	36	ug/kg	15
Aroclor 1242	**67**	**36**	**ug/kg**	**14**
Aroclor 1248	ND	36	ug/kg	19
Aroclor 1254	**53**	**36**	**ug/kg**	**19**
Aroclor 1260	ND	36	ug/kg	19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	104	(10 - 196)
Decachlorobiphenyl	119	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-B1

TOTAL Metals

Lot-Sample #...: A9J240135-001 **Matrix.....:** SO
Date Sampled...: 10/23/09 11:45 **Date Received..:** 10/24/09
% Moisture.....: 9.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9299021						
Cadmium	ND	0.55	mg/kg	SW846 6010B	10/26-10/27/09	LM8VT1
		Dilution Factor: 1		MDL.....: 0.040		
Lead	**18.8 E**	**0.33**	**mg/kg**	**SW846 6010B**	**10/26-10/27/09**	**LM8VT1**
		Dilution Factor: 1		MDL.....: 0.21		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

E Matrix interference.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-B1

TCLP Metals

Lot-Sample #...: A9J240135-001 **Matrix.....:** SO
Date Sampled...: 10/23/09 11:45 **Date Received..:** 10/24/09
Leach Date.....: 10/25/09 **Leach Batch #..:** P929801

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9299013						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/27/09	LM8VT1AE
		Dilution Factor: 1		MDL.....: 0.00066		
Lead	ND	0.50	mg/L	SW846 6010B	10/27/09	LM8VT1AF
		Dilution Factor: 1		MDL.....: 0.0019		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-B1

General Chemistry

Lot-Sample #...: A9J240135-001 **Work Order #...:** LM8VT **Matrix.....:** SO
Date Sampled...: 10/23/09 11:45 **Date Received..:** 10/24/09
% Moisture.....: 9.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**90.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**10/27-10/28/09**	**930027**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-B2

GC Semivolatiles

Lot-Sample #...: A9J240135-002 **Work Order #...:** LM8V21AA **Matrix.....:** SO
Date Sampled...: 10/23/09 11:50 **Date Received..:** 10/24/09
Prep Date.....: 10/26/09 **Analysis Date..:** 10/28/09
Prep Batch #...: 9299154
Dilution Factor: 1
% Moisture.....: 4.1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	34	ug/kg	22
Aroclor 1221	ND	34	ug/kg	17
Aroclor 1232	ND	34	ug/kg	15
Aroclor 1242	ND	34	ug/kg	14
Aroclor 1248	ND	34	ug/kg	18
Aroclor 1254	ND	34	ug/kg	18
Aroclor 1260	ND	34	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	96	(10 - 196)
Decachlorobiphenyl	131	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-B2

TOTAL Metals

Lot-Sample #...: A9J240135-002 **Matrix.....:** SO
Date Sampled...: 10/23/09 11:50 **Date Received..:** 10/24/09
% Moisture.....: 4.1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9299021						
Cadmium	ND	0.52	mg/kg	SW846 6010B	10/26-10/27/09	LM8V21
		Dilution Factor: 1		MDL.....: 0.038		
Lead	**24.3**	**0.31**	**mg/kg**	**SW846 6010B**	**10/26-10/27/09**	**LM8V21**
		Dilution Factor: 1		MDL.....: 0.20		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-B2

TCLP Metals

Lot-Sample #...: A9J240135-002 **Matrix.....:** SO
Date Sampled...: 10/23/09 11:50 **Date Received..:** 10/24/09
Leach Date.....: 10/25/09 **Leach Batch #..:** P929801

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9299013						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/27-10/28/09	LM8V21AE
		Dilution Factor: 1		MDL.....: 0.00066		
Lead	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM8V21AF
		Dilution Factor: 1		MDL.....: 0.0019		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-B2

General Chemistry

Lot-Sample #...: A9J240135-002 **Work Order #...:** LM8V2 **Matrix.....:** SO
Date Sampled...: 10/23/09 11:50 **Date Received..:** 10/24/09
% Moisture.....: 4.1

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**95.9**	**10.0**	**%**	**MCAWW 160.3 MOD**	**10/27-10/28/09**	**930027**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-B3

GC Semivolatiles

Lot-Sample #...: A9J240135-003 **Work Order #...:** LM8V41AA **Matrix.....:** SO
Date Sampled...: 10/23/09 11:55 **Date Received..:** 10/24/09
Prep Date.....: 10/26/09 **Analysis Date..:** 10/28/09
Prep Batch #...: 9299154
Dilution Factor: 5
% Moisture.....: 7.4 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	180	ug/kg	110
Aroclor 1221	ND	180	ug/kg	86
Aroclor 1232	ND	180	ug/kg	76
Aroclor 1242	ND	180	ug/kg	70
Aroclor 1248	ND	180	ug/kg	92
Aroclor 1254	**760**	**180**	**ug/kg**	**92**
Aroclor 1260	ND	180	ug/kg	92

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	115 DIL	(10 - 196)
Decachlorobiphenyl	153 DIL	(10 - 199)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-B3

TOTAL Metals

Lot-Sample #...: A9J240135-003 **Matrix.....:** SO
Date Sampled...: 10/23/09 11:55 **Date Received..:** 10/24/09
% Moisture.....: 7.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9299021						
Cadmium	**0.20 B**	**0.54**	**mg/kg**	**SW846 6010B**	**10/26-10/27/09**	**LM8V41**
		Dilution Factor: 1		MDL.....: 0.039		
Lead	**48.0**	**0.32**	**mg/kg**	**SW846 6010B**	**10/26-10/27/09**	**LM8V41**
		Dilution Factor: 1		MDL.....: 0.21		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-B3

TCLP Metals

Lot-Sample #...: A9J240135-003 **Matrix.....:** SO
Date Sampled...: 10/23/09 11:55 **Date Received..:** 10/24/09
Leach Date.....: 10/25/09 **Leach Batch #..:** P929801

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9299013						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/27-10/28/09	LM8V41AE
		Dilution Factor: 1		MDL.....: 0.00066		
Lead	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM8V41AF
		Dilution Factor: 1		MDL.....: 0.0019		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-B3

General Chemistry

Lot-Sample #...: A9J240135-003 **Work Order #...:** LM8V4 **Matrix.....:** SO
Date Sampled...: 10/23/09 11:55 **Date Received..:** 10/24/09
% Moisture.....: 7.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**92.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**10/27-10/28/09**	**930027**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-S1

GC Semivolatiles

Lot-Sample #...: A9J240135-004 **Work Order #...:** LM8V51AA **Matrix.....:** SO
Date Sampled...: 10/23/09 12:00 **Date Received..:** 10/24/09
Prep Date.....: 10/26/09 **Analysis Date..:** 10/28/09
Prep Batch #...: 9299154
Dilution Factor: 5
% Moisture.....: 11 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	190	ug/kg	120
Aroclor 1221	ND	190	ug/kg	90
Aroclor 1232	ND	190	ug/kg	79
Aroclor 1242	ND	190	ug/kg	73
Aroclor 1248	ND	190	ug/kg	96
Aroclor 1254	**700**	**190**	**ug/kg**	**96**
Aroclor 1260	ND	190	ug/kg	96

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	114 DIL	(10 - 196)
Decachlorobiphenyl	137 DIL	(10 - 199)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-S1

TOTAL Metals

Lot-Sample #...: A9J240135-004 **Matrix.....:** SO
Date Sampled...: 10/23/09 12:00 **Date Received..:** 10/24/09
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9299021						
Cadmium	ND	0.56	mg/kg	SW846 6010B	10/26-10/27/09	LM8V51
		Dilution Factor: 1		MDL.....: 0.040		
Lead	**14.3**	**0.34**	**mg/kg**	**SW846 6010B**	**10/26-10/27/09**	**LM8V51**
		Dilution Factor: 1		MDL.....: 0.21		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-S1

TCLP Metals

Lot-Sample #...: A9J240135-004 **Matrix.....:** SO
Date Sampled...: 10/23/09 12:00 **Date Received..:** 10/24/09
Leach Date.....: 10/25/09 **Leach Batch #..:** P929801

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9299013						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/27-10/28/09	LM8V51AE
		Dilution Factor: 1		MDL.....: 0.00066		
Lead	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM8V51AF
		Dilution Factor: 1		MDL.....: 0.0019		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-S1

General Chemistry

Lot-Sample #...: A9J240135-004 **Work Order #...:** LM8V5 **Matrix.....:** SO
Date Sampled...: 10/23/09 12:00 **Date Received..:** 10/24/09
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**88.9**	**10.0**	**%**	**MCAWW 160.3 MOD**	**10/27-10/28/09**	**930027**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-S2

GC Semivolatiles

Lot-Sample #...: A9J240135-005 **Work Order #...:** LM8V61AA **Matrix.....:** SO
Date Sampled...: 10/23/09 12:05 **Date Received..:** 10/24/09
Prep Date.....: 10/26/09 **Analysis Date..:** 10/28/09
Prep Batch #...: 9299154
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	39	ug/kg	25
Aroclor 1221	ND	39	ug/kg	19
Aroclor 1232	ND	39	ug/kg	16
Aroclor 1242	ND	39	ug/kg	15
Aroclor 1248	**86**	**39**	**ug/kg**	**20**
Aroclor 1254	ND	39	ug/kg	20
Aroclor 1260	**31 J**	**39**	**ug/kg**	**20**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	118	(10 - 196)
Decachlorobiphenyl	132	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-S2

TOTAL Metals

Lot-Sample #...: A9J240135-005 **Matrix.....:** SO
Date Sampled...: 10/23/09 12:05 **Date Received..:** 10/24/09
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9299021						
Cadmium	**0.071 B**	**0.58**	**mg/kg**	**SW846 6010B**	**10/26-10/27/09**	**LM8V61**
		Dilution Factor: 1		MDL.....: 0.042		
Lead	**23.5**	**0.35**	**mg/kg**	**SW846 6010B**	**10/26-10/27/09**	**LM8V61**
		Dilution Factor: 1		MDL.....: 0.22		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-S2

TCLP Metals

Lot-Sample #...: A9J240135-005 **Matrix.....:** SO
Date Sampled...: 10/23/09 12:05 **Date Received..:** 10/24/09
Leach Date.....: 10/25/09 **Leach Batch #..:** P929801

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9299013						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/27-10/28/09	LM8V61AE
		Dilution Factor: 1		MDL.....: 0.00066		
Lead	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM8V61AF
		Dilution Factor: 1		MDL.....: 0.0019		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-S2

General Chemistry

Lot-Sample #...: A9J240135-005 **Work Order #...:** LM8V6 **Matrix.....:** SO
Date Sampled...: 10/23/09 12:05 **Date Received..:** 10/24/09
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**85.5**	**10.0**	**%**	**MCAWW 160.3 MOD**	**10/27-10/28/09**	**930029**
		Dilution Factor: 1		MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-S3

GC Semivolatiles

Lot-Sample #...: A9J240135-006 **Work Order #...:** LM8V71AA **Matrix.....:** SO
Date Sampled...: 10/23/09 12:10 **Date Received..:** 10/24/09
Prep Date.....: 10/26/09 **Analysis Date..:** 10/28/09
Prep Batch #...: 9299154
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	41	ug/kg	26
Aroclor 1221	ND	41	ug/kg	20
Aroclor 1232	ND	41	ug/kg	17
Aroclor 1242	ND	41	ug/kg	16
Aroclor 1248	ND	41	ug/kg	21
Aroclor 1254	ND	41	ug/kg	21
Aroclor 1260	ND	41	ug/kg	21

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	90	(10 - 196)
Decachlorobiphenyl	4180 *	(10 - 199)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-S3

TOTAL Metals

Lot-Sample #...: A9J240135-006 **Matrix.....:** SO
Date Sampled...: 10/23/09 12:10 **Date Received..:** 10/24/09
% Moisture.....: 19

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9299021						
Cadmium	**0.13 B**	**0.62**	**mg/kg**	**SW846 6010B**	**10/26-10/27/09**	**LM8V71**
		Dilution Factor: 1		MDL.....: 0.044		
Lead	**35.4**	**0.37**	**mg/kg**	**SW846 6010B**	**10/26-10/27/09**	**LM8V71**
		Dilution Factor: 1		MDL.....: 0.23		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-S3

TCLP Metals

Lot-Sample #...: A9J240135-006 **Matrix.....:** SO
Date Sampled...: 10/23/09 12:10 **Date Received..:** 10/24/09
Leach Date.....: 10/25/09 **Leach Batch #..:** P929801

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9299013						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/27-10/28/09	LM8V71AE
		Dilution Factor: 1		MDL.....: 0.00066		
Lead	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM8V71AF
		Dilution Factor: 1		MDL.....: 0.0019		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S02-S3

General Chemistry

Lot-Sample #...: A9J240135-006 **Work Order #...:** LM8V7 **Matrix.....:** SO
Date Sampled...: 10/23/09 12:10 **Date Received..:** 10/24/09
% Moisture.....: 19

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**81.0**	**10.0**	**%**	**MCAWW 160.3 MOD**	**10/27-10/28/09**	**930029?**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S04-B1

GC Semivolatiles

Lot-Sample #...: A9J240135-007 **Work Order #...:** LM8V91AA **Matrix.....:** SO
Date Sampled...: 10/23/09 11:40 **Date Received..:** 10/24/09
Prep Date.....: 10/26/09 **Analysis Date..:** 10/28/09
Prep Batch #...: 9299154
Dilution Factor: 1
% Moisture.....: 7.4 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	36	ug/kg	23
Aroclor 1221	ND	36	ug/kg	17
Aroclor 1232	ND	36	ug/kg	15
Aroclor 1242	ND	36	ug/kg	14
Aroclor 1248	ND	36	ug/kg	18
Aroclor 1254	ND	36	ug/kg	18
Aroclor 1260	ND	36	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	90	(10 - 196)
Decachlorobiphenyl	96	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S04-B1

TOTAL Metals

Lot-Sample #...: A9J240135-007 **Matrix.....:** SO
Date Sampled...: 10/23/09 11:40 **Date Received..:** 10/24/09
% Moisture.....: 7.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9299021						
Cadmium	ND	0.54	mg/kg	SW846 6010B	10/26-10/27/09	LM8V91
		Dilution Factor: 1		MDL.....: 0.039		
Lead	**5.0**	**0.32**	**mg/kg**	**SW846 6010B**	**10/26-10/27/09**	**LM8V91**
		Dilution Factor: 1		MDL.....: 0.21		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S04-B1

TCLP Metals

Lot-Sample #...: A9J240135-007 **Matrix.....:** SO
Date Sampled...: 10/23/09 11:40 **Date Received..:** 10/24/09
Leach Date.....: 10/25/09 **Leach Batch #..:** P929801

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9299013						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/27-10/28/09	LM8V91AL
		Dilution Factor: 1		MDL.....: 0.00066		
Lead	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM8V91AP
		Dilution Factor: 1		MDL.....: 0.0019		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S04-B1

General Chemistry

Lot-Sample #...: A9J240135-007 **Work Order #...:** LM8V9 **Matrix.....:** SO
Date Sampled...: 10/23/09 11:40 **Date Received..:** 10/24/09
% Moisture.....: 7.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**92.7**	**10.0**	**%**	**MCAWW 160.3 MOD**	**10/27-10/28/09**	**930029C**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

dup of S04-B1

Client Sample ID: S-091023-PS-S04-B2

GC Semivolatiles

Lot-Sample #...: A9J240135-008 **Work Order #...:** LM8WA1AA **Matrix.....:** SO
Date Sampled...: 10/23/09 11:40 **Date Received..:** 10/24/09
Prep Date.....: 10/26/09 **Analysis Date..:** 10/28/09
Prep Batch #...: 9299154
Dilution Factor: 1
% Moisture.....: 7.8 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	36	ug/kg	23
Aroclor 1221	ND	36	ug/kg	17
Aroclor 1232	ND	36	ug/kg	15
Aroclor 1242	ND	36	ug/kg	14
Aroclor 1248	ND	36	ug/kg	18
Aroclor 1254	ND	36	ug/kg	18
Aroclor 1260	ND	36	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	80	(10 - 196)
Decachlorobiphenyl	105	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S04-B2

TOTAL Metals

Lot-Sample #...: A9J240135-008 **Matrix.....:** SO
Date Sampled...: 10/23/09 11:40 **Date Received..:** 10/24/09
% Moisture.....: 7.8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9299021						
Cadmium	ND	0.54	mg/kg	SW846 6010B	10/26-10/27/09	LM8WA1
		Dilution Factor: 1		MDL.....: 0.039		
Lead	**5.2**	**0.33**	**mg/kg**	**SW846 6010B**	**10/26-10/27/09**	**LM8WA1**
		Dilution Factor: 1		MDL.....: 0.21		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: *S-091023-PS-S04-B2*

TCLP Metals

Lot-Sample #...: A9J240135-008 **Matrix.....:** SO
Date Sampled...: 10/23/09 11:40 **Date Received..:** 10/24/09
Leach Date.....: 10/25/09 **Leach Batch #..:** P929801

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9299013						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/27-10/28/09	LM8WA1AE
		Dilution Factor: 1		MDL.....: 0.00066		
Lead	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM8WA1AF
		Dilution Factor: 1		MDL.....: 0.0019		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-S04-B2

General Chemistry

Lot-Sample #...: A9J240135-008 **Work Order #...:** LM8WA **Matrix.....:** SO
Date Sampled...: 10/23/09 11:40 **Date Received..:** 10/24/09
% Moisture.....: 7.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**92.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**10/27-10/28/09**	**930029**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-JSS10-S1

GC Semivolatiles

Lot-Sample #...: A9J240135-009 **Work Order #...:** LM8WC1AA **Matrix.....:** SO
Date Sampled...: 10/23/09 13:30 **Date Received..:** 10/24/09
Prep Date.....: 10/26/09 **Analysis Date..:** 10/28/09
Prep Batch #...: 9299154
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	40	ug/kg	26
Aroclor 1221	ND	40	ug/kg	20
Aroclor 1232	ND	40	ug/kg	17
Aroclor 1242	ND	40	ug/kg	16
Aroclor 1248	ND	40	ug/kg	21
Aroclor 1254	**230**	**40**	**ug/kg**	**21**
Aroclor 1260	ND	40	ug/kg	21

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	75	(10 - 196)
Decachlorobiphenyl	54	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-JSS10-S1

TOTAL Metals

Lot-Sample #...: A9J240135-009 **Matrix.....:** SO
Date Sampled...: 10/23/09 13:30 **Date Received..:** 10/24/09
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9299021						
Cadmium	**0.95**	**0.61**	**mg/kg**	**SW846 6010B**	**10/26-10/27/09**	**LM8WC1**
		Dilution Factor: 1		MDL.....: 0.044		
Lead	**168**	**0.37**	**mg/kg**	**SW846 6010B**	**10/26-10/27/09**	**LM8WC1**
		Dilution Factor: 1		MDL.....: 0.23		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-JSS10-S1

TCLP Metals

Lot-Sample #...: A9J240135-009 **Matrix.....:** SO
Date Sampled...: 10/23/09 13:30 **Date Received..:** 10/24/09
Leach Date.....: 10/25/09 **Leach Batch #..:** P929801

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9299013						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/27-10/28/09	LM8WC1AE
		Dilution Factor: 1		MDL.....: 0.00066		
Lead	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM8WC1AF
		Dilution Factor: 1		MDL.....: 0.0019		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-JSS10-S1

General Chemistry

Lot-Sample #...: A9J240135-009 **Work Order #...:** LM8WC **Matrix.....:** SO
Date Sampled...: 10/23/09 13:30 **Date Received..:** 10/24/09
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**81.5**	**10.0**	**%**	**MCAWW 160.3 MOD**	**10/27-10/28/09**	**9300290**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-JSS10-B1

GC Semivolatiles

Lot-Sample #...: A9J240135-010 **Work Order #...:** LM8WD1AA **Matrix.....:** SO
Date Sampled...: 10/23/09 13:30 **Date Received..:** 10/24/09
Prep Date.....: 10/26/09 **Analysis Date..:** 10/28/09
Prep Batch #...: 9299154
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	38	ug/kg	24
Aroclor 1221	ND	38	ug/kg	18
Aroclor 1232	ND	38	ug/kg	16
Aroclor 1242	ND	38	ug/kg	15
Aroclor 1248	ND	38	ug/kg	20
Aroclor 1254	**44**	**38**	**ug/kg**	**20**
Aroclor 1260	ND	38	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	60	(10 - 196)
Decachlorobiphenyl	44	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-JSS10-B1

TOTAL Metals

Lot-Sample #...: A9J240135-010 **Matrix.....:** SO
Date Sampled...: 10/23/09 13:30 **Date Received..:** 10/24/09
% Moisture.....: 13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9299021						
Cadmium	**0.15 B**	**0.58**	**mg/kg**	**SW846 6010B**	**10/26-10/27/09**	**LM8WD1**
		Dilution Factor: 1		MDL.....: 0.041		
Lead	**186**	**0.35**	**mg/kg**	**SW846 6010B**	**10/26-10/27/09**	**LM8WD1**
		Dilution Factor: 1		MDL.....: 0.22		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-JSS10-B1

TCLP Metals

Lot-Sample #...: A9J240135-010 **Matrix.....:** SO
Date Sampled...: 10/23/09 13:30 **Date Received..:** 10/24/09
Leach Date.....: 10/25/09 **Leach Batch #..:** P929801

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9299013						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/27-10/28/09	LM8WD1AE
		Dilution Factor: 1		MDL.....: 0.00066		
Lead	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM8WD1AF
		Dilution Factor: 1		MDL.....: 0.0019		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-JSS10-B1

General Chemistry

Lot-Sample #...: A9J240135-010 **Work Order #...:** LM8WD **Matrix.....:** SO
Date Sampled...: 10/23/09 13:30 **Date Received..:** 10/24/09
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**86.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**10/27-10/28/09**	**930029**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-SB11-B1

GC Semivolatiles

Lot-Sample #...: A9J240135-011 **Work Order #...:** LM8WF1AA **Matrix.....:** SO
Date Sampled...: 10/23/09 14:00 **Date Received..:** 10/24/09
Prep Date.....: 10/26/09 **Analysis Date..:** 10/28/09
Prep Batch #...: 9299154
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	39	ug/kg	25
Aroclor 1221	ND	39	ug/kg	19
Aroclor 1232	ND	39	ug/kg	17
Aroclor 1242	ND	39	ug/kg	16
Aroclor 1248	ND	39	ug/kg	20
Aroclor 1254	ND	39	ug/kg	20
Aroclor 1260	ND	39	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	78	(10 - 196)
Decachlorobiphenyl	63	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-SB11-B1

TOTAL Metals

Lot-Sample #...: A9J240135-011 **Matrix.....:** SO
Date Sampled...: 10/23/09 14:00 **Date Received..:** 10/24/09
% Moisture.....: 16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9299021						
Cadmium	**0.31 B**	**0.60**	**mg/kg**	**SW846 6010B**	**10/26-10/27/09**	**LM8WF1**
		Dilution Factor: 1		MDL.....: 0.043		
Lead	**629**	**0.36**	**mg/kg**	**SW846 6010B**	**10/26-10/27/09**	**LM8WF1**
		Dilution Factor: 1		MDL.....: 0.23		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-SB11-B1

TCLP Metals

Lot-Sample #...: A9J240135-011 Matrix.....: SO
Date Sampled...: 10/23/09 14:00 Date Received..: 10/24/09
Leach Date.....: 10/25/09 Leach Batch #..: P929801

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9299013						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/27-10/28/09	LM8WF1AE
		Dilution Factor: 1		MDL.....: 0.00066		
Lead	ND	0.50	mg/L	SW846 6010B	10/27-10/28/09	LM8WF1AF
		Dilution Factor: 1		MDL.....: 0.0019		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091023-PS-SB11-B1

General Chemistry

Lot-Sample #...: A9J240135-011 **Work Order #...:** LM8WF **Matrix.....:** SO
Date Sampled...: 10/23/09 14:00 **Date Received..:** 10/24/09
% Moisture.....: 16

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**83.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**10/27-10/28/09**	**930029**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

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Client Sample ID: W-091023-PS-RB1

GC Semivolatiles

Lot-Sample #...: A9J240135-012 **Work Order #...:** LM8WG1AA **Matrix.....:** WQ
Date Sampled...: 10/23/09 11:30 **Date Received..:** 10/24/09
Prep Date.....: 10/27/09 **Analysis Date..:** 10/28/09
Prep Batch #...: 9300037
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.17
Aroclor 1221	ND	1.0	ug/L	0.13
Aroclor 1232	ND	1.0	ug/L	0.16
Aroclor 1242	ND	1.0	ug/L	0.22
Aroclor 1248	ND	1.0	ug/L	0.10
Aroclor 1254	ND	1.0	ug/L	0.16
Aroclor 1260	ND	1.0	ug/L	0.17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	100	(27 - 130)
Decachlorobiphenyl	63	(10 - 127)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: W-091023-PS-RB1

TOTAL Metals

Lot-Sample #...: A9J240135-012 **Matrix.....:** WQ
Date Sampled...: 10/23/09 11:30 **Date Received..:** 10/24/09

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9299012						
Cadmium	ND	5.0	ug/L	SW846 6010B	10/26-10/28/09	LM8WG17
		Dilution Factor: 1		MDL.....: 0.66		
Lead	ND	3.0	ug/L	SW846 6010B	10/26-10/28/09	LM8WG1A
		Dilution Factor: 1		MDL.....: 1.9		

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QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A9J240135 **Work Order #...:** LM9V91AA **Matrix.....:** SOLID
MB Lot-Sample #: A9J260000-154

Prep Date.....: 10/26/09
Analysis Date..: 10/28/09 **Prep Batch #...:** 9299154
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	85	(10 - 196)
Decachlorobiphenyl	114	(10 - 199)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A9J240135 **Work Order #...:** LNAWK1AA **Matrix.....:** WATER
MB Lot-Sample #: A9J270000-037

Prep Date.....: 10/27/09
Analysis Date..: 10/28/09 **Prep Batch #...:** 9300037
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	1.0	ug/L	SW846 8082
Aroclor 1221	ND	1.0	ug/L	SW846 8082
Aroclor 1232	ND	1.0	ug/L	SW846 8082
Aroclor 1242	ND	1.0	ug/L	SW846 8082
Aroclor 1248	ND	1.0	ug/L	SW846 8082
Aroclor 1254	ND	1.0	ug/L	SW846 8082
Aroclor 1260	ND	1.0	ug/L	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	94	(27 - 130)
Decachlorobiphenyl	93	(10 - 127)

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A9J240135 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A9J260000-012 **Prep Batch #...:** 9299012						
Cadmium	ND	5.0	ug/L	SW846 6010B	10/26-10/27/09	LM9M81
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	10/26-10/27/09	LM9M81
		Dilution Factor: 1				

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A9J240135 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A9J260000-021 **Prep Batch #...:** 9299021						
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/26-10/27/09	LM9NV1AA
		Dilution Factor: 1				
Lead	ND	0.30	mg/kg	SW846 6010B	10/26-10/27/09	LM9NV1AC
		Dilution Factor: 1				

NOTE(S):

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

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: A9J240135 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A9J250000-022 **Prep Batch #...:** 9299013						
Leach Date.....: 10/25/09 **Leach Batch #..:** P929801						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/27/09	LM9MM1A
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010B	10/27/09	LM9MM1A
		Dilution Factor: 1				

NOTE(S):

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

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: A9J240135 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A9J260000-013 **Prep Batch #...:** 9299013						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/27/09	LM9NA1AA
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010B	10/27/09	LM9NA1AC
		Dilution Factor: 1				

NOTE(S):

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A9J240135 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #:	LNCCF1AA	MB Lot-Sample #:	A9J270000-273	
	ND	10.0	%	MCAWW 160.3 MOD	10/27-10/28/09	930027
		Dilution Factor: 1				
Percent Solids		Work Order #:	LNCDJ1AA	MB Lot-Sample #:	A9J270000-290	
	ND	10.0	%	MCAWW 160.3 MOD	10/27-10/28/09	930029
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9J240135 **Work Order #...:** LM9V91AC **Matrix.....:** SOLID
LCS Lot-Sample#: A9J260000-154
Prep Date.....: 10/26/09 **Analysis Date..:** 10/28/09
Prep Batch #...: 9299154
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**98**	**(34 - 127)**	**SW846 8082**
Aroclor 1260	**111**	**(32 - 141)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	96	(10 - 196)
Decachlorobiphenyl	141	(10 - 199)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9J240135 **Work Order #...:** LM9V91AC **Matrix.....:** SOLID
LCS Lot-Sample#: A9J260000-154
Prep Date.....: 10/26/09 **Analysis Date..:** 10/28/09
Prep Batch #...: 9299154
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	**330**	**330**	**ug/kg**	**98**	**SW846 8082**
Aroclor 1260	**330**	**370**	**ug/kg**	**111**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	96	(10 - 196)
Decachlorobiphenyl	141	(10 - 199)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9J240135 **Work Order #...:** LNAWK1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A9J270000-037 LNAWK1AD-LCSD
Prep Date.....: 10/27/09 **Analysis Date..:** 10/28/09
Prep Batch #...: 9300037
Dilution Factor: 2

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**101**	**(44 - 119)**			**SW846 8082**
	93	**(44 - 119)**	**9.0**	**(0-30)**	**SW846 8082**
Aroclor 1260	**92**	**(41 - 118)**			**SW846 8082**
	85	**(41 - 118)**	**7.0**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	101	(27 - 130)
	102	(27 - 130)
Decachlorobiphenyl	60	(10 - 127)
	52	(10 - 127)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9J240135 **Work Order #...:** LNAWK1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A9J270000-037 LNAWK1AD-LCSD
Prep Date.....: 10/27/09 **Analysis Date..:** 10/28/09
Prep Batch #...: 9300037
Dilution Factor: 2

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aroclor 1016	**10**	**10**	**ug/L**	**101**		**SW846 8082**
	10	**9.3**	**ug/L**	**93**	**9.0**	**SW846 8082**
Aroclor 1260	**10**	**9.2**	**ug/L**	**92**		**SW846 8082**
	10	**8.5**	**ug/L**	**85**	**7.0**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	101	(27 - 130)
	102	(27 - 130)
Decachlorobiphenyl	60	(10 - 127)
	52	(10 - 127)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A9J240135 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9J260000-012 **Prep Batch #...:** 9299012					
Lead	101	(80 - 120)	SW846 6010B	10/26-10/27/09	LM9M81DV
		Dilution Factor: 1			
Cadmium	99	(80 - 120)	SW846 6010B	10/26-10/27/09	LM9M81D0
		Dilution Factor: 1			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A9J240135 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9J260000-012 **Prep Batch #...:** 9299012							
Lead	500	503	ug/L	101	SW846 6010B	10/26-10/27/09	LM9M81DV
			Dilution Factor: 1				
Cadmium	50.0	49.4	ug/L	99	SW846 6010B	10/26-10/27/09	LM9M81D0
			Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A9J240135 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9J260000-021 **Prep Batch #...:** 9299021					
Cadmium	97	(80 - 120)	SW846 6010B	10/26-10/27/09	LM9NV1AD
		Dilution Factor: 1			
Lead	97	(80 - 120)	SW846 6010B	10/26-10/27/09	LM9NV1AE
		Dilution Factor: 1			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A9J240135 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9J260000-021 **Prep Batch #...:** 9299021							
Cadmium	5.0	4.8	mg/kg	97	SW846 6010B	10/26-10/27/09	LM9NV1AD
			Dilution Factor: 1				
Lead	50.0	48.4	mg/kg	97	SW846 6010B	10/26-10/27/09	LM9NV1AE
			Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A9J240135 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9J260000-013 **Prep Batch #...:** 9299013					
Cadmium	109	(50 - 150)	SW846 6010B	10/27/09	LM9NA1AD
		Dilution Factor: 1			
Lead	107	(50 - 150)	SW846 6010B	10/27/09	LM9NA1AE
		Dilution Factor: 1			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: A9J240135 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9J260000-013 **Prep Batch #...:** 9299013							
Cadmium	0.050	0.055	mg/L	109	SW846 6010B	10/27/09	LM9NA1AD
			Dilution Factor: 1				
Lead	0.50	0.53	mg/L	107	SW846 6010B	10/27/09	LM9NA1AE
			Dilution Factor: 1				

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9J240135 **Work Order #...:** LM8V91CH-MS **Matrix.....:** SO
MS Lot-Sample #: A9J240135-007 LM8V91CJ-MSD
Date Sampled...: 10/23/09 11:40 **Date Received..:** 10/24/09
Prep Date.....: 10/26/09 **Analysis Date..:** 10/28/09
Prep Batch #...: 9299154
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**87**	**(10 - 199)**			**SW846 8082**
	86	**(10 - 199)**	**1.3**	**(0-30)**	**SW846 8082**
Aroclor 1260	**92**	**(10 - 199)**			**SW846 8082**
	92	**(10 - 199)**	**0.65**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(10 - 196)
	83	(10 - 196)
Decachlorobiphenyl	95	(10 - 199)
	100	(10 - 199)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9J240135 **Work Order #...:** LM8V91CH-MS **Matrix.....:** SO
MS Lot-Sample #: A9J240135-007 LM8V91CJ-MSD
Date Sampled...: 10/23/09 11:40 **Date Received..:** 10/24/09
Prep Date.....: 10/26/09 **Analysis Date..:** 10/28/09
Prep Batch #...: 9299154
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aroclor 1016	**ND**	**360**	**310**	**ug/kg**	**87**		**SW846 8082**
	ND	**360**	**310**	**ug/kg**	**86**	**1.3**	**SW846 8082**
Aroclor 1260	**ND**	**360**	**330**	**ug/kg**	**92**		**SW846 8082**
	ND	**360**	**330**	**ug/kg**	**92**	**0.65**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(10 - 196)
	83	(10 - 196)
Decachlorobiphenyl	95	(10 - 199)
	100	(10 - 199)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A9J240135 **Matrix.....:** SO
Date Sampled...: 10/23/09 11:40 **Date Received..:** 10/24/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A9J240135-007 **Prep Batch #...:** 9299021							
Cadmium	85	(75 - 125)			SW846 6010B	10/26-10/27/09	LM8V91AF
	86	(75 - 125)	1.0	(0-20)	SW846 6010B	10/26-10/27/09	LM8V91AG
		Dilution Factor: 1					
Lead	87	(75 - 125)			SW846 6010B	10/26-10/27/09	LM8V91AJ
	89	(75 - 125)	2.7	(0-20)	SW846 6010B	10/26-10/27/09	LM8V91AK
		Dilution Factor: 1					

NOTE(S):

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

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A9J240135 **Matrix.....:** SO
Date Sampled...: 10/23/09 11:40 **Date Received..:** 10/24/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
MS Lot-Sample #: A9J240135-007 **Prep Batch #...:** 9299021									
Cadmium									
	ND	5.4	4.6	mg/kg	85		SW846 6010B	10/26-10/27/09	LM8V9
	ND	5.4	4.6	mg/kg	86	1.0	SW846 6010B	10/26-10/27/09	LM8V9
			Dilution Factor: 1						
Lead									
	5.0	54.0	51.8	mg/kg	87		SW846 6010B	10/26-10/27/09	LM8V91
	5.0	54.0	53.2	mg/kg	89	2.7	SW846 6010B	10/26-10/27/09	LM8V91
			Dilution Factor: 1						

NOTE(S):

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

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A9J240135 **Matrix.....:** SO
Date Sampled...: 10/23/09 11:40 **Date Received..:** 10/24/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A9J240135-007 **Prep Batch #...:** 9299013							
Leach Date.....: 10/25/09 **Leach Batch #..:** P929801							
Cadmium	104	(50 - 150)			SW846 6010B	10/27-10/28/09	LM8V91AM
	106	(50 - 150)	1.8	(0-20)	SW846 6010B	10/27-10/28/09	LM8V91AN
		Dilution Factor: 5					
Lead	102	(50 - 150)			SW846 6010B	10/27-10/28/09	LM8V91AQ
	104	(50 - 150)	1.8	(0-20)	SW846 6010B	10/27-10/28/09	LM8V91AR
		Dilution Factor: 5					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: A9J240135 **Matrix.....:** SO
Date Sampled...: 10/23/09 11:40 **Date Received..:** 10/24/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
MS Lot-Sample #: A9J240135-007 **Prep Batch #...:** 9299013									
Leach Date.....: 10/25/09 **Leach Batch #..:** P929801									
Cadmium									
	ND	1.0	1.0	mg/L	104		SW846 6010B	10/27-10/28/09	LM8V9
	ND	1.0	1.1	mg/L	106	1.8	SW846 6010B	10/27-10/28/09	LM8V91
			Dilution Factor: 5						
Lead									
	ND	5.0	5.1	mg/L	102		SW846 6010B	10/27-10/28/09	LM8V91
	ND	5.0	5.2	mg/L	104	1.8	SW846 6010B	10/27-10/28/09	LM8V9
			Dilution Factor: 5						

NOTE(S):

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

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A9J240135 **Work Order #...:** LM6P0-SMP LM6P0-DUP **Matrix.....:** SOLID

Date Sampled...: 10/22/09 11:25 **Date Received..:** 10/23/09

% Moisture.....: 13

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #:	A9J230184-007	
	87.4	88.3	%	1.1	(0-20)	MCAWW 160.3 MOD	10/27-10/28/09	9300273

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A9J240135 **Work Order #...:** LM6RG-SMP LM6RG-DUP **Matrix.....:** SOLID

Date Sampled...: 10/22/09 14:20 **Date Received..:** 10/23/09

% Moisture.....: 17

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Percent Solids						SD Lot-Sample #: A9J230184-011		
	82.7	74.0	%	11	(0-20)	MCAWW 160.3 MOD	10/27-10/28/09	93002

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A9J240135 **Work Order #...:** LM3XR-SMP LM3XR-DUP **Matrix.....:** SOLID

Date Sampled...: 10/21/09 09:45 **Date Received..:** 10/22/09

% Moisture.....: 9.0

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A9J220200-004		
	91.0	91.3	%	0.37	(0-20)	MCAWW 160.3 MOD	10/27-10/28/09	9300290

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A9J240135 **Work Order #...:** LM8V9-SMP LM8V9-DUP **Matrix.....:** SO

Date Sampled...: 10/23/09 11:40 **Date Received..:** 10/24/09

% Moisture.....: 7.4

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Percent Solids						SD Lot-Sample #: A9J240135-007		
	92.7	92.4	%	0.24	(0-20)	MCAWW 160.3 MOD	10/27-10/28/09	93002

Dilution Factor: 1

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: CRA	Client Project Manager: STEVE VOSS	Site Contact:	Lab Contact:	COC No:
Address:	Telephone:	Telephone:	Telephone:	____ of ____ COCs
City/State/Zip: ST. PAUL, MN 55112	Email: SVOSS@CRAWORLD.COM	Analysis Turnaround Time (in CALENDAR days)	Analyses	For lab use only
Phone: 651-639-0913		TAT if different from below _____		Walk-in client ☐
Project Name: Jefferson Yard	Method of Shipment/Carrier: Fed Ex overnight	☐ 3 weeks		Lab sicken ☐
Project Number: 054633	Shipping/Tracking No:	☐ 2 weeks		Lab sampling ☐
PO#		☐ 1 week		Job/SDG No:
		☒ 2 days		
		☐ 1 day		

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite (C) Grab (G)	Total PCBS	Total Pb+Cd	TCLP Pb	TCLP Cd							Sample Specific Notes / Special Instructions:
S-091023-PS-S02-B1	10/23/09	1145			X											G	X	X	X	X							
-S02-B2		1150			X												X	X	X	X							
-S02-B3		1155			X												X	X	X	X							
-S02-S1		1200			X												X	X	X	X							
-S02-S2		1205			X												X	X	X	X							
-S02-S3		1210			X												X	X	X	X							
-S04-B1		1140			X												X	X	X	X							MS/MSD
-S04-B2		1140			X												X	X	X	X							
-JSS10-S1		1330			X												X	X	X	X							
-JSS10-B1		1330			X												X	X	X	X							

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

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

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	CRA	10/23/09 1630			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			Lisa Mills	Test America	10:00 10-24-09

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TAL-0018 (1008)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: CRA	Client Project Manager: STEVE VOSS	Site Contact:	Lab Contact:	COC No:
Address:	Telephone:	Telephone:	Telephone:	____ of ____ COCs
City/State/Zip: ST. PAUL, MN 55112	Email: SVOSS@craworld.com	Analysis Turnaround Time (Calendar days)	Analyses	For lab use only
Phone: 651-639-0913		TAT if different from below _____		Walk-in client ☐
Project Name: Jefferson Yard	Method of Shipment/Carrier: Fed Ex overnight	☐ 3 weeks		Lab pickup ☐
Project Number: 054633	Shipping/Tracking No:	☐ 2 weeks		Lab sampling ☐
PO#		☐ 1 week		Job/SDG No.
		☒ 2 days		
		☐ 1 day		

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite (C) or Grab (G)	TOTAL PCBs	Total Pb + Cd	TCLP Pb + Cd	TCLP RCRA METALS							Sample Specific Notes / Special Instructions:
S-091023-PS-SB11-B1	10/23/09	1400			X								X			G	X	X	X								
TSCA SOIL	↓	1135			X								X			C				X							
TSCA STABILIZED		1135			X								X			C				X							
NON-TSCA STABILIZED		1415			X								X			C				X							
W-091023-PS-RB1		1130		X					X				X			G	X	X									

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

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

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	CRA	10-23-09 / 1630			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Lisa Mills	Company: Test America	Date/Time: 10:00 10-24-09

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TAL-0018 (1008)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** A9-3240135
North Canton Facility

Client CRA Project Jefferson Yard By: Lisa Mills
Cooler Received on 10-24-09 Opened on 10-24-09 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other
TestAmerica Cooler # L610 Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 2 Quantity Unsalvageable
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions?
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other cardboard
6. Cooler temperature upon receipt 5.4 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☒ No ☐ NA ☒ LM 10-24-09
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 031909-HNO_3; *Sulfuric Acid Lot#* 082509-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)?

Client ID	pH	Date	Initials
W-0910a3-PS-RB1	<2	10-24-09	LM

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler	Temp °C	Method	Coolant

Discrepancies Cont'd

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** A9J240135
North Canton Facility

Client CRA Project Jefferson Yard By: Lisa Mills
Cooler Received on 10-24-09 Opened on 10-24-09 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____
TestAmerica Cooler # LeID Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 2 Quantity Unsalvageable _____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other cardboard
6. Cooler temperature upon receipt 5.4 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐ _____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☒ No ☐ NA ☒ LM 10-24-09
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

_____

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 031909-HNO_3; *Sulfuric Acid Lot#* 082509-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials
WJ-091023-PS-RB1	<2	10-24-09	LM

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler	Temp °C	Method	Coolant

Discrepancies Cont'd

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Grant Anderson
Conestoga-Rovers & Associates, Inc.
PROJECT NO. 54633
Jefferson Yard

SAMPLE SUMMARY

WO #	LABORATORY ID	SAMPLE IDENTIFICATION	
LNDX2	A9J280123-001	S-091027-PS-JSS7-B1	
LNDX7	A9J280123-002	S-091027-PS-JSS8-B1	
LNDX8	A9J280123-003	S-091027-PS-JSS8-B2	
LNDX9	A9J280123-004	S-091027-PS-JSS9-S1	
LND0A	A9J280123-005	S-091027-PS-JSS9-S2	
LND0C	A9J280123-006	S-091027-PS-JSS9-S3	
LND0D	A9J280123-007	S-091027-PS-JSS9-B1	
LND0E	A9J280123-008	S-091027-PS-JSS9-B2	
LND0F	A9J280123-009	S-091027-PS-JSS9-B3	dup of JSS9-B2
LND0G	A9J280123-010	S-091027-PS-JB1-B1	
LND0H	A9J280123-011	W-091027-PS-RB2	

TESTAMERICA LABORATORIES, INC.

Denise D Heckler

Approved for release.
Denise D Heckler
Project Manager
11/4/2009 2:10 PM

Denise D. Heckler
Project Manager
denise.heckler@testamericainc.com

November 04, 2009

CASE NARRATIVE

A9J280123

The following report contains the analytical results for ten solid samples and one water sample submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the Jefferson Yard Site, project number 54633. The samples were received October 28, 2009, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 3.6°C.

POLYCHLORINATED BIPHENYLS-8082

The matrix spike/matrix spike duplicate(s) for batch(es) 9301359 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The QC batch associated with batch 9302012 for the Metals analysis is reported without an MS/MSD. The MS/MSD was performed on another client's sample within the batch. The MS/MSD result does not have immediate bearing on any samples except for the actual sample spiked. Ongoing evaluation and monitoring of the LCS provides long-term precision and accuracy for the method.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

EXECUTIVE SUMMARY - Detection Highlights

A9J280123

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-091027-PS-JSS7-B1 10/27/09 13:37 001				
Lead	5.5	0.32	mg/kg	SW846 6010B
Cadmium	0.18 B	0.53	mg/kg	SW846 6010B
Percent Solids	93.7	10.0	%	MCAWW 160.3 MOD
S-091027-PS-JSS8-B1 10/27/09 13:42 002				
Lead	4.8	0.32	mg/kg	SW846 6010B
Cadmium	0.16 B	0.54	mg/kg	SW846 6010B
Percent Solids	93.2	10.0	%	MCAWW 160.3 MOD
S-091027-PS-JSS8-B2 10/27/09 13:43 003				
Aroclor 1248	2200	390	ug/kg	SW846 8082
Aroclor 1260	430	390	ug/kg	SW846 8082
Lead	25.6	0.35	mg/kg	SW846 6010B
Cadmium	1.0	0.59	mg/kg	SW846 6010B
Percent Solids	85.4	10.0	%	MCAWW 160.3 MOD
S-091027-PS-JSS9-S1 10/27/09 14:00 004				
Lead	20.8	0.36	mg/kg	SW846 6010B
Cadmium	1.9	0.60	mg/kg	SW846 6010B
Percent Solids	83.1	10.0	%	MCAWW 160.3 MOD
S-091027-PS-JSS9-S2 10/27/09 14:05 005				
Aroclor 1242	130	36	ug/kg	SW846 8082
Aroclor 1254	90	36	ug/kg	SW846 8082
Lead - TCLP	0.69	0.50	mg/L	SW846 6010B
Lead	464	0.33	mg/kg	SW846 6010B
Cadmium	5.6	0.55	mg/kg	SW846 6010B
Percent Solids	91.3	10.0	%	MCAWW 160.3 MOD
S-091027-PS-JSS9-S3 10/27/09 14:06 006				
Aroclor 1260	84	38	ug/kg	SW846 8082
Lead	281	0.34	mg/kg	SW846 6010B
Cadmium	2.2	0.57	mg/kg	SW846 6010B
Percent Solids	88.0	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A9J280123

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-091027-PS-JSS9-B1 10/27/09 14:08 007				
Lead	12.8	0.34	mg/kg	SW846 6010B
Cadmium	0.096 B	0.57	mg/kg	SW846 6010B
Percent Solids	87.3	10.0	%	MCAWW 160.3 MOD
S-091027-PS-JSS9-B2 10/27/09 14:20 008				
Aroclor 1242	250	38	ug/kg	SW846 8082
Aroclor 1254	210	38	ug/kg	SW846 8082
Lead	343	1.7	mg/kg	SW846 6010B
Cadmium	1.1	0.57	mg/kg	SW846 6010B
Percent Solids	87.7	10.0	%	MCAWW 160.3 MOD
S-091027-PS-JSS9-B3 10/27/09 14:20 009				
Aroclor 1242	280	37	ug/kg	SW846 8082
Aroclor 1254	180	37	ug/kg	SW846 8082
Lead	628	0.34	mg/kg	SW846 6010B
Cadmium	2.4	0.56	mg/kg	SW846 6010B
Percent Solids	89.3	10.0	%	MCAWW 160.3 MOD
S-091027-PS-JB1-B1 10/27/09 14:15 010				
Lead	3.3	0.32	mg/kg	SW846 6010B
Cadmium	0.059 B	0.53	mg/kg	SW846 6010B
Percent Solids	93.6	10.0	%	MCAWW 160.3 MOD

ANALYTICAL METHODS SUMMARY

A9J280123

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
PCBs by SW-846 8082	SW846 8082
Total Residue as Percent Solids	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

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

SAMPLE SUMMARY

A9J280123

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LNDX2	001	S-091027-PS-JSS7-B1	10/27/09	13:37
LNDX7	002	S-091027-PS-JSS8-B1	10/27/09	13:42
LNDX8	003	S-091027-PS-JSS8-B2	10/27/09	13:43
LNDX9	004	S-091027-PS-JSS9-S1	10/27/09	14:00
LND0A	005	S-091027-PS-JSS9-S2	10/27/09	14:05
LND0C	006	S-091027-PS-JSS9-S3	10/27/09	14:06
LND0D	007	S-091027-PS-JSS9-B1	10/27/09	14:08
LND0E	008	S-091027-PS-JSS9-B2	10/27/09	14:20
LND0F	009	S-091027-PS-JSS9-B3	10/27/09	14:20
LND0G	010	S-091027-PS-JB1-B1	10/27/09	14:15
LND0H	011	W-091027-PS-RB2	10/27/09	13:00

NOTE(S):

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

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS7-B1

GC Semivolatiles

Lot-Sample #...: A9J280123-001 **Work Order #...:** LNDX21AA **Matrix.....:** SO
Date Sampled...: 10/27/09 13:37 **Date Received..:** 10/28/09
Prep Date.....: 10/28/09 **Analysis Date..:** 10/29/09
Prep Batch #...: 9301359
Dilution Factor: 1
% Moisture.....: 6.3 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	35	ug/kg	22
Aroclor 1221	ND	35	ug/kg	17
Aroclor 1232	ND	35	ug/kg	15
Aroclor 1242	ND	35	ug/kg	14
Aroclor 1248	ND	35	ug/kg	18
Aroclor 1254	ND	35	ug/kg	18
Aroclor 1260	ND	35	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	60	(10 - 196)
Decachlorobiphenyl	79	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS7-B1

TOTAL Metals

Lot-Sample #...: A9J280123-001 **Matrix.....:** SO
Date Sampled...: 10/27/09 13:37 **Date Received..:** 10/28/09
% Moisture.....: 6.3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9302031						
Cadmium	**0.18 B**	**0.53**	**mg/kg**	**SW846 6010B**	**10/29-10/30/09**	**LNDX21AC**
		Dilution Factor: 1		MDL.....: 0.038		
Lead	**5.5**	**0.32**	**mg/kg**	**SW846 6010B**	**10/29-10/30/09**	**LNDX21AD**
		Dilution Factor: 1		MDL.....: 0.20		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS7-B1

TCLP Metals

Lot-Sample #...: A9J280123-001 **Matrix.....:** SO
Date Sampled...: 10/27/09 13:37 **Date Received..:** 10/28/09
Leach Date.....: 10/29/09 **Leach Batch #..:** P930204

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9303020						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LNDX21
		Dilution Factor: 1		MDL.....: 0.00066		
Lead	ND	0.50	mg/L	SW846 6010B	10/30-10/31/09	LNDX21
		Dilution Factor: 1		MDL.....: 0.0019		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS7-B1

General Chemistry

Lot-Sample #...: A9J280123-001 **Work Order #...:** LNDX2 **Matrix.....:** SO
Date Sampled...: 10/27/09 13:37 **Date Received..:** 10/28/09
% Moisture.....: 6.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**93.7**	**10.0**	**%**	**MCAWW 160.3 MOD**	**10/28-10/29/09**	**9301302**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS8-B1

GC Semivolatiles

Lot-Sample #...: A9J280123-002 **Work Order #...:** LNDX71AA **Matrix.....:** SO
Date Sampled...: 10/27/09 13:42 **Date Received..:** 10/28/09
Prep Date.....: 10/28/09 **Analysis Date..:** 10/29/09
Prep Batch #...: 9301359
Dilution Factor: 1
% Moisture.....: 6.8 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	35	ug/kg	23
Aroclor 1221	ND	35	ug/kg	17
Aroclor 1232	ND	35	ug/kg	15
Aroclor 1242	ND	35	ug/kg	14
Aroclor 1248	ND	35	ug/kg	18
Aroclor 1254	ND	35	ug/kg	18
Aroclor 1260	ND	35	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	60	(10 - 196)
Decachlorobiphenyl	90	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS8-B1

TOTAL Metals

Lot-Sample #...: A9J280123-002 Matrix.....: SO
Date Sampled...: 10/27/09 13:42 Date Received..: 10/28/09
% Moisture.....: 6.8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9302031						
Cadmium	0.16 B	0.54	mg/kg	SW846 6010B	10/29-10/30/09	LNDX71AC
		Dilution Factor: 1		MDL.....: 0.039		
Lead	4.8	0.32	mg/kg	SW846 6010B	10/29-10/30/09	LNDX71AD
		Dilution Factor: 1		MDL.....: 0.20		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS8-B1

TCLP Metals

Lot-Sample #...: A9J280123-002 **Matrix.....:** SO
Date Sampled...: 10/27/09 13:42 **Date Received..:** 10/28/09
Leach Date.....: 10/29/09 **Leach Batch #..:** P930204

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9303020						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LNDX71
		Dilution Factor: 1		MDL.....: 0.00066		
Lead	ND	0.50	mg/L	SW846 6010B	10/30-10/31/09	LNDX71
		Dilution Factor: 1		MDL.....: 0.0019		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS8-B1

General Chemistry

Lot-Sample #...: A9J280123-002 **Work Order #...:** LNDX7 **Matrix.....:** SO
Date Sampled...: 10/27/09 13:42 **Date Received..:** 10/28/09
% Moisture.....: 6.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	93.2	10.0	%	MCAWW 160.3 MOD	10/28-10/29/09	9301302

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS8-B2

GC Semivolatiles

Lot-Sample #...: A9J280123-003 **Work Order #...:** LNDX81AA **Matrix.....:** SO
Date Sampled...: 10/27/09 13:43 **Date Received..:** 10/28/09
Prep Date.....: 10/28/09 **Analysis Date..:** 10/29/09
Prep Batch #...: 9301359
Dilution Factor: 10
% Moisture.....: 15 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	390	ug/kg	250
Aroclor 1221	ND	390	ug/kg	190
Aroclor 1232	ND	390	ug/kg	160
Aroclor 1242	ND	390	ug/kg	150
Aroclor 1248	**2200**	**390**	**ug/kg**	**200**
Aroclor 1254	ND	390	ug/kg	200
Aroclor 1260	**430**	**390**	**ug/kg**	**200**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	79 DIL	(10 - 196)
Decachlorobiphenyl	113 DIL	(10 - 199)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS8-B2

TOTAL Metals

Lot-Sample #...: A9J280123-003 Matrix.....: SO
Date Sampled...: 10/27/09 13:43 Date Received..: 10/28/09
% Moisture.....: 15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9302031						
Cadmium	1.0	0.59	mg/kg	SW846 6010B	10/29-10/30/09	LNDX81AC
		Dilution Factor: 1		MDL.....: 0.042		
Lead	25.6	0.35	mg/kg	SW846 6010B	10/29-10/30/09	LNDX81AD
		Dilution Factor: 1		MDL.....: 0.22		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS8-B2

TCLP Metals

Lot-Sample #...: A9J280123-003 **Matrix.....:** SO
Date Sampled...: 10/27/09 13:43 **Date Received..:** 10/28/09
Leach Date.....: 10/29/09 **Leach Batch #..:** P930204

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9303020						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LNDX81
		Dilution Factor: 1		MDL.....: 0.00066		
Lead	ND	0.50	mg/L	SW846 6010B	10/30-10/31/09	LNDX81
		Dilution Factor: 1		MDL.....: 0.0019		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS8-B2

General Chemistry

Lot-Sample #...: A9J280123-003 **Work Order #...:** LNDX8 **Matrix.....:** SO
Date Sampled...: 10/27/09 13:43 **Date Received..:** 10/28/09
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**85.4**	**10.0**	**%**	**MCAWW 160.3 MOD**	**10/28-10/29/09**	**9301302**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-S1

GC Semivolatiles

Lot-Sample #...: A9J280123-004 **Work Order #...:** LNDX91AA **Matrix.....:** SO
Date Sampled...: 10/27/09 14:00 **Date Received..:** 10/28/09
Prep Date.....: 10/28/09 **Analysis Date..:** 10/29/09
Prep Batch #...: 9301359
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	40	ug/kg	25
Aroclor 1221	ND	40	ug/kg	19
Aroclor 1232	ND	40	ug/kg	17
Aroclor 1242	ND	40	ug/kg	16
Aroclor 1248	ND	40	ug/kg	20
Aroclor 1254	ND	40	ug/kg	20
Aroclor 1260	ND	40	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	57	(10 - 196)
Decachlorobiphenyl	59	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-S1

TOTAL Metals

Lot-Sample #...: A9J280123-004 Matrix.....: SO
Date Sampled...: 10/27/09 14:00 Date Received..: 10/28/09
% Moisture.....: 17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9302031						
Cadmium	1.9	0.60	mg/kg	SW846 6010B	10/29-10/30/09	LNDX91AC
		Dilution Factor: 1		MDL.....: 0.043		
Lead	20.8	0.36	mg/kg	SW846 6010B	10/29-10/30/09	LNDX91AD
		Dilution Factor: 1		MDL.....: 0.23		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-S1

TCLP Metals

Lot-Sample #...: A9J280123-004 **Matrix.....:** SO
Date Sampled...: 10/27/09 14:00 **Date Received..:** 10/28/09
Leach Date.....: 10/29/09 **Leach Batch #..:** P930204

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9303020						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LNDX91
		Dilution Factor: 1		MDL.....: 0.00066		
Lead	ND	0.50	mg/L	SW846 6010B	10/30-10/31/09	LNDX91
		Dilution Factor: 1		MDL.....: 0.0019		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-S1

General Chemistry

Lot-Sample #...: A9J280123-004 **Work Order #...:** LNDX9 **Matrix.....:** SO
Date Sampled...: 10/27/09 14:00 **Date Received..:** 10/28/09
% Moisture.....: 17

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**83.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**10/28-10/29/09**	**9301302**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-S2

GC Semivolatiles

Lot-Sample #...: A9J280123-005 **Work Order #...:** LND0A1AA **Matrix.....:** SO
Date Sampled...: 10/27/09 14:05 **Date Received..:** 10/28/09
Prep Date.....: 10/28/09 **Analysis Date..:** 10/29/09
Prep Batch #...: 9301359
Dilution Factor: 1
% Moisture.....: 8.7 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	36	ug/kg	23
Aroclor 1221	ND	36	ug/kg	18
Aroclor 1232	ND	36	ug/kg	15
Aroclor 1242	**130**	**36**	**ug/kg**	**14**
Aroclor 1248	ND	36	ug/kg	19
Aroclor 1254	**90**	**36**	**ug/kg**	**19**
Aroclor 1260	ND	36	ug/kg	19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	63	(10 - 196)
Decachlorobiphenyl	99	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-S2

TOTAL Metals

Lot-Sample #...: A9J280123-005 **Matrix.....:** SO
Date Sampled...: 10/27/09 14:05 **Date Received..:** 10/28/09
% Moisture.....: 8.7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9302031						
Cadmium	**5.6**	**0.55**	**mg/kg**	**SW846 6010B**	**10/29-10/30/09**	**LND0A1AC**
		Dilution Factor: 1		MDL.....: 0.039		
Lead	**464**	**0.33**	**mg/kg**	**SW846 6010B**	**10/29-10/30/09**	**LND0A1AD**
		Dilution Factor: 1		MDL.....: 0.21		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-S2

TCLP Metals

Lot-Sample #...: A9J280123-005 **Matrix.....:** SO
Date Sampled...: 10/27/09 14:05 **Date Received..:** 10/28/09
Leach Date.....: 10/29/09 **Leach Batch #..:** P930204

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9303020						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LND0A1
		Dilution Factor: 1		MDL.....: 0.00066		
Lead	**0.69**	**0.50**	**mg/L**	**SW846 6010B**	**10/30-10/31/09**	**LND0A1**
		Dilution Factor: 1		MDL.....: 0.0019		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-S2

General Chemistry

Lot-Sample #...: A9J280123-005 **Work Order #...:** LND0A **Matrix.....:** SO
Date Sampled...: 10/27/09 14:05 **Date Received..:** 10/28/09
% Moisture.....: 8.7

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**91.3**	**10.0**	**%**	**MCAWW 160.3 MOD**	**10/28-10/29/09**	**9301302**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-S3

GC Semivolatiles

Lot-Sample #...: A9J280123-006 **Work Order #...:** LND0C1AA **Matrix.....:** SO
Date Sampled...: 10/27/09 14:06 **Date Received..:** 10/28/09
Prep Date.....: 10/28/09 **Analysis Date..:** 10/29/09
Prep Batch #...: 9301359
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	38	ug/kg	24
Aroclor 1221	ND	38	ug/kg	18
Aroclor 1232	ND	38	ug/kg	16
Aroclor 1242	ND	38	ug/kg	15
Aroclor 1248	ND	38	ug/kg	19
Aroclor 1254	ND	38	ug/kg	19
Aroclor 1260	**84**	**38**	**ug/kg**	**19**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	76	(10 - 196)
Decachlorobiphenyl	125	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-S3

TOTAL Metals

Lot-Sample #...: A9J280123-006 Matrix.....: SO
Date Sampled...: 10/27/09 14:06 Date Received..: 10/28/09
% Moisture.....: 12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9302031						
Cadmium	2.2	0.57	mg/kg	SW846 6010B	10/29-10/30/09	LND0C1AC
		Dilution Factor: 1		MDL.....: 0.041		
Lead	281	0.34	mg/kg	SW846 6010B	10/29-10/30/09	LND0C1AD
		Dilution Factor: 1		MDL.....: 0.22		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-S3

TCLP Metals

Lot-Sample #...: A9J280123-006 **Matrix.....:** SO
Date Sampled...: 10/27/09 14:06 **Date Received..:** 10/28/09
Leach Date.....: 10/29/09 **Leach Batch #..:** P930204

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9303020						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LND0C1
		Dilution Factor: 1		MDL.....: 0.00066		
Lead	ND	0.50	mg/L	SW846 6010B	10/30-10/31/09	LND0C1
		Dilution Factor: 1		MDL.....: 0.0019		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-S3

General Chemistry

Lot-Sample #...: A9J280123-006 **Work Order #...:** LND0C **Matrix.....:** SO
Date Sampled...: 10/27/09 14:06 **Date Received..:** 10/28/09
% Moisture.....: 12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**88.0**	**10.0**	**%**	**MCAWW 160.3 MOD**	**10/28-10/29/09**	**9301302**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-B1

GC Semivolatiles

Lot-Sample #...: A9J280123-007 **Work Order #...:** LND0D1AA **Matrix.....:** SO
Date Sampled...: 10/27/09 14:08 **Date Received..:** 10/28/09
Prep Date.....: 10/28/09 **Analysis Date..:** 10/29/09
Prep Batch #...: 9301359
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	38	ug/kg	24
Aroclor 1221	ND	38	ug/kg	18
Aroclor 1232	ND	38	ug/kg	16
Aroclor 1242	ND	38	ug/kg	15
Aroclor 1248	ND	38	ug/kg	19
Aroclor 1254	ND	38	ug/kg	19
Aroclor 1260	ND	38	ug/kg	19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	73	(10 - 196)
Decachlorobiphenyl	87	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-B1

TOTAL Metals

Lot-Sample #...: A9J280123-007 Matrix.....: SO
Date Sampled...: 10/27/09 14:08 Date Received..: 10/28/09
% Moisture.....: 13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9302031						
Cadmium	0.096 B	0.57	mg/kg	SW846 6010B	10/29-10/30/09	LND0D1AC
		Dilution Factor: 1		MDL.....: 0.041		
Lead	12.8	0.34	mg/kg	SW846 6010B	10/29-10/30/09	LND0D1AD
		Dilution Factor: 1		MDL.....: 0.22		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-B1

TCLP Metals

Lot-Sample #...: A9J280123-007 **Matrix.....:** SO
Date Sampled...: 10/27/09 14:08 **Date Received..:** 10/28/09
Leach Date.....: 10/29/09 **Leach Batch #..:** P930204

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9303020						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LND0D1
		Dilution Factor: 1		MDL.....: 0.00066		
Lead	ND	0.50	mg/L	SW846 6010B	10/30-10/31/09	LND0D1
		Dilution Factor: 1		MDL.....: 0.0019		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-B1

General Chemistry

Lot-Sample #...: A9J280123-007 **Work Order #...:** LND0D **Matrix.....:** SO
Date Sampled...: 10/27/09 14:08 **Date Received..:** 10/28/09
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**87.3**	**10.0**	**%**	**MCAWW 160.3 MOD**	**10/28-10/29/09**	**9301302**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-B2

GC Semivolatiles

Lot-Sample #...: A9J280123-008 **Work Order #...:** LND0E1AA **Matrix.....:** SO
Date Sampled...: 10/27/09 14:20 **Date Received..:** 10/28/09
Prep Date.....: 10/28/09 **Analysis Date..:** 10/29/09
Prep Batch #...: 9301359
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	38	ug/kg	24
Aroclor 1221	ND	38	ug/kg	18
Aroclor 1232	ND	38	ug/kg	16
Aroclor 1242	**250**	**38**	**ug/kg**	**15**
Aroclor 1248	ND	38	ug/kg	19
Aroclor 1254	**210**	**38**	**ug/kg**	**19**
Aroclor 1260	ND	38	ug/kg	19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	69	(10 - 196)
Decachlorobiphenyl	93	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-B2

TOTAL Metals

Lot-Sample #...: A9J280123-008 Matrix.....: SO
Date Sampled...: 10/27/09 14:20 Date Received..: 10/28/09
% Moisture.....: 12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9302031						
Cadmium	1.1	0.57	mg/kg	SW846 6010B	10/29-10/30/09	LND0E1AC
		Dilution Factor: 1		MDL.....: 0.041		
Lead	343	1.7	mg/kg	SW846 6010B	10/29-10/30/09	LND0E1AD
		Dilution Factor: 5		MDL.....: 1.1		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-B2

TCLP Metals

Lot-Sample #...: A9J280123-008 **Matrix.....:** SO
Date Sampled...: 10/27/09 14:20 **Date Received..:** 10/28/09
Leach Date.....: 10/29/09 **Leach Batch #..:** P930204

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9303020						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LND0E1
		Dilution Factor: 1		MDL.....: 0.00066		
Lead	ND	0.50	mg/L	SW846 6010B	10/30-10/31/09	LND0E1
		Dilution Factor: 1		MDL.....: 0.0019		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-B2

General Chemistry

Lot-Sample #...: A9J280123-008 **Work Order #...:** LND0E **Matrix.....:** SO
Date Sampled...: 10/27/09 14:20 **Date Received..:** 10/28/09
% Moisture.....: 12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**87.7**	**10.0**	**%**	**MCAWW 160.3 MOD**	**10/28-10/29/09**	**9301302**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

dup of JSS9-B2

Client Sample ID: S-091027-PS-JSS9-B3

GC Semivolatiles

Lot-Sample #...: A9J280123-009 **Work Order #...:** LND0F1AA **Matrix.....:** SO
Date Sampled...: 10/27/09 14:20 **Date Received..:** 10/28/09
Prep Date.....: 10/28/09 **Analysis Date..:** 10/29/09
Prep Batch #...: 9301359
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	37	ug/kg	24
Aroclor 1221	ND	37	ug/kg	18
Aroclor 1232	ND	37	ug/kg	16
Aroclor 1242	**280**	**37**	**ug/kg**	**15**
Aroclor 1248	ND	37	ug/kg	19
Aroclor 1254	**180**	**37**	**ug/kg**	**19**
Aroclor 1260	ND	37	ug/kg	19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	69	(10 - 196)
Decachlorobiphenyl	84	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-B3

TOTAL Metals

Lot-Sample #...: A9J280123-009 Matrix.....: SO
Date Sampled...: 10/27/09 14:20 Date Received..: 10/28/09
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9302031						
Cadmium	2.4	0.56	mg/kg	SW846 6010B	10/29-10/30/09	LND0F1AC
		Dilution Factor: 1		MDL.....: 0.040		
Lead	628	0.34	mg/kg	SW846 6010B	10/29-10/30/09	LND0F1AD
		Dilution Factor: 1		MDL.....: 0.21		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-B3

TCLP Metals

Lot-Sample #...: A9J280123-009 **Matrix.....:** SO
Date Sampled...: 10/27/09 14:20 **Date Received..:** 10/28/09
Leach Date.....: 10/29/09 **Leach Batch #..:** P930204

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9303020						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LND0F1
		Dilution Factor: 1		MDL.....: 0.00066		
Lead	ND	0.50	mg/L	SW846 6010B	10/30-10/31/09	LND0F1
		Dilution Factor: 1		MDL.....: 0.0019		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JSS9-B3

General Chemistry

Lot-Sample #...: A9J280123-009 **Work Order #...:** LND0F **Matrix.....:** SO
Date Sampled...: 10/27/09 14:20 **Date Received..:** 10/28/09
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**89.3**	**10.0**	**%**	**MCAWW 160.3 MOD**	**10/28-10/29/09**	**9301302**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JB1-B1

GC Semivolatiles

Lot-Sample #...: A9J280123-010 **Work Order #...:** LND0G1AA **Matrix.....:** SO
Date Sampled...: 10/27/09 14:15 **Date Received..:** 10/28/09
Prep Date.....: 10/28/09 **Analysis Date..:** 10/29/09
Prep Batch #...: 9301359
Dilution Factor: 1
% Moisture.....: 6.4 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	35	ug/kg	22
Aroclor 1221	ND	35	ug/kg	17
Aroclor 1232	ND	35	ug/kg	15
Aroclor 1242	ND	35	ug/kg	14
Aroclor 1248	ND	35	ug/kg	18
Aroclor 1254	ND	35	ug/kg	18
Aroclor 1260	ND	35	ug/kg	18

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	68	(10 - 196)
Decachlorobiphenyl	85	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JB1-B1

TOTAL Metals

Lot-Sample #...: A9J280123-010 **Matrix.....:** SO
Date Sampled...: 10/27/09 14:15 **Date Received..:** 10/28/09
% Moisture.....: 6.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9302031						
Cadmium	**0.059 B**	**0.53**	**mg/kg**	**SW846 6010B**	**10/29-10/30/09**	**LND0G1AC**
		Dilution Factor: 1		MDL.....: 0.038		
Lead	**3.3**	**0.32**	**mg/kg**	**SW846 6010B**	**10/29-10/30/09**	**LND0G1AD**
		Dilution Factor: 1		MDL.....: 0.20		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JB1-B1

TCLP Metals

Lot-Sample #...: A9J280123-010 **Matrix.....:** SO
Date Sampled...: 10/27/09 14:15 **Date Received..:** 10/28/09
Leach Date.....: 10/29/09 **Leach Batch #..:** P930204

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9303020						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LND0G1
		Dilution Factor: 1		MDL.....: 0.00066		
Lead	ND	0.50	mg/L	SW846 6010B	10/30-10/31/09	LND0G1
		Dilution Factor: 1		MDL.....: 0.0019		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091027-PS-JB1-B1

General Chemistry

Lot-Sample #...: A9J280123-010 **Work Order #...:** LND0G **Matrix.....:** SO
Date Sampled...: 10/27/09 14:15 **Date Received..:** 10/28/09
% Moisture.....: 6.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**93.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**10/28-10/29/09**	**9301302**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

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Client Sample ID: W-091027-PS-RB2

GC Semivolatiles

Lot-Sample #...: A9J280123-011 **Work Order #...:** LND0H1AA **Matrix.....:** WQ
Date Sampled...: 10/27/09 13:00 **Date Received..:** 10/28/09
Prep Date.....: 10/28/09 **Analysis Date..:** 10/29/09
Prep Batch #...: 9301358
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.17
Aroclor 1221	ND	1.0	ug/L	0.13
Aroclor 1232	ND	1.0	ug/L	0.16
Aroclor 1242	ND	1.0	ug/L	0.22
Aroclor 1248	ND	1.0	ug/L	0.10
Aroclor 1254	ND	1.0	ug/L	0.16
Aroclor 1260	ND	1.0	ug/L	0.17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	54	(27 - 130)
Decachlorobiphenyl	33	(10 - 127)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: W-091027-PS-RB2

TOTAL Metals

Lot-Sample #...: A9J280123-011 **Matrix.....:** WQ
Date Sampled...: 10/27/09 13:00 **Date Received..:** 10/28/09

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9302012						
Cadmium	ND	5.0	ug/L	SW846 6010B	10/29/09	LND0H1AC
		Dilution Factor: 1		MDL.....: 0.66		
Lead	ND	3.0	ug/L	SW846 6010B	10/29/09	LND0H1AD
		Dilution Factor: 1		MDL.....: 1.9		

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QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A9J280123 **Work Order #...:** LNER61AA **Matrix.....:** WATER
MB Lot-Sample #: A9J280000-358

Prep Date.....: 10/28/09
Analysis Date..: 10/29/09 **Prep Batch #...:** 9301358
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	1.0	ug/L	SW846 8082
Aroclor 1221	ND	1.0	ug/L	SW846 8082
Aroclor 1232	ND	1.0	ug/L	SW846 8082
Aroclor 1242	ND	1.0	ug/L	SW846 8082
Aroclor 1248	ND	1.0	ug/L	SW846 8082
Aroclor 1254	ND	1.0	ug/L	SW846 8082
Aroclor 1260	ND	1.0	ug/L	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	72	(27 - 130)
Decachlorobiphenyl	68	(10 - 127)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A9J280123 **Work Order #...:** LNER71AA **Matrix.....:** SOLID
MB Lot-Sample #: A9J280000-359

Prep Date.....: 10/28/09
Analysis Date..: 10/29/09 **Prep Batch #...:** 9301359
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	84	(10 - 196)
Decachlorobiphenyl	103	(10 - 199)

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A9J280123 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A9J290000-012 **Prep Batch #...:** 9302012						
Cadmium	ND	5.0	ug/L	SW846 6010B	10/29/09	LNF061AX
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	10/29/09	LNF061A0
		Dilution Factor: 1				

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A9J280123 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A9J290000-031 **Prep Batch #...:** 9302031						
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/29-10/30/09	LNF2C1
		Dilution Factor: 1				
Lead	ND	0.30	mg/kg	SW846 6010B	10/29-10/30/09	LNF2C1
		Dilution Factor: 1				

NOTE(S):

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

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: A9J280123 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A9J290000-283		**Prep Batch #...:** 9303020				
Leach Date.....: 10/29/09		**Leach Batch #..:** P930204				
Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LNGVD1AA
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010B	10/30-10/31/09	LNGVD1AC
		Dilution Factor: 1				

NOTE(S):

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

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: A9J280123 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A9J300000-020 **Prep Batch #...:** 9303020						
Cadmium	ND	0.10	mg/L	SW846 6010B	10/30-10/31/09	LNJDV1
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010B	10/30-10/31/09	LNJDV1
		Dilution Factor: 1				

NOTE(S):

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A9J280123 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #:	LNECG1AA	MB Lot-Sample #:	A9J280000-302	
	ND	10.0	%	MCAWW 160.3 MOD	10/28-10/29/09	9301302
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9J280123 **Work Order #...:** LNER61AC **Matrix.....:** WATER
LCS Lot-Sample#: A9J280000-358
Prep Date.....: 10/28/09 **Analysis Date..:** 10/29/09
Prep Batch #...: 9301358
Dilution Factor: 2

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**77**	**(44 - 119)**	**SW846 8082**
Aroclor 1260	**96**	**(41 - 118)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	78	(27 - 130)
Decachlorobiphenyl	54	(10 - 127)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9J280123 **Work Order #...:** LNER61AC **Matrix.....:** WATER
LCS Lot-Sample#: A9J280000-358
Prep Date.....: 10/28/09 **Analysis Date..:** 10/29/09
Prep Batch #...: 9301358
Dilution Factor: 2

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	**10**	**7.7**	**ug/L**	**77**	**SW846 8082**
Aroclor 1260	**10**	**9.6**	**ug/L**	**96**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	78	(27 - 130)
Decachlorobiphenyl	54	(10 - 127)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9J280123 **Work Order #...:** LNER71AC **Matrix.....:** SOLID
LCS Lot-Sample#: A9J280000-359
Prep Date.....: 10/28/09 **Analysis Date..:** 10/29/09
Prep Batch #...: 9301359
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**77**	**(34 - 127)**	**SW846 8082**
Aroclor 1260	**90**	**(32 - 141)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	80	(10 - 196)
Decachlorobiphenyl	101	(10 - 199)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9J280123 **Work Order #...:** LNER71AC **Matrix.....:** SOLID
LCS Lot-Sample#: A9J280000-359
Prep Date.....: 10/28/09 **Analysis Date..:** 10/29/09
Prep Batch #...: 9301359
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	**330**	**260**	**ug/kg**	**77**	**SW846 8082**
Aroclor 1260	**330**	**300**	**ug/kg**	**90**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	80	(10 - 196)
Decachlorobiphenyl	101	(10 - 199)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A9J280123 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9J290000-012 **Prep Batch #...:** 9302012					
Cadmium	101	(80 - 120)	SW846 6010B	10/29/09	LNF061CW
		Dilution Factor: 1			
Lead	102	(80 - 120)	SW846 6010B	10/29/09	LNF061CX
		Dilution Factor: 1			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A9J280123 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9J290000-012 **Prep Batch #...:** 9302012							
Cadmium	50.0	50.6	ug/L	101	SW846 6010B	10/29/09	LNF061CW
			Dilution Factor: 1				
Lead	500	508	ug/L	102	SW846 6010B	10/29/09	LNF061CX
			Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A9J280123 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9J290000-031 **Prep Batch #...:** 9302031					
Cadmium	98	(80 - 120)	SW846 6010B	10/29-10/30/09	LNF2C1AD
		Dilution Factor: 1			
Lead	98	(80 - 120)	SW846 6010B	10/29-10/30/09	LNF2C1AE
		Dilution Factor: 1			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A9J280123 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9J290000-031 **Prep Batch #...:** 9302031							
Cadmium	5.0	4.9	mg/kg	98	SW846 6010B	10/29-10/30/09	LNF2C1AD
			Dilution Factor: 1				
Lead	50.0	48.9	mg/kg	98	SW846 6010B	10/29-10/30/09	LNF2C1AE
			Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A9J280123 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9J300000-020 **Prep Batch #...:** 9303020					
Cadmium	107	(50 - 150)	SW846 6010B	10/30-10/31/09	LNJDV1AR
		Dilution Factor: 1			
Lead	107	(50 - 150)	SW846 6010B	10/30-10/31/09	LNJDV1AU
		Dilution Factor: 1			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: A9J280123 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9J300000-020 **Prep Batch #...:** 9303020							
Cadmium	0.050	0.053	mg/L	107	SW846 6010B	10/30-10/31/09	LNJDV1AR
			Dilution Factor: 1				
Lead	0.50	0.54	mg/L	107	SW846 6010B	10/30-10/31/09	LNJDV1AU
			Dilution Factor: 1				

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9J280123 **Work Order #...:** LNDXH1CR-MS **Matrix.....:** WATER
MS Lot-Sample #: A9J280120-002 LNDXH1CT-MSD
Date Sampled...: 10/27/09 11:15 **Date Received..:** 10/28/09
Prep Date.....: 10/28/09 **Analysis Date..:** 10/29/09
Prep Batch #...: 9301358
Dilution Factor: 2

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**77**	**(10 - 166)**			**SW846 8082**
	79	**(10 - 166)**	**1.6**	**(0-30)**	**SW846 8082**
Aroclor 1260	**87**	**(21 - 140)**			**SW846 8082**
	91	**(21 - 140)**	**5.0**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	78	(27 - 130)
	81	(27 - 130)
Decachlorobiphenyl	67	(10 - 127)
	69	(10 - 127)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9J280123 **Work Order #...:** LNDXH1CR-MS **Matrix.....:** WATER
MS Lot-Sample #: A9J280120-002 LNDXH1CT-MSD
Date Sampled...: 10/27/09 11:15 **Date Received..:** 10/28/09
Prep Date.....: 10/28/09 **Analysis Date..:** 10/29/09
Prep Batch #...: 9301358
Dilution Factor: 2

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aroclor 1016	**ND**	**20**	**15**	**ug/L**	**77**		**SW846 8082**
	ND	**20**	**16**	**ug/L**	**79**	**1.6**	**SW846 8082**
Aroclor 1260	**ND**	**20**	**17**	**ug/L**	**87**		**SW846 8082**
	ND	**20**	**18**	**ug/L**	**91**	**5.0**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	78	(27 - 130)
	81	(27 - 130)
Decachlorobiphenyl	67	(10 - 127)
	69	(10 - 127)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9J280123 **Work Order #...:** LNDMV1AG-MS **Matrix.....:** SOLID
MS Lot-Sample #: A9J280105-001 LNDMV1AH-MSD
Date Sampled...: 10/27/09 13:30 **Date Received..:** 10/28/09
Prep Date.....: 10/28/09 **Analysis Date..:** 10/29/09
Prep Batch #...: 9301359
Dilution Factor: 10 **% Moisture.....:** 22

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**492 DIL,a**	**(10 - 199)**			**SW846 8082**
	519 DIL,a	**(10 - 199)**	**5.3**	**(0-30)**	**SW846 8082**
Aroclor 1260	**66 DIL**	**(10 - 199)**			**SW846 8082**
	67 DIL	**(10 - 199)**	**1.9**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	82 DIL	(10 - 196)
	81 DIL	(10 - 196)
Decachlorobiphenyl	794	(10 - 199)
	Qualifiers: DIL,*	
	879	(10 - 199)
	Qualifiers: DIL,*	

NOTE(S):

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

Bold print denotes control parameters

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

a Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9J280123 **Work Order #...:** LNDMV1AG-MS **Matrix.....:** SOLID
MS Lot-Sample #: A9J280105-001 LNDMV1AH-MSD
Date Sampled...: 10/27/09 13:30 **Date Received..:** 10/28/09
Prep Date.....: 10/28/09 **Analysis Date..:** 10/29/09
Prep Batch #...: 9301359
Dilution Factor: 10 **% Moisture.....:** 22

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aroclor 1016	**ND**	**420**	**2100**	**ug/kg**	**492**		**SW846 8082**
	Qualifiers:		DIL,a				
	ND	**430**	**2200**	**ug/kg**	**519**	**5.3**	**SW846 8082**
	Qualifiers:		DIL,a				
Aroclor 1260	**ND**	**420**	**280**	**ug/kg**	**66 DIL**		**SW846 8082**
	ND	**430**	**290**	**ug/kg**	**67 DIL**	**1.9**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	82 DIL	(10 - 196)
	81 DIL	(10 - 196)
Decachlorobiphenyl	794	(10 - 199)
Qualifiers:	DIL,*	
	879	(10 - 199)
Qualifiers:	DIL,*	

NOTE(S):

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

Bold print denotes control parameters

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

a Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A9J280123 **Matrix.....:** SO
Date Sampled...: 10/27/09 13:37 **Date Received..:** 10/28/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A9J280123-001 **Prep Batch #...:** 9302031							
Cadmium	89	(75 - 125)			SW846 6010B	10/29-10/30/09	LNDX21AJ
	90	(75 - 125)	0.99	(0-20)	SW846 6010B	10/29-10/30/09	LNDX21AK
		Dilution Factor: 1					
Lead	88	(75 - 125)			SW846 6010B	10/29-10/30/09	LNDX21AL
	91	(75 - 125)	3.2	(0-20)	SW846 6010B	10/29-10/30/09	LNDX21AM
		Dilution Factor: 1					

NOTE(S):

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

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A9J280123 **Matrix.....:** SO
Date Sampled...: 10/27/09 13:37 **Date Received..:** 10/28/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A9J280123-001 **Prep Batch #...:** 9302031									
Cadmium									
	0.13	5.3	5.0	mg/kg	89		SW846 6010B	10/29-10/30/09	LNDX21AJ
	0.13	5.3	5.0	mg/kg	90	0.99	SW846 6010B	10/29-10/30/09	LNDX21AK
			Dilution Factor: 1						
Lead									
	5.5	53.4	52.5	mg/kg	88		SW846 6010B	10/29-10/30/09	LNDX21AL
	5.5	53.4	54.2	mg/kg	91	3.2	SW846 6010B	10/29-10/30/09	LNDX21AM
			Dilution Factor: 1						

NOTE(S):

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

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A9J280123 **Matrix.....:** SOLID
Date Sampled...: 10/28/09 10:30 **Date Received..:** 10/28/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A9J280212-001 **Prep Batch #...:** 9303020							
Leach Date.....: 10/29/09 **Leach Batch #..:** P930204							
Cadmium	107	(50 - 150)			SW846 6010B	10/30-10/31/09	LNETJ1A3
	107	(50 - 150)	0.54	(0-20)	SW846 6010B	10/30-10/31/09	LNETJ1A4
		Dilution Factor: 5					
Lead	108	(50 - 150)			SW846 6010B	10/30-10/31/09	LNETJ1A7
	110	(50 - 150)	1.3	(0-20)	SW846 6010B	10/30-10/31/09	LNETJ1A8
		Dilution Factor: 5					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: A9J280123 **Matrix.....:** SOLID
Date Sampled...: 10/28/09 10:30 **Date Received..:** 10/28/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A9J280212-001 **Prep Batch #...:** 9303020									
Leach Date.....: 10/29/09 **Leach Batch #..:** P930204									
Cadmium									
	ND	1.0	1.1	mg/L	107		SW846 6010B	10/30-10/31/09	LNETJ1A3
	ND	1.0	1.1	mg/L	107	0.54	SW846 6010B	10/30-10/31/09	LNETJ1A4
			Dilution Factor: 5						
Lead									
	0.97	5.0	6.4	mg/L	108		SW846 6010B	10/30-10/31/09	LNETJ1A7
	0.97	5.0	6.4	mg/L	110	1.3	SW846 6010B	10/30-10/31/09	LNETJ1A8
			Dilution Factor: 5						

NOTE(S):

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

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A9J280123 **Work Order #...:** LNDMV-SMP LNDMV-DUP **Matrix.....:** SOLID

Date Sampled...: 10/27/09 13:30 **Date Received..:** 10/28/09

% Moisture.....: 22

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATC
Percent Solids						SD Lot-Sample #:	A9J280105-001	
	78.3	81.5	%	3.9	(0-20)	MCAWW 160.3 MOD	10/28-10/29/09	93013

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A9J280123 **Work Order #...:** LND0G-SMP LND0G-DUP **Matrix.....:** SO

Date Sampled...: 10/27/09 14:15 **Date Received..:** 10/28/09

% Moisture.....: 6.4

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #:	A9J280123-010	
	93.6	93.5	%	0.029	(0-20)	MCAWW 160.3 MOD	10/28-10/29/09	9301302

Dilution Factor: 1

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES
Steve Voss
651-639-0913

SHIPPED TO (Laboratory Name): Test America

REFERENCE NUMBER: 054633

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: Peter Storlie

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS: T. PCB, Pb, Cd	PARAMETERS: TCLP Pb + Cd					2 DAY TAT	GRAB	REMARKS
	10/27/09	1337	S-091027-PS-JSS7-B1	Solid	2	X	X							2-DAY TAT
		1342	JSS8-B1			X	X							
		1343	JSS8-B2			X	X							
		1400	JSS9-S1			X	X							
		1405	JSS9-S2			X	X							
		1406	JSS9-S3			X	X							
		1408	JSS9-B1			X	X							
		1420	JSS9-B2			X	X							
		1420	JSS9-B3			X	X							
		1415	JB1-B1			X	X							
		1300	W-091027-PS-RB2	Water	3	X								

TOTAL NUMBER OF CONTAINERS: 23

HEALTH/CHEMICAL HAZARDS:

RELINQUISHED BY: ① [signature]	DATE: 10-27-09 TIME: 1645	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: OVERNIGHT FED EX WAY BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Goldenrod —Sampler Copy

SAMPLE TEAM: STORLIE

RECEIVED FOR LABORATORY BY: [signature]
DATE: 10/28/09 TIME: 9:20 AM

№ CRA 22396

1001 (D) APR 28/97(NF) REV. 0 (F-15)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** H9J280123
North Canton Facility

Client CRA Project 54633 By: [signature]
Cooler Received on 10/28/09 Opened on 10/28/09 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____
TestAmerica Cooler # 44 Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 2 Quantity Unsalvageable _____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other _____
6. Cooler temperature upon receipt 3.6 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐ _____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☒ No ☐ NA ☐
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

_____

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 031909-HNO_3; *Sulfuric Acid Lot#* 082509-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials
381-RB2	<2	10/28/09	[illegible]

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant

Discrepancies Cont'd:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Grant Anderson
Conestoga-Rovers & Associates, Inc.
PROJECT NO. 54633
Jefferson Yard

SAMPLE SUMMARY

WO #	LABORATORY ID	SAMPLE IDENTIFICATION
LNJV3	A9J300158-001	S-091029-PS-SB11-B1R

TESTAMERICA LABORATORIES, INC.

Denise D Heckler

Approved for release.
Denise D. Heckler
Project Manager
11/5/2009 3:12 PM

Denise D. Heckler
Project Manager
denise.heckler@testamericainc.com

November 05, 2009

TestAmerica Laboratories, Inc.
TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720
Tel (330)497-9396 Fax (330)497-0772 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

CASE NARRATIVE

A9J300158

The following report contains the analytical results for one solid sample submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the Jefferson Yard Site, project number 54633. The sample was received October 30, 2009, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The sample presented in this report was analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Grant Anderson, Pete Storlie and Steve Voss on November 04, 2009. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 5.4°C.

POLYCHLORINATED BIPHENYLS-8082

The analytical results met the requirements of the laboratory's QA/QC program.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The QC batch associated with batch 9307019 for the Metals analysis is reported without an MS/MSD. The MS/MSD was performed on another client's sample within the batch. The MS/MSD result does not have immediate bearing on any samples except for the actual sample spiked. Ongoing evaluation and monitoring of the LCS provides long-term precision and accuracy for the method.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- *Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.*

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

EXECUTIVE SUMMARY - Detection Highlights

A9J300158

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-091029-PS-SB11-B1R 10/29/09 08:00 001				
Lead	17.0	0.36	mg/kg	SW846 6010B
Cadmium	0.23 B	0.61	mg/kg	SW846 6010B
Percent Solids	82.3	10.0	%	MCAWW 160.3 MOD

ANALYTICAL METHODS SUMMARY

A9J300158

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
PCBs by SW-846 8082	SW846 8082
Total Residue as Percent Solids	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

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

SAMPLE SUMMARY

A9J300158

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAM TI
LNJV3	001	S-091029-PS-SB11-B1R	10/29/09	08:

NOTE (S) :

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

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091029-PS-SB11-B1R

GC Semivolatiles

Lot-Sample #...: A9J300158-001 **Work Order #...:** LNJV31AA **Matrix.....:** SO
Date Sampled...: 10/29/09 08:00 **Date Received..:** 10/30/09
Prep Date.....: 10/30/09 **Analysis Date..:** 11/04/09
Prep Batch #...: 9303293
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	40	ug/kg	26
Aroclor 1221	ND	40	ug/kg	19
Aroclor 1232	ND	40	ug/kg	17
Aroclor 1242	ND	40	ug/kg	16
Aroclor 1248	ND	40	ug/kg	21
Aroclor 1254	ND	40	ug/kg	21
Aroclor 1260	ND	40	ug/kg	21

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	78	(10 - 196)
Decachlorobiphenyl	82	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091029-PS-SB11-B1R

TOTAL Metals

Lot-Sample #...: A9J300158-001 **Matrix.....:** SO
Date Sampled...: 10/29/09 08:00 **Date Received..:** 10/30/09
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9303242						
Cadmium	**0.23 B**	**0.61**	**mg/kg**	**SW846 6010B**	**10/30-10/31/09**	**LNJV31**
		Dilution Factor: 1		MDL.....: 0.044		
Lead	**17.0**	**0.36**	**mg/kg**	**SW846 6010B**	**10/30-10/31/09**	**LNJV31**
		Dilution Factor: 1		MDL.....: 0.23		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091029-PS-SB11-B1R

TCLP Metals

Lot-Sample #...: A9J300158-001 **Matrix.....:** SO
Date Sampled...: 10/29/09 08:00 **Date Received..:** 10/30/09
Leach Date.....: 11/02/09 **Leach Batch #..:** P930608

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9307019						
Cadmium	ND	0.10	mg/L	SW846 6010B	11/03-11/04/09	LNJV31AE
		Dilution Factor: 1		MDL.....: 0.00066		
Lead	ND	0.50	mg/L	SW846 6010B	11/03-11/04/09	LNJV31AF
		Dilution Factor: 1		MDL.....: 0.0019		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091029-PS-SB11-B1R

General Chemistry

Lot-Sample #...: A9J300158-001 **Work Order #...:** LNJV3 **Matrix.....:** SO
Date Sampled...: 10/29/09 08:00 **Date Received..:** 10/30/09
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**82.3**	**10.0**	**%**	**MCAWW 160.3 MOD**	**10/30-10/31/09**	**930332**

Dilution Factor: 1 MDL.....: 10.0

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A9J300158 **Work Order #...:** LNJ7Q1AA **Matrix.....:** SOLID
MB Lot-Sample #: A9J300000-293

Prep Date.....: 10/30/09
Analysis Date..: 11/04/09 **Prep Batch #...:** 9303293
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	78	(10 - 196)
Decachlorobiphenyl	72	(10 - 199)

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A9J300158 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A9J300000-242 **Prep Batch #...:** 9303242						
Cadmium	ND	0.50	mg/kg	SW846 6010B	10/30-10/31/09	LNJXX1AA
		Dilution Factor: 1				
Lead	ND	0.30	mg/kg	SW846 6010B	10/30-10/31/09	LNJXX1AC
		Dilution Factor: 1				

NOTE(S):

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

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: A9J300158 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A9K020000-229		**Prep Batch #...:** 9307019				
Leach Date.....: 11/02/09		**Leach Batch #..:** P930608				
Cadmium	ND	0.10	mg/L	SW846 6010B	11/03-11/04/09	LNNL61A
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010B	11/03-11/04/09	LNNL61A
		Dilution Factor: 1				

NOTE(S):

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

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: A9J300158 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A9K030000-019 **Prep Batch #...:** 9307019						
Cadmium	ND	0.10	mg/L	SW846 6010B	11/03-11/04/09	LNPGM1AD
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010B	11/03-11/04/09	LNPGM1AF
		Dilution Factor: 1				

NOTE(S):

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A9J300158 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #:	LNJ8X1AA	MB Lot-Sample #:	A9J300000-320	
	ND	10.0	%	MCAWW 160.3 MOD	10/30-10/31/09	930332(
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9J300158 **Work Order #...:** LNJ7Q1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A9J300000-293
Prep Date.....: 10/30/09 **Analysis Date..:** 11/04/09
Prep Batch #...: 9303293
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**75**	**(34 - 127)**	**SW846 8082**
Aroclor 1260	**75**	**(32 - 141)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	78	(10 - 196)
Decachlorobiphenyl	80	(10 - 199)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9J300158 **Work Order #...:** LNJ7Q1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A9J300000-293
Prep Date.....: 10/30/09 **Analysis Date..:** 11/04/09
Prep Batch #...: 9303293
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	**330**	**250**	**ug/kg**	**75**	**SW846 8082**
Aroclor 1260	**330**	**250**	**ug/kg**	**75**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	78	(10 - 196)
Decachlorobiphenyl	80	(10 - 199)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A9J300158 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9J300000-242 **Prep Batch #...:** 9303242					
Cadmium	96	(80 - 120)	SW846 6010B	10/30-10/31/09	LNJXX1AD
		Dilution Factor: 1			
Lead	96	(80 - 120)	SW846 6010B	10/30-10/31/09	LNJXX1AE
		Dilution Factor: 1			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A9J300158 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9J300000-242 **Prep Batch #...:** 9303242							
Cadmium	5.0	4.8	mg/kg	96	SW846 6010B	10/30-10/31/09	LNJXX1AD
			Dilution Factor: 1				
Lead	50.0	48.1	mg/kg	96	SW846 6010B	10/30-10/31/09	LNJXX1AE
			Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A9J300158 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9K030000-019 **Prep Batch #...:** 9307019					
Cadmium	106	(50 - 150)	SW846 6010B	11/03-11/04/09	LNPGM1AM
		Dilution Factor: 1			
Lead	104	(50 - 150)	SW846 6010B	11/03-11/04/09	LNPGM1AP
		Dilution Factor: 1			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: A9J300158 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9K030000-019 **Prep Batch #...:** 9307019							
Cadmium	0.050	0.053	mg/L	106	SW846 6010B	11/03-11/04/09	LNPGM1AM
			Dilution Factor: 1				
Lead	0.50	0.52	mg/L	104	SW846 6010B	11/03-11/04/09	LNPGM1AP
			Dilution Factor: 1				

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9J300158 **Work Order #...:** LNHFG1AU-MS **Matrix.....:** SOLID
MS Lot-Sample #: A9J290236-001 LNHFG1AV-MSD
Date Sampled...: 10/26/09 09:55 **Date Received..:** 10/28/09
Prep Date.....: 10/30/09 **Analysis Date..:** 11/03/09
Prep Batch #...: 9303293
Dilution Factor: 1 **% Moisture.....:** 100

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**78**	**(10 - 199)**			**SW846 8082**
	74	**(10 - 199)**	**5.0**	**(0-30)**	**SW846 8082**
Aroclor 1260	**79**	**(10 - 199)**			**SW846 8082**
	72	**(10 - 199)**	**9.0**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	82	(10 - 196)
	76	(10 - 196)
Decachlorobiphenyl	89	(10 - 199)
	83	(10 - 199)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9J300158 **Work Order #...:** LNHFG1AU-MS **Matrix.....:** SOLID
MS Lot-Sample #: A9J290236-001 LNHFG1AV-MSD
Date Sampled...: 10/26/09 09:55 **Date Received..:** 10/28/09
Prep Date.....: 10/30/09 **Analysis Date..:** 11/03/09
Prep Batch #...: 9303293
Dilution Factor: 1 **% Moisture.....:** 100

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aroclor 1016	**ND**	**330**	**260**	**ug/kg**	**78**		**SW846 8082**
	ND	**330**	**250**	**ug/kg**	**74**	**5.0**	**SW846 8082**
Aroclor 1260	**ND**	**330**	**260**	**ug/kg**	**79**		**SW846 8082**
	ND	**330**	**240**	**ug/kg**	**72**	**9.0**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	82	(10 - 196)
	76	(10 - 196)
Decachlorobiphenyl	89	(10 - 199)
	83	(10 - 199)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A9J300158 **Matrix.....:** SO
Date Sampled...: 10/29/09 08:00 **Date Received..:** 10/30/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A9J300158-001 **Prep Batch #...:** 9303242							
Cadmium	91	(75 - 125)			SW846 6010B	10/30-10/31/09	LNJV31AJ
	93	(75 - 125)	2.3	(0-20)	SW846 6010B	10/30-10/31/09	LNJV31AK
		Dilution Factor: 1					
Lead	93	(75 - 125)			SW846 6010B	10/30-10/31/09	LNJV31AL
	95	(75 - 125)	1.4	(0-20)	SW846 6010B	10/30-10/31/09	LNJV31AM
		Dilution Factor: 1					

NOTE(S):

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

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A9J300158 **Matrix.....:** SO
Date Sampled...: 10/29/09 08:00 **Date Received..:** 10/30/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
MS Lot-Sample #: A9J300158-001 **Prep Batch #...:** 9303242									
Cadmium									
	0.23	6.1	5.7	mg/kg	91		SW846 6010B	10/30-10/31/09	LNJV37
	0.23	6.1	5.9	mg/kg	93	2.3	SW846 6010B	10/30-10/31/09	LNJV3
			Dilution Factor: 1						
Lead									
	17.0	60.7	73.7	mg/kg	93		SW846 6010B	10/30-10/31/09	LNJV3
	17.0	60.7	74.7	mg/kg	95	1.4	SW846 6010B	10/30-10/31/09	LNJV31
			Dilution Factor: 1						

NOTE(S):

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

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A9J300158 **Work Order #...:** LMWNP-SMP LMWNP-DUP **Matrix.....:** SOLID

Date Sampled...: 10/19/09 10:44 **Date Received..:** 10/20/09

% Moisture.....: 31

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A9J200160-006		
	68.9	56.7	%	19	(0-20)	MCAWW 160.3 MOD	10/30-10/31/09	9303320

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A9J300158 **Work Order #...:** LMWNR-SMP **Matrix.....:** SOLID
LMWNR-DUP
Date Sampled...: 10/19/09 11:20 **Date Received..:** 10/20/09
% Moisture.....: 20

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Percent Solids						SD Lot-Sample #: A9J200160-007		
	80.0	78.4	%	2.0	(0-20)	MCAWW 160.3 MOD	10/30-10/31/09	93033

Dilution Factor: 1

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES
Grant Anderson
651-639-0923

SHIPPED TO (Laboratory Name): Test America

REFERENCE NUMBER: 054633

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: Peter Starli

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS: T. PCB	Pb & Cd	TCLP Pb & Cd			1-Day TAT		GRAB	REMARKS
	10/29/09	0800	S-091029-PS-SB11-B1R	SOIL	2	X	X	X			X		X	1-Day TAT

TOTAL NUMBER OF CONTAINERS: 2

HEALTH/CHEMICAL HAZARDS:

RELINQUISHED BY: ① [signature]	DATE: 1200 TIME: 10-29-09	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: FED EX - overnight

WAY BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Goldenrod —Sampler Copy

SAMPLE TEAM: Starli

RECEIVED FOR LABORATORY BY: [signature]

DATE: 10/30/09 TIME: 10:00 Am

Nº CRA 22397

1001 (D) APR 28/97(NF) REV. 0 (F-15)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** A9J300158
North Canton Facility

Client CRA Project 54633 By: [signature]
Cooler Received on 10/30/09 Opened on 10/30/09 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____
TestAmerica Cooler # L591 Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 2 Quantity Unsalvageable _____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other _____
6. Cooler temperature upon receipt 5.9 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐ _____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

_____

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 031909-HNO_3; *Sulfuric Acid Lot#* 082509-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant

Discrepancies Cont'd:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Grant Anderson
Conestoga-Rovers & Associates, Inc.
PROJECT NO. 54633
Jefferson Yard

SAMPLE SUMMARY

WO #	LABORATORY ID	SAMPLE IDENTIFICATION	
LNPTJ	A9K030418-001	S-091102-PS-JSS9-S2R	Resample of JSS9-S2 8' North
LNPTP	A9K030418-002	S-091102-PS-JSS9-S2RR	dup of S2
LNPTQ	A9K030418-003	S-091102-PS-JSS9-B2R	Resample of JSS9-B2 2' deep

TESTAMERICA LABORATORIES, INC.

Denise D Heckler

Denise D. Heckler
Project Manager
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Approved for release.
Denise D. Heckler
Project Manager
11/9/2009 3:16 PM

November 07, 2009

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ACCREDITED IN ACCORDANCE WITH nelac

CASE NARRATIVE

A9K030418

The following report contains the analytical results for three solid samples submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the Jefferson Yard Site, project number 54633. The samples were received November 03, 2009, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Grant Anderson, Pete Storlie, and Steve Voss on November 04, 2009. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 3.9°C.

POLYCHLORINATED BIPHENYLS-8082

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for batch(es) 9307036 had RPD's outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "J". Refer to the sample report pages for the affected analyte(s).

The matrix spike/matrix spike duplicate(s) for S-091102-PS-JSS9-B2R had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

EXECUTIVE SUMMARY - Detection Highlights

A9K030418

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-091102-PS-JSS9-S2R 11/02/09 14:00	**001**			
Aroclor 1254	21 J	39	ug/kg	SW846 8082
Lead	62.9 J	0.35	mg/kg	SW846 6010B
Cadmium	0.34 B	0.58	mg/kg	SW846 6010B
Percent Solids	85.5	10.0	%	MCAWW 160.3 MOD
S-091102-PS-JSS9-S2RR 11/02/09 14:00	**002**			
Aroclor 1254	20 J	39	ug/kg	SW846 8082
Lead	63.4 J	0.35	mg/kg	SW846 6010B
Cadmium	0.32 B	0.59	mg/kg	SW846 6010B
Percent Solids	85.4	10.0	%	MCAWW 160.3 MOD
S-091102-PS-JSS9-B2R 11/02/09 14:00	**003**			
Aroclor 1260	19 J	37	ug/kg	SW846 8082
Lead	110 J	0.34	mg/kg	SW846 6010B
Cadmium	0.50 B	0.56	mg/kg	SW846 6010B
Percent Solids	88.6	10.0	%	MCAWW 160.3 MOD

ANALYTICAL METHODS SUMMARY

A9K030418

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
PCBs by SW-846 8082	SW846 8082
Total Residue as Percent Solids	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

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

SAMPLE SUMMARY

A9K030418

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAM TI
LNPTJ	001	S-091102-PS-JSS9-S2R	11/02/09	14:
LNPTP	002	S-091102-PS-JSS9-S2RR	11/02/09	14
LNPTQ	003	S-091102-PS-JSS9-B2R	11/02/09	14

NOTE(S):

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

Conestoga-Rovers & Associates, Inc.

Resample of JSS9-S2 8' North

Client Sample ID: S-091102-PS-JSS9-S2R

GC Semivolatiles

Lot-Sample #...: A9K030418-001 **Work Order #...:** LNPTJ1AA **Matrix.....:** SO
Date Sampled...: 11/02/09 14:00 **Date Received..:** 11/03/09
Prep Date.....: 11/03/09 **Analysis Date..:** 11/04/09
Prep Batch #...: 9307218
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	39	ug/kg	25
Aroclor 1221	ND	39	ug/kg	19
Aroclor 1232	ND	39	ug/kg	16
Aroclor 1242	ND	39	ug/kg	15
Aroclor 1248	ND	39	ug/kg	20
Aroclor 1254	**21 J**	**39**	**ug/kg**	**20**
Aroclor 1260	ND	39	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	94	(10 - 196)
Decachlorobiphenyl	116	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091102-PS-JSS9-S2R

TOTAL Metals

Lot-Sample #...: A9K030418-001 **Matrix.....:** SO
Date Sampled...: 11/02/09 14:00 **Date Received..:** 11/03/09
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9307284						
Cadmium	**0.34 B**	**0.58**	**mg/kg**	**SW846 6010B**	**11/03-11/04/09**	**LNPTJ1**
		Dilution Factor: 1		MDL.....: 0.042		
Lead	**62.9 J**	**0.35**	**mg/kg**	**SW846 6010B**	**11/03-11/04/09**	**LNPTJ1**
		Dilution Factor: 1		MDL.....: 0.22		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

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

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091102-PS-JSS9-S2R

General Chemistry

Lot-Sample #...: A9K030418-001 Work Order #...: LNPTJ Matrix.....: SO
Date Sampled...: 11/02/09 14:00 Date Received..: 11/03/09
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	85.5	10.0	%	MCAWW 160.3 MOD	11/03-11/04/09	9307363

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc. dup of S2

Client Sample ID: S-091102-PS-JSS9-S2RR

GC Semivolatiles

Lot-Sample #...: A9K030418-002 **Work Order #...:** LNPTP1AA **Matrix.....:** SO
Date Sampled...: 11/02/09 14:00 **Date Received..:** 11/03/09
Prep Date.....: 11/03/09 **Analysis Date..:** 11/04/09
Prep Batch #...: 9307218
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	39	ug/kg	25
Aroclor 1221	ND	39	ug/kg	19
Aroclor 1232	ND	39	ug/kg	16
Aroclor 1242	ND	39	ug/kg	15
Aroclor 1248	ND	39	ug/kg	20
Aroclor 1254	**20 J**	**39**	**ug/kg**	**20**
Aroclor 1260	ND	39	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	109	(10 - 196)
Decachlorobiphenyl	112	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091102-PS-JSS9-S2RR

TOTAL Metals

Lot-Sample #...: A9K030418-002 Matrix.....: SO
Date Sampled...: 11/02/09 14:00 Date Received..: 11/03/09
% Moisture.....: 15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9307284						
Cadmium	0.32 B	0.59	mg/kg	SW846 6010B	11/03-11/04/09	LNPTP1AC
		Dilution Factor: 1		MDL.....: 0.042		
Lead	63.4 J	0.35	mg/kg	SW846 6010B	11/03-11/04/09	LNPTP1AD
		Dilution Factor: 1		MDL.....: 0.22		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

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

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091102-PS-JSS9-S2RR

General Chemistry

Lot-Sample #...: A9K030418-002 **Work Order #...:** LNPTP **Matrix.....:** SO
Date Sampled...: 11/02/09 14:00 **Date Received..:** 11/03/09
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**85.4**	**10.0**	**%**	**MCAWW 160.3 MOD**	**11/03-11/04/09**	**930736?**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Resample of JSS9-B2 2' deep

Client Sample ID: S-091102-PS-JSS9-B2R

GC Semivolatiles

Lot-Sample #...: A9K030418-003 **Work Order #...:** LNPTQ1AA **Matrix.....:** SO
Date Sampled...: 11/02/09 14:00 **Date Received..:** 11/03/09
Prep Date.....: 11/03/09 **Analysis Date..:** 11/04/09
Prep Batch #...: 9307218
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	37	ug/kg	24
Aroclor 1221	ND	37	ug/kg	18
Aroclor 1232	ND	37	ug/kg	16
Aroclor 1242	ND	37	ug/kg	15
Aroclor 1248	ND	37	ug/kg	19
Aroclor 1254	ND	37	ug/kg	19
Aroclor 1260	**19 J**	**37**	**ug/kg**	**19**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	120	(10 - 196)
Decachlorobiphenyl	111	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091102-PS-JSS9-B2R

TOTAL Metals

Lot-Sample #...: A9K030418-003 **Matrix.....:** SO
Date Sampled...: 11/02/09 14:00 **Date Received..:** 11/03/09
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9307284						
Cadmium	**0.50 B**	**0.56**	**mg/kg**	**SW846 6010B**	**11/03-11/04/09**	**LNPTQ1**
		Dilution Factor: 1		MDL.....: 0.041		
Lead	**110 J**	**0.34**	**mg/kg**	**SW846 6010B**	**11/03-11/04/09**	**LNPTQ1**
		Dilution Factor: 1		MDL.....: 0.21		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

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

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-091102-PS-JSS9-B2R

General Chemistry

Lot-Sample #...: A9K030418-003 **Work Order #...:** LNPTQ **Matrix.....:** SO
Date Sampled...: 11/02/09 14:00 **Date Received..:** 11/03/09
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	88.6	10.0	%	MCAWW 160.3 MOD	11/03-11/04/09	9307363

Dilution Factor: 1 MDL.....: 10.0

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A9K030418 **Work Order #...:** LNPV11AA **Matrix.....:** SOLID
MB Lot-Sample #: A9K030000-218

Prep Date.....: 11/03/09
Analysis Date..: 11/04/09 **Prep Batch #...:** 9307218
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	67	(10 - 196)
Decachlorobiphenyl	86	(10 - 199)

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A9K030418 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A9K030000-284 **Prep Batch #...:** 9307284						
Cadmium	ND	0.50	mg/kg	SW846 6010B	11/03-11/04/09	LNP2E1
		Dilution Factor: 1				
Lead	**0.42**	**0.30**	**mg/kg**	**SW846 6010B**	**11/03-11/04/09**	**LNP2E1**
		Dilution Factor: 1				

NOTE(S):

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A9K030418 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #:	LNQD31AA	MB Lot-Sample #:	A9K030000-363	
	ND	10.0	%	MCAWW 160.3 MOD	11/03-11/04/09	9307363
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9K030418 **Work Order #...:** LNPV11AC **Matrix.....:** SOLID
LCS Lot-Sample#: A9K030000-218
Prep Date.....: 11/03/09 **Analysis Date..:** 11/04/09
Prep Batch #...: 9307218
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**77**	**(34 - 127)**	**SW846 8082**
Aroclor 1260	**81**	**(32 - 141)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	66	(10 - 196)
Decachlorobiphenyl	93	(10 - 199)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9K030418 **Work Order #...:** LNPV11AC **Matrix.....:** SOLID
LCS Lot-Sample#: A9K030000-218
Prep Date.....: 11/03/09 **Analysis Date..:** 11/04/09
Prep Batch #...: 9307218
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	**330**	**260**	**ug/kg**	**77**	**SW846 8082**
Aroclor 1260	**330**	**270**	**ug/kg**	**81**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	66	(10 - 196)
Decachlorobiphenyl	93	(10 - 199)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A9K030418 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9K030000-284 **Prep Batch #...:** 9307284					
Cadmium	99	(80 - 120)	SW846 6010B	11/03-11/04/09	LNP2E1AD
		Dilution Factor: 1			
Lead	99	(80 - 120)	SW846 6010B	11/03-11/04/09	LNP2E1AE
		Dilution Factor: 1			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A9K030418 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9K030000-284 **Prep Batch #...:** 9307284							
Cadmium	5.0	5.0	mg/kg	99	SW846 6010B	11/03-11/04/09	LNP2E1AD
			Dilution Factor: 1				
Lead	50.0	49.5	mg/kg	99	SW846 6010B	11/03-11/04/09	LNP2E1AE
			Dilution Factor: 1				

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9K030418 **Work Order #...:** LNKR41AU-MS **Matrix.....:** SOLID
MS Lot-Sample #: A9J300250-001 LNKR41AV-MSD
Date Sampled...: 10/29/09 14:30 **Date Received..:** 10/30/09
Prep Date.....: 11/03/09 **Analysis Date..:** 11/04/09
Prep Batch #...: 9307036
Dilution Factor: 1 **% Moisture.....:** 100

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**45**	**(10 - 199)**			**SW846 8082**
	66 p	**(10 - 199)**	**37**	**(0-30)**	**SW846 8082**
Aroclor 1260	**48**	**(10 - 199)**			**SW846 8082**
	66	**(10 - 199)**	**30**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	77	(10 - 196)
	107	(10 - 196)
Decachlorobiphenyl	582 *	(10 - 199)
	1930 *	(10 - 199)

NOTE(S):

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

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9K030418 **Work Order #...:** LNKR41AU-MS **Matrix.....:** SOLID
MS Lot-Sample #: A9J300250-001 LNKR41AV-MSD
Date Sampled...: 10/29/09 14:30 **Date Received..:** 10/30/09
Prep Date.....: 11/03/09 **Analysis Date..:** 11/04/09
Prep Batch #...: 9307036
Dilution Factor: 1 **% Moisture.....:** 100

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aroclor 1016	**ND**	**330**	**150**	**ug/kg**	**45**		**SW846 8082**
	ND	**330**	**220**	**ug/kg**	**66 p**	**37**	**SW846 8082**
Aroclor 1260	**ND**	**330**	**160**	**ug/kg**	**48**		**SW846 8082**
	ND	**330**	**220**	**ug/kg**	**66**	**30**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	77	(10 - 196)
	107	(10 - 196)
Decachlorobiphenyl	582 *	(10 - 199)
	1930 *	(10 - 199)

NOTE(S):

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

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9K030418 **Work Order #...:** LNPTQ1AF-MS **Matrix.....:** SO
MS Lot-Sample #: A9K030418-003 LNPTQ1AG-MSD
Date Sampled...: 11/02/09 14:00 **Date Received..:** 11/03/09
Prep Date.....: 11/03/09 **Analysis Date..:** 11/04/09
Prep Batch #...: 9307218
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**99**	**(10 - 199)**			**SW846 8082**
	97	**(10 - 199)**	**2.0**	**(0-30)**	**SW846 8082**
Aroclor 1260	**92**	**(10 - 199)**			**SW846 8082**
	88	**(10 - 199)**	**4.0**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	116	(10 - 196)
	103	(10 - 196)
Decachlorobiphenyl	113	(10 - 199)
	108	(10 - 199)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9K030418 **Work Order #...:** LNPTQ1AF-MS **Matrix.....:** SO
MS Lot-Sample #: A9K030418-003 LNPTQ1AG-MSD
Date Sampled...: 11/02/09 14:00 **Date Received..:** 11/03/09
Prep Date.....: 11/03/09 **Analysis Date..:** 11/04/09
Prep Batch #...: 9307218
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aroclor 1016	**ND**	**380**	**370**	**ug/kg**	**99**		**SW846 8082**
	ND	**370**	**370**	**ug/kg**	**97**	**2.0**	**SW846 8082**
Aroclor 1260	**19**	**380**	**360**	**ug/kg**	**92**		**SW846 8082**
	19	**370**	**350**	**ug/kg**	**88**	**4.0**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	116	(10 - 196)
	103	(10 - 196)
Decachlorobiphenyl	113	(10 - 199)
	108	(10 - 199)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A9K030418 **Matrix.....:** SO
Date Sampled...: 11/02/09 14:00 **Date Received..:** 11/03/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A9K030418-003 **Prep Batch #...:** 9307284							
Cadmium	90	(75 - 125)			SW846 6010B	11/03-11/04/09	LNPTQ1AH
	91	(75 - 125)	0.84	(0-20)	SW846 6010B	11/03-11/04/09	LNPTQ1AJ
		Dilution Factor: 1					
Lead	138 N	(75 - 125)			SW846 6010B	11/03-11/04/09	LNPTQ1AK
	136 N	(75 - 125)	0.63	(0-20)	SW846 6010B	11/03-11/04/09	LNPTQ1AL
		Dilution Factor: 1					

NOTE(S):

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

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A9K030418 **Matrix.....:** SO
Date Sampled...: 11/02/09 14:00 **Date Received..:** 11/03/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A9K030418-003 **Prep Batch #...:** 9307284									
Cadmium									
	0.50	5.6	5.6	mg/kg	90		SW846 6010B	11/03-11/04/09	LNPTQ1AH
	0.50	5.6	5.6	mg/kg	91	0.84	SW846 6010B	11/03-11/04/09	LNPTQ1AJ
			Dilution Factor: 1						
Lead									
	110	56.4	188 N	mg/kg	138		SW846 6010B	11/03-11/04/09	LNPTQ1AK
	110	56.4	187 N	mg/kg	136	0.63	SW846 6010B	11/03-11/04/09	LNPTQ1AL
			Dilution Factor: 1						

NOTE(S):

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

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A9K030418 **Work Order #...:** LNLQN-SMP **Matrix.....:** SOLID
LNLQN-DUP

Date Sampled...: 10/29/09 09:23 **Date Received..:** 10/30/09

% Moisture.....: 13

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Percent Solids						SD Lot-Sample #: A9J300352-010		
	87.0	87.1	%	0.14	(0-20)	MCAWW 160.3 MOD	11/03-11/04/09	93073

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A9K030418 **Work Order #...:** LNPTQ-SMP LNPTQ-DUP **Matrix.....:** SO

Date Sampled...: 11/02/09 14:00 **Date Received..:** 11/03/09

% Moisture.....: 11

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A9K030418-003		
	88.6	88.9	%	0.36	(0-20)	MCAWW 160.3 MOD	11/03-11/04/09	9307363

Dilution Factor: 1

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES
Grant Anderson
651-639-0913

SHIPPED TO (Laboratory Name): Test America

REFERENCE NUMBER: 054633

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: Peter Stolic

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	Total Pb	Pb+Cd	Tcl Pb+Cd	1-day TAT	REMARKS
	11/2/09	1400	S-091102-PS-JSS9-S2R	SOIL	2	X	X	X	X X	
			S2RR		2	X	X	X	X X	
			B2R		4	X	X	X	X X	MS/MSD

1-DAY TAT

TOTAL NUMBER OF CONTAINERS | HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY: ① [signature]	DATE: 11-2-09 TIME: 1600	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: Overnight Fed Ex WAY BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Goldenrod —Sampler Copy

SAMPLE TEAM: Stolic

RECEIVED FOR LABORATORY BY: [signature]
DATE: 11/3/09 TIME: 9:10

Nº CRA 22398

1001 (D) APR 28/97(NF) REV. 0 (F-15)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** A9K030418
North Canton Facility

Client CRA Project 54633 By: [signature] (Signature)
Cooler Received on 11-3-09 Opened on 11-3-09
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____
TestAmerica Cooler # C328 Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity _____ Quantity Unsalvageable _____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other _____
6. Cooler temperature upon receipt 3.9 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐ _____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

_____

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 031909-*HNO_3; Sulfuric Acid Lot#* 082509-*H_2SO_4; Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-*$(CH_3COO)_2ZN/NaOH$.* What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant

Discrepancies Cont'd:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Grant Anderson
Conestoga-Rovers & Associates, Inc.
PROJECT NO. 54633
Jefferson Yard

SAMPLE SUMMARY

WO #	LABORATORY ID	SAMPLE IDENTIFICATION	
LNPVQ	A9K030422-001	W-091102-PS-RB3	Rinsate Blank

TESTAMERICA LABORATORIES, INC.

Denise D Heckler

Approved for release.
Denise D. Heckler
Project Manager
11/17/2009 11:08 AM

Denise D. Heckler
Project Manager
denise.heckler@testamericainc.com

November 17, 2009

TestAmerica Laboratories, Inc.
TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720
Tel (330)497-9396 Fax (330)497-0772 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

CASE NARRATIVE

A9K030422

The following report contains the analytical results for one water sample submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the Jefferson Yard Site, project number 54633. The sample was received November 03, 2009, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The sample presented in this report was analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Grant Anderson on November 17, 2009. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 3.9°C.

CASE NARRATIVE (continued)

POLYCHLORINATED BIPHENYLS-8082

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch(es) 9308340. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

The LCS associated with batch(es) 9308340 had recoveries above acceptance criteria, but since the samples were non-detect, no corrective action was needed.

METALS

The matrix spike/matrix spike duplicate(s) for batch(es) 9308014 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

EXECUTIVE SUMMARY - Detection Highlights

A9K030422

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
NO DETECTABLE PARAMETERS				

ANALYTICAL METHODS SUMMARY

A9K030422

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
PCBs by SW-846 8082	SW846 8082
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

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

SAMPLE SUMMARY

A9K030422

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAM TI
LNPVQ	001	W-091102-PS-RB3	11/02/09	14:

NOTE(S):

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

Conestoga-Rovers & Associates, Inc.

Rinsate Blank

Client Sample ID: W-091102-PS-RB3

GC Semivolatiles

Lot-Sample #...: A9K030422-001 **Work Order #...:** LNPVQ1AA **Matrix.....:** WQ
Date Sampled...: 11/02/09 14:00 **Date Received..:** 11/03/09
Prep Date.....: 11/04/09 **Analysis Date..:** 11/05/09
Prep Batch #...: 9308340
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.17
Aroclor 1221	ND	1.0	ug/L	0.13
Aroclor 1232	ND	1.0	ug/L	0.16
Aroclor 1242	ND	1.0	ug/L	0.22
Aroclor 1248	ND	1.0	ug/L	0.10
Aroclor 1254	ND	1.0	ug/L	0.16
Aroclor 1260	ND	1.0	ug/L	0.17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	72	(27 - 130)
Decachlorobiphenyl	20	(10 - 127)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: W-091102-PS-RB3

TOTAL Metals

Lot-Sample #...: A9K030422-001 **Matrix.....:** WQ
Date Sampled...: 11/02/09 14:00 **Date Received..:** 11/03/09

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 9308014						
Cadmium	ND	5.0	ug/L	SW846 6010B	11/04-11/05/09	LNPVQ1
		Dilution Factor: 1		MDL.....: 0.66		
Lead	ND	3.0	ug/L	SW846 6010B	11/04-11/05/09	LNPVQ1A
		Dilution Factor: 1		MDL.....: 1.9		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A9K030422 **Work Order #...:** LNTEG1AA **Matrix.....:** WATER
MB Lot-Sample #: A9K040000-340

Prep Date.....: 11/04/09
Analysis Date..: 11/05/09 **Prep Batch #...:** 9308340
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	1.0	ug/L	SW846 8082
Aroclor 1221	ND	1.0	ug/L	SW846 8082
Aroclor 1232	ND	1.0	ug/L	SW846 8082
Aroclor 1242	ND	1.0	ug/L	SW846 8082
Aroclor 1248	ND	1.0	ug/L	SW846 8082
Aroclor 1254	ND	1.0	ug/L	SW846 8082
Aroclor 1260	ND	1.0	ug/L	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	86	(27 - 130)
Decachlorobiphenyl	66	(10 - 127)

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A9K030422 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A9K040000-014 **Prep Batch #...:** 9308014						
Cadmium	ND	5.0	ug/L	SW846 6010B	11/04-11/05/09	LNRJ21AR
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	11/04-11/05/09	LNRJ21AT
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9K030422 **Work Order #...:** LNTEG1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A9K040000-340 LNTEG1AD-LCSD
Prep Date.....: 11/04/09 **Analysis Date..:** 11/05/09
Prep Batch #...: 9308340
Dilution Factor: 2

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**121 a**	**(44 - 119)**			**SW846 8082**
	101	**(44 - 119)**	**18**	**(0-30)**	**SW846 8082**
Aroclor 1260	**70**	**(41 - 118)**			**SW846 8082**
	77	**(41 - 118)**	**9.1**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	80	(27 - 130)
	90	(27 - 130)
Decachlorobiphenyl	36	(10 - 127)
	41	(10 - 127)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9K030422 **Work Order #...:** LNTEG1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A9K040000-340 LNTEG1AD-LCSD
Prep Date.....: 11/04/09 **Analysis Date..:** 11/05/09
Prep Batch #...: 9308340
Dilution Factor: 2

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aroclor 1016	**10**	**12 a**	**ug/L**	**121**		**SW846 8082**
	10	**10**	**ug/L**	**101**	**18**	**SW846 8082**
Aroclor 1260	**10**	**7.0**	**ug/L**	**70**		**SW846 8082**
	10	**7.7**	**ug/L**	**77**	**9.1**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	80	(27 - 130)
	90	(27 - 130)
Decachlorobiphenyl	36	(10 - 127)
	41	(10 - 127)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A9K030422 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9K040000-014 **Prep Batch #...:** 9308014					
Cadmium	95	(80 - 120)	SW846 6010B	11/04-11/05/09	LNRJ21AX
		Dilution Factor: 1			
Lead	98	(80 - 120)	SW846 6010B	11/04-11/05/09	LNRJ21A0
		Dilution Factor: 1			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A9K030422 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9K040000-014 **Prep Batch #...:** 9308014							
Cadmium	50.0	48.0	ug/L	95	SW846 6010B	11/04-11/05/09	LNRJ21AX
			Dilution Factor: 1				
Lead	500	490	ug/L	98	SW846 6010B	11/04-11/05/09	LNRJ21A0
			Dilution Factor: 1				

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A9K030422 **Matrix.....:** WATER
Date Sampled...: 10/29/09 13:00 **Date Received..:** 11/03/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A9K030541-001 **Prep Batch #...:** 9308014							
Cadmium	120	(75 - 125)			SW846 6010B	11/04-11/05/09	LNQVD1A4
	72 N	(75 - 125)	13	(0-20)	SW846 6010B	11/04-11/05/09	LNQVD1A5
		Dilution Factor: 20					
Lead	100	(75 - 125)			SW846 6010B	11/04-11/05/09	LNQVD1A7
	80	(75 - 125)	14	(0-20)	SW846 6010B	11/04-11/05/09	LNQVD1A8
		Dilution Factor: 20					

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A9K030422 **Matrix.....:** WATER
Date Sampled...: 10/29/09 13:00 **Date Received..:** 11/03/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A9K030541-001 **Prep Batch #...:** 9308014									
Cadmium									
	140	50.0	200	ug/L	120		SW846 6010B	11/04-11/05/09	LNQVD1A4
	140	50.0	170 N	ug/L	72	13	SW846 6010B	11/04-11/05/09	LNQVD1A5
			Dilution Factor: 20						
Lead									
	290	500	790	ug/L	100		SW846 6010B	11/04-11/05/09	LNQVD1A7
	290	500	690	ug/L	80	14	SW846 6010B	11/04-11/05/09	LNQVD1A8
			Dilution Factor: 20						

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES Grant Anderson 651-639-0913	SHIPPED TO (Laboratory Name): Test America	REFERENCE NUMBER: 054633

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: Peter Storlie

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS	PCB	T. Pb+Cd				STANDARD TAT				REMARKS
	11/2/09	1400	W-091102-PS-RB3	water	2		X	X				X				

TOTAL NUMBER OF CONTAINERS 2 HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY: ① [signature]	DATE: 11/2/09 TIME: 1600	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: Fed Ex Overnight WAY BILL No.

White Yellow Pink Goldenrod	—Fully Executed Copy —Receiving Laboratory Copy —Shipper Copy —Sampler Copy	SAMPLE TEAM: Storlie	RECEIVED FOR LABORATORY BY: [signature] DATE: 11/3/09 TIME: 9:10

№ CRA 22179

1001 (D) APR 28/97(NF) REV. 0 (F-15)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** A9K030422
North Canton Facility

Client CRA Project 54633 By: Chris Lingel
Cooler Received on 11-3-09 Opened on 11-3-09 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____
TestAmerica Cooler # C328 Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity _____ Quantity Unsalvageable _____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other _____
6. Cooler temperature upon receipt 3.9 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐ _____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☒ No ☐ NA ☐
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

_____

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 031909-HNO_3; *Sulfuric Acid Lot#* 082509-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials
RB3	<2	11/3/09	CSL

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant

Discrepancies Cont'd:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

APPENDIX G

BACKFILL CERTIFICATION INFORMATION

Quality Aggregates
of Illinois, LLC

PO Box 558, Cherry Valley, IL 61016 - 815-332-5001 - Fax 815-332-5335

October 27, 2009

Gene Kus
RA Seaton
2355 Newburg Rd
Belvidere, IL 61008

Fax - 815-547-7766

Re: QC, Elgin, IL

Dear Gene,

This letter is written to certify that material that RA Seaton hauls from our quarry located at 2758 Wheeler Rd, Cherry Valley, IL is 100% virgin dolomitic limestone containing no chemical additives.

Our Illinois Department of Transportation producer number is 50072-04 and the CA-6 that you haul is IDOT approved.

If you have any questions or require additional information, please do not hesitate to call.

~~Very Truly~~ Yours,

Daniel H. Fischer
Managing Member

Report for Illinois Department of Transportation

MISTIC ID

AGGREGATE GRADATION REPORT

Report By:
Company: Quality Aggregates of Illinois, LLC

Inspector No.:	920000000	Name: M. J. Manning	Date Sampled: 10/20/09	Seq No:	SPLIT
Mix Plant No.:		Name:		Contract No:	Job No.:
Responsible Loc:	92	Lab: IL	Lab Name: QC Solutions	Source Name:	Quality Aggregates of IL.

SOURCE	MATL CODE	TYPE INSP	ORIGINAL ID	SPEC	ART	SAMPLED FROM	WASH DRY
540072-04	002CA06	PRO		Spec P.	1004.01	SP	W

SIEVE IN	3	2.5	2	1.75	1.5	1	3/4	5/8	1/2	3/8	#4	#8	#16	#30	#40	#50	#100	#200
MM	75	63	50	45	37.5	25	19	15.9	12.5	9.5	4.75	2.36	1.18	.6	.425	.3	.15	.075
PASS %					100	100	97	89	78	68	47	34	27	22	21	19	14	9

WASH 200	RESULT	REMARK
8.5	APPR	Production Core Load-Out

SIEVE English	SIEVE Metric	Indiv. Wt Retained	Accum Weights	Accum Passing	Pct Passing	Spec Min	Spec Max	Out Flag	Rounded Passing
3	75								
2.5	63								
2	50								
1.75	45								
1.5	37.5	0			100.0		100	IN	100
1	25	0			100.0	90	100	IN	100
3/4	19	198.6	198.6	3.5	96.5				97
5/8	15.9	457.85	656.5	11.4	88.6				89
1/2	12.5	589.4	1245.9	21.7	78.3	60	90	IN	78
3/8	9.5	568.4	1814.3	31.6	68.4				68
1/4	6.3	814.9	2629.2	45.9	54.1				54
#4	4.75	413.0	3042.2	53.1	46.9	30	56	IN	47
#8	2.36	757.2	3799.4	66.3	33.7				34
#10	2								
#16	1.18	412.2	4211.6	73.5	26.5	10	40	IN	27
#30	0.6	241.3	4452.9	77.7	22.3				22
#40	0.425	100.2	4553.1	79.4	20.6				21
#50	0.3	113.3	4666.4	81.4	18.6				19
#60	0.18								
#100	0.15	289.5	4955.9	86.4	13.6				14
#200	0.075	260.0	5215.9	91.0	9.0	4	12	IN	9
Pan		25.3							
Tot Dry Wt.		5733.3							
Tot Wash Wt.		5243.3							
Diff (-.075)		490							

Wash % 8.55

Orig. Wet Weight: 5025.3 Moisture %: 5.0931

(#200 / #40): 0.4369

% Washed -200: 8.546561

(Mix Plant Only)

Lot:

Bin:

Tech/Insp: M. J. Manning Signature: Mark J. Manning

Tested By: Karl Jacobson Signature: Karl Jacobson

Agency: QC Solutions

Copies to: Quality Aggregates
IDOT
File (06004)

Validity Check OK

Report Date: October 21, 2009
/FO R DTY03504
MIS 04QC Excel Ver 2.0

(This is a Field/Laboratory Report for MISTIC input)

APPENDIX H

BUILDING DEBRIS -
WASTE PROFILE/MANIFEST/SCALE TICKETS

VEOLIA
ENVIRONMENTAL SERVICES

Profile #:

Special Waste Profile Sheet

Designated Facility: **Orchard Hills Landfill** Sales Representative:

A. Generator

Name:	City of Elgin
Site Address:	20 Jefferson Ave
City, State, Zip:	Elgin, IL 60120
Contact:	William A. Cogley
Phone:	847-931-5659
Fax:	847-931-5665

B. Billing

Name:	EQ-The Environmental Quality Company
Address:	36255 Michigan Ave.
City, State, Zip:	Wayne, MI 48184
Contact:	Ron Evenson
Phone:	630-688-0123
Fax:	630-208-9165

C. Description of Waste

Name of Waste: **Non-hazardous debris from remedial actions**

Process Generating Waste: *Site remedial activities from former scrap yard cleanup*

Estimated Volume: *250 Tons* *Frequency:* *One-time*

Special Handling Instructions:

D. Chemical Composition/Physical Properties

Constituents	Concentration
Debris (wood, block, brick, tin sheeting, rock, PPE)	100%

Physical State:	*Solid*	*Color:*	*Varies*
Free Liquids:	*None*	*Flashpoint:*	*N/A*
pH:	*5-10*	*Total Solids:*	*100*
Reactive Cyanide:	n/a	*Reactive Sulfide:*	n/a

F. Sample/Analysis Information

☐ *Sample submitted with profile* ■ *Laboratory analysis submitted* ☐ *Material Data Safety Sheet submitted*

Laboratory Name: *Test America* *Sample Date:* *11/18/08* *Sample ID:* *varies*

G. Generator Certifications

1. *This waste is not a hazardous waste as defined by federal, state, or local laws and regulations.*
2. *This waste does not contain regulated quantities of PCBs as defined by federal, state or local laws and regulations.*
3. *This waste does not contain infectious wastes as defined by federal, state, or local laws and regulations.*
4. *To the best of my knowledge, all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any analysis submitted was performed on a representative sample as defined in 40 CFR 261 -Appendix 1 and was obtained by using this or an equivalent sampling method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed.*

Generator's Signature: ***Title:***

Print Name: ***Date:***

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

Grant Anderson
Conestoga-Rovers & Assoc.,Inc.
PROJECT NO. 54633
ELGIN-JEFFERSON YARD

SAMPLE SUMMARY

WO #	LABORATORY ID	SAMPLE IDENTIFICATION	
K284P	A8K190212-001	S-111808-KW-045	SB-15 0-0.5'*
K2842	A8K190212-002	S-111808-KW-046	SB-15 2-2.5'*
K2845	A8K190212-003	S-111808-KW-047	SB-15 3-3.5'*
K285C	A8K190212-004	S-111808-KW-048	SB-18 0-0.5'*
K285E	A8K190212-005	S-111808-KW-049	SB-18 1-1.5'*
K285F	A8K190212-006	S-111808-KW-050	SB-12 0-0.5'*
K285G	A8K190212-007	S-111808-KW-051	SB-12 1-1.5'*
K285J	A8K190212-008	S-111808-KW-052	SB-16 2-2.5'*
K285M	A8K190212-009	S-111808-KW-053	SB-16 2-2.5' (dup)*
K285P	A8K190212-010	S-111808-KW-054	SB-16 3-3.5'*
K285R	A8K190212-011	R-111808-KW-056	Rinsate*
K285X	A8K190212-012	D-111808-KW-055	North debris*
K2856	A8K190212-013	D-111808-KW-057	North debris

TESTAMERICA LABORATORIES, INC.

Amy L. McCormick
Project Manager

December 5, 2008

CASE NARRATIVE

A8K190212

The following report contains the analytical results for eight solid samples and one water sample submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the Elgin-Jefferson Yard Site, project number 54633. The samples were received November 19, 2008, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Grant Anderson on December 02, 2008 and December 03, 2008. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

Any reference within this document to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.)

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Amy L. McCormick, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT." The total number of pages in this report is 83.

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 1.2°C.

POLYCHLORINATED BIPHENYLS-8082

The matrix spike/matrix spike duplicate(s) for S-111808-KW-045 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch(es) 8325153. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The matrix spike/matrix spike duplicate(s) for S-111808-KW-045 and S-111808-KW-048 had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

The matrix spike/matrix spike duplicate(s) for batch(es) 8325024 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

Leachate methods require that 100 grams of sample be tumbled with two thousand milliliters of the appropriate buffer. For these samples, less than 100 grams of sample were received. When sample leaching was performed, the amount of buffer added was reduced to maintain the 1:20 sample-to-buffer ratio.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

EXECUTIVE SUMMARY - Detection Highlights

A8K190212

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-111808-KW-045 11/18/08 08:25 001				
Arcclor 1254	3000	370	ug/kg	SW846 8082
Lead	135	0.34	mg/kg	SW846 6010B
Cadmium	3.6	0.57	mg/kg	SW846 6010B
Percent Solids	88.3	10.0	%	MCAWW 160.3 MOD
S-111808-KW-046 11/18/08 08:25 002				
Lead	57.4	0.34	mg/kg	SW846 6010B
Cadmium	0.67	0.57	mg/kg	SW846 6010B
Percent Solids	88.3	10.0	%	MCAWW 160.3 MOD
S-111808-KW-048 11/18/08 08:40 004				
Aroclor 1254	50	35	ug/kg	SW846 8082
Lead	4.3	0.32	mg/kg	SW846 6010B
Cadmium	0.16 B	0.53	mg/kg	SW846 6010B
Percent Solids	93.8	10.0	%	MCAWW 160.3 MOD
S-111808-KW-050 11/18/08 09:00 006				
Aroclor 1254	100	35	ug/kg	SW846 8082
Lead	6.3	0.32	mg/kg	SW846 6010B
Cadmium	0.15 B	0.54	mg/kg	SW846 6010B
Percent Solids	93.4	10.0	%	MCAWW 160.3 MOD
S-111808-KW-052 11/18/08 09:15 008				
Aroclor 1254	250	68	ug/kg	SW846 8082
Lead	9.1	0.31	mg/kg	SW846 6010B
Cadmium	0.11 B	0.52	mg/kg	SW846 6010B
Percent Solids	96.4	10.0	%	MCAWW 160.3 MOD
S-111808-KW-053 11/18/08 09:15 009				
Aroclor 1254	480	170	ug/kg	SW846 8082
Lead - TCLP	1.5	0.50	mg/L	SW846 6010B
Lead	60.3	0.31	mg/kg	SW846 6010B
Cadmium	0.51 B	0.52	mg/kg	SW846 6010B
Percent Solids	96.2	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8K190212

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
D-111808-KW-055 11/18/08 09:20 012				
Aroclor 1254	410	45	ug/kg	SW846 8082
Percent Solids	73.6	10.0	%	MCAWW 160.3 MOD
D-111808-KW-057 11/18/08 16:00 013				
Percent Solids	34.2	10.0	%	MCAWW 160.3 MOD

ANALYTICAL METHODS SUMMARY

A8K190212

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
PCBs by SW-846 8082	SW846 8082
Total Residue as Percent Solids	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

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

SAMPLE SUMMARY

A8K190212

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAM TI
K284P	001	S-111808-KW-045	11/18/08	08:2
K2842	002	S-111808-KW-046	11/18/08	08
K285C	004	S-111808-KW-048	11/18/08	08
K285F	006	S-111808-KW-050	11/18/08	09:0
K285J	008	S-111808-KW-052	11/18/08	09
K285M	009	S-111808-KW-053	11/18/08	09
K285R	011	R-111808-KW-056	11/18/08	09:0
K285X	012	D-111808-KW-055	11/18/08	09:2
K2856	013	D-111808-KW-057	11/18/08	16

NOTE (S) :

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

Conestoga-Rovers & Associates, Inc.

North debris

Client Sample ID: D-111808-KW-055

GC Semivolatiles

Lot-Sample #...: A8K190212-012 **Work Order #...:** K285X1AA **Matrix.....:** SO
Date Sampled...: 11/18/08 09:20 **Date Received..:** 11/19/08
Prep Date.....: 11/20/08 **Analysis Date..:** 11/24/08
Prep Batch #...: 8325418
Dilution Factor: 1
% Moisture.....: 26 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	45	ug/kg
Aroclor 1221	ND	45	ug/kg
Aroclor 1232	ND	45	ug/kg
Aroclor 1242	ND	45	ug/kg
Aroclor 1248	ND	45	ug/kg
Aroclor 1254	**410**	**45**	**ug/kg**
Aroclor 1260	ND	45	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	66	(10 - 196)
Decachlorobiphenyl	70	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

North debris

Client Sample ID: D-111808-KW-055

General Chemistry

Lot-Sample #...: A8K190212-012 **Work Order #...:** K285X **Matrix.....:** SO
Date Sampled...: 11/18/08 09:20 **Date Received..:** 11/19/08
% Moisture.....: 26

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	73.6	10.0	%	MCAWW 160.3 MOD	11/25-11/26/08	8330491

Dilution Factor: 1

Conestoga-Rovers & Associates, Inc.

North debris

Client Sample ID: D-111808-KW-057

GC Semivolatiles

Lot-Sample #...: A8K190212-013 **Work Order #...:** K28561AA **Matrix.....:** SO
Date Sampled...: 11/18/08 16:00 **Date Received..:** 11/19/08
Prep Date.....: 11/20/08 **Analysis Date..:** 11/24/08
Prep Batch #...: 8325418
Dilution Factor: 1
% Moisture.....: 66 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	97	ug/kg
Aroclor 1221	ND	97	ug/kg
Aroclor 1232	ND	97	ug/kg
Aroclor 1242	ND	97	ug/kg
Aroclor 1248	ND	97	ug/kg
Aroclor 1254	ND	97	ug/kg
Aroclor 1260	ND	97	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	68	(10 - 196)
Decachlorobiphenyl	65	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: D-111808-KW-057

north debris

TCLP Metals

Lot-Sample #...: A8K190212-013 **Matrix.....:** SO
Date Sampled...: 11/18/08 16:00 **Date Received..:** 11/19/08
Leach Date.....: 11/24/08 **Leach Batch #..:** P832907

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8330012						
Cadmium	ND	0.10	mg/L	SW846 6010B	11/25/08	K28561AC
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010B	11/25/08	K28561A
		Dilution Factor: 1				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

north debris

Client Sample ID: D-111808-KW-057

General Chemistry

Lot-Sample #...: A8K190212-013 Work Order #...: K2856 Matrix.....: SO
Date Sampled...: 11/18/08 16:00 Date Received..: 11/19/08
% Moisture.....: 66

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	34.2	10.0	%	MCAWW 160.3 MOD	11/25-11/26/08	8330491

Dilution Factor: 1

CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631
(773)380-9933 phone
(773)380-6421 fax

CHAIN-OF-CUSTODY RECORD

SHIPPED TO (Laboratory Name): Test America North Canton

REFERENCE NUMBER: 54633

PROJECT NAME: Elgin-Jefferson Yard

SAMPLER'S SIGNATURE: [signature] **PRINTED NAME:** K. White

SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: Pb, Cd, PCB	TCLP Pb, Cd	PCB							REMARKS
	11/18/08	825	S-111808-KW-045	S.	2	X	X								MS/MSD
		825	-046		2	X	X								
		825	-047		2	X	X								HOLD
		840	-048		2	X	X								MS/MSD
		840	-049		2	X	X								HOLD
		900	-050		2	X	X								
		900	-051		2	X	X								HOLD
		915	-052		2	X	X								
		915	-053		2	X	X								
		915	-054		2	X	X								HOLD
		905	R-111808-KW-056	LW	3	X	X								
		920	D-111808-KW-055	Debris	2	X	X	X							debris
			temp blank		1										
	11/18/08	160	D-111808-KW-057	Debris	2		X	X							debris
			TOTAL NUMBER OF CONTAINERS		28										

RELINQUISHED BY: ① [signature]	DATE: 11/18/08 TIME: 1800	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Fed EX **AIR BILL No.** 9053 4270 5734

White -Fully Executed Copy
Yellow -Receiving Laboratory Copy
Pink -Shipper Copy
Goldenrod -Sampler Copy

SAMPLE TEAM: K. White

RECEIVED FOR LABORATORY BY: [signature]
DATE: 11-19-08 TIME: 9:15

004014

1001-00(SOURCE)GN-CO004

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ILR 000 018 637
2. Page 1 of
3. Emergency Response Phone
4. Manifest Tracking Number: 001901463 JJK

5. Generator's Name and Mailing Address
City of Elgin
150 Dexter Court
Elgin, IL 60120
847-931-6059

Generator's Site Address (if different than mailing address)
20 Jefferson Ave
Elgin, IL

Generator's Phone:

6. Transporter 1 Company Name: RA Sexton
U.S. EPA ID Number

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Veolia Orchard Hills Landfill
8270 Hwy 251
Davis Junction, IL 61020
U.S. EPA ID Number

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non Hazardous Debris Non Special Waste	1	ED			
	2. 738210					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Approval OHL 00713

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: MARK WILSON As Agent for City of Elgin
Signature: Mark Wilson
Month 10 Day 22 Year 09

GENERATOR

INT'L

16. International Shipments ☐ Import to U.S. ☑ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible]
Signature: [illegible]
Month 10 Day 22 Year 09

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name
Signature
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

RA 270

30-293 Debris 2

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ILR 000 048 637
2. Page 1 of
3. Emergency Response Phone
4. Manifest Tracking Number: 001901462 JJK

5. Generator's Name and Mailing Address: City of Elgin, 150 Dexter Court, Elgin, IL 60120
Generator's Phone: 847 931-5657
Generator's Site Address (if different than mailing address): 20 Jefferson Ave, Elgin IL 60120

6. Transporter 1 Company Name: Veolia ES
U.S. EPA ID Number:

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Veolia Orchard Hills Landfill, 8290 Hwy 251, Davis Junction IL 61020
Facility's Phone: 815 874 9000
U.S. EPA ID Number:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non Hazardous Debris Non Special Waste 739454	1	Soil roll off			
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: Approval OHL 007413-816

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Mark Wilson As Agent for City of Elgin
Signature: Mark Wilson
Month 10 Day 26 Year 09

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Matt Butler
Signature: Matt Butler
Month Day Year
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: [signature]
Signature: [signature]
Month Day Year

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

30-182 Debris 3

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ILR 000 048 637
2. Page 1 of
3. Emergency Response Phone
4. Manifest Tracking Number: 001901464 JJK

5. Generator's Name and Mailing Address: City of Elgin, 150 Dexter Court, Elgin IL 60120, 847-931-5659
Generator's Site Address (if different than mailing address): 20 Jefferson Ave, Elgin IL 60120
Generator's Phone:

6. Transporter 1 Company Name: Veolia ES
U.S. EPA ID Number:

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Veolia Orchard Hills Landfill, 8290 Hwy 251, Davis Junction IL 61020, 815 874-9000
U.S. EPA ID Number:
Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non Hazardous Debris Non-Special Waste	1	30 cubic yd CB			
	2.					
	3.					
	4.					

739466

14. Special Handling Instructions and Additional Information: Approval OHL 00743-816

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Mark Wilson As Agent for City of Elgin
Signature: Mark Wilson
Month 10 Day Year

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: ED WELLS
Signature: E. Wells
Month Day Year
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: [signature]
Signature: [signature]
Month 10 Day 20 Year 09

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Debris 4

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ILR 000 048 637
2. Page 1 of
3. Emergency Response Phone
4. Manifest Tracking Number: 001901465 JJK

5. Generator's Name and Mailing Address: City of Elgin, 1501 Dundee Ct, Elgin IL 60120
Generator's Phone: 847-931 5659
Generator's Site Address (if different than mailing address): 20 Jefferson Ave, Elgin IL 60120

6. Transporter 1 Company Name: Veolia ES
U.S. EPA ID Number:

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Veolia Orchard Hills Landfill, 8290 Hwy 251, Davis Junction, IL 61020
Facility's Phone: 815 874 9000
U.S. EPA ID Number:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non Hazardous Debris Non-Special Waste 2.15	1	30yd Roll off cm			
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Approved OHL 00743

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Mark Wilson as Agent for City of Elgin
Signature: Mark Wilson
Month 10 Day 27 Year 09

16. International Shipments ☐ Import to U.S. ☑ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: ED WELLS
Signature: E. Wells
Month 10 Day 27 Year 0
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Y

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name:
Signature:
Month 10 Day 27 Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: LISA
Ticket: 738816 [Reprint]
22 October 2009 1:30 pm
22 October 2009 1:48 pm
Vehicle: RA330

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00743

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 1901463

KANE CTY/IL

Gross Weight	37,800.00	lb	
Stored Tare Weight	33,400.00	lb	
Net Weight	4,400.00	lb	2.20 TN

Quantity	Unit	Description		Rate	Total
2.20	TN	X9	Ext-Tax Exempt Special Waste Ext		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: LISA
Ticket: 739454 [Reprint]
26 October 2009 12:25 am
26 October 2009 12:48 am
Vehicle: ON06003-30

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00743

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 1901462

KANE CTY/IL

Gross Weight	54,580.00	lb	
Tare Weight	35,560.00	lb	
Net Weight	19,020.00	lb	9.51 TN

Quantity	Unit	Description		Rate	Total
9.51	TN	X9	Ext-Tax Exempt Special Waste Ext		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: LISA
Ticket: 739466 [Reprint]
26 October 2009 12:58 am
26 October 2009 1:18 pm
Vehicle: ON06001-30 ROCKFORD HAULING

000816
I-Q INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00743

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 1901464 KANE CTY/IL

Gross Weight	49,580.00	lb	
Tare Weight	33,820.00	lb	
Net Weight	15,760.00	lb	7.88 TN

Quantity	Unit	Description		Rate	Total
7 88	TN	X9	Ext-Tax Exempt Special Waste Ext		

Net Amount.

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: LISA
Ticket: 739640 [Reprint]
27 October 2009 8:31 am
27 October 2009 8:52 am

000816
Vehicle: ON06001-30 ROCKFORD HAULING

FQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00743

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 1901465 KANE CTY/IL

Gross Weight	46,860.00	lb	
Tare Weight	34,560.00	lb	
Net Weight	12,300.00	lb	6 15 TN

Quantity	Unit	Description		Rate	Total
6.15	TN	X9	Ext-Tax Exempt Special Waste Ext		

Net Amount:

APPENDIX I

TSCA WASTE -
WASTE PROFILE/MANIFEST/SCALE TICKETS

EQ - The Environmental Quality Company
Waste Characterization Report

I authorize EQ - The Environmental Quality Company to choose the appropriate method of waste management, from the technologies offered, at the EQ facilities identified below.

	Michigan Disposal Waste Treatment Plant (Stabilization and Treatment)	49350 North I-94 Service Drive, Belleville, Michigan 48111 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID000724831
✓	**Wayne Disposal, Inc.** (Hazardous & PCB Waste Landfill)	49350 North I-94 Service Drive, Belleville, Michigan 48111 Phone: 1-800-592-5489 Fax: 1-800-592-5329	EPA ID #MID048090633
	EQ Detroit, Inc. (Stabilization, Wastewater Treatment)	1923 Frederick, Detroit, MI 48211 Phone: 1-800-495-6059 Fax: 1-313-923-3375	EPA ID #MID980991566
	EQ Resource Recovery, Inc. (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, Michigan 48174 Phone: (734) 727-5500 Fax: (734) 326-4033	EPA ID #MID060975844
	EQ Florida, Inc. (Drum Consolidation, Labpack Decommissioning)	7202 East Eighth Ave., Tampa, FL 33619 Phone: 1-800-624-5302 Fax: 1-813-628-0842	EPA ID #FLD981932494
	EQ Detroit Transfer and Processing (Drum Transfer/Universal Waste Handling)	2000 Ferry Street, Detroit, MI 48211 Phone: (313) 923-0080 Fax: (313) 922-8419	EPA ID #MIK939928313
	EQIS Indianapolis Transfer and Processing (Drum Transfer/Non-Hazardous Waste Processing)	2650 N. Shadeland Avenue, Indianapolis, IN 46219 Phone: (317) 247-7160 Fax: (317) 247-7170	EPA ID #IND161049309
	EQIS Atlanta Transfer and Processing (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd., Atlanta, Georgia 30336 Phone: (404) 494-3520 Fax: (404) 494-3560	EPA ID #GAR000039776
	EQ Augusta, Inc. (Wastewater Treatment)	3920 Goshen Industrial Blvd., Augusta, GA 30906 Phone: 706-771-9100 Fax: 706-771-9124	EPA ID #GAR000011817

Waste Common Name: TSCA soil

Section 1 - Generator & Customer Info

SIC/NAICS*:

Generator EPA ID: ILR-000-048-637

Generator: City of Elgin
Address: 20 Jefferson Ave
City: Elgin
State: IL Zip: 60120
County: Kane

Mailing Address
Address: 150 Dexter Court
City: Elgin
State: IL Zip: 60120

Generator Contact
Name: William A Cogley
Title: Corporate Counsel
Phone: (847) 931-5659
Fax: (847) 931-5665

*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.

EQ Customer No.: 99999

Invoicing Company
Company: EQIS - PMG
Address: TRANSPORTATION & SITE SERVICES 2701 NORT
City: YPSILANTI
State: MI Zip: 48198
Country: USA

Invoicing Contact
Name: Ron Evenson
Phone: (630) 208-9160
Fax: (630) 208-9165

Technical Contact
Name: Ron Evenson
Phone: (630) 208-9160
Fax: (630) 208-9165
Mobile: (630) 688-0123 Pager: ( ) -
E-mail: ron.evenson@eqonline.com

Section 2 - Shipping & Packaging Info

2.1) Shipping Volume & Unit: 286 tons Frequency: One Time Only

2.2) DOT Shipping Name: UN3432, Polychlorinated biphenyls, solid, 9, PGII

2.3) Is this waste surcharge exempt? Yes ● No (If you answered "Yes" to question 2.3, select the Surcharge Exemption reason.)

2.4) Packaging (check all that apply)

Bulk Solid (yd^3 < 2000 lbs/yd^3)	✓ Bulk Solid (Ton > 2000 lbs./yd^3)	Bulk Liquids (Gallon)
Totes, Size	Cubic Yard Boxes/Bags	Drums, Size
Other (palletized, 5 gal. Pail, etc.)		

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Section 3 - Physical Characteristics

3.1) Color: BLACK/BROWN, GRAY/BROWN 3.2) Odor: none

3.3) Does this waste contain any "Potentially Odorous Constituents" as defined in the EQ Resource Guide? (Section 3) Yes ● No

3.4) Physical State at 70 °F:	✓ Solid	Dust/Powder	Liquid	Sludge	
3.5) What is the pH of this waste?	≤ 2	2.1-4.9	✓ 5-10	10.1-12.4	≥ 12.5
3.6) What is the flash point of this waste?	<90 °F	90-139 °F	140-199 °F	● ≥ 200 °F	

3.7) Does this waste contain? **(check all that apply)**

	None	Free Liquids	Oily Residue	Metal Fines	
Biodegradable Sorbants	Amines	Ammonia	Water Reactive	Biohazard	Aluminum
Shock Sensitive Waste	Reactive Waste	Radioactive Waste	Explosives	Pyrophoric Waste	Isocyanates
Asbestos - non-friable	Asbestos - friable	✓ Dioxins	Furans		

Section 4 - Composition / Generating Process

4.1) Describe the physical composition of the waste (i.e., soil, water, PPE, debris, key chemical compounds, etc.)

misc debris, concrete, rock, trash, etc	from	0.	to	5. %
soil	from	95.	to	100. %

4.2) Provide a detailed description of the process generating this waste. (attach flow diagram if available).

excavation of PCB contaminated soil from remediation activities at former scrap yard.

Section 5 - Is This Hazardous Waste?

Please refer to Section 5 of the EQ Resource Guide for a list of waste codes.

As determined by 40 CFR, Part 261 and Michigan Act 451 Rules: **Please list applicable waste code(s):**

5.1) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? Yes ● No

Comments:

5.2) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? Yes ● No

Comments:

5.3) Do any State Hazardous Waste Codes apply? Yes ● No

Comments: PCB1

5.4) Is this waste intended for wastewater treatment? Yes* ● No

If you answered "No" to questions 5.1, 5.2, and 5.3, please skip to Section 7.
****If you answered "Yes" to question 5.4, please complete the WCR Addendum.***

Section 6 - Hazardous Wastes

6.1) Does this waste exceed Land Disposal Restriction Levels? Yes No

6.1a) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40 CFR 268.49? Yes No

6.1b) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) Yes No

6.2) Is the waste an oxidizer (D001)? Yes No

6.3) Does this waste contain reactive cyanide ≥ 250 ppm (D003)? Yes No

6.4) Does this waste contain reactive sulfide ≥ 500 ppm (D003)? Yes No

6.5) Please indicate which constituent concentrations are below or above the regulatory level. Please indicate the basis used in the determination. Either 'Below' or 'Above' **MUST** be checked for each constituent.

Based On: **Generator Knowledge** **Analysis*** **MSDS***

***Please forward a copy. Analysis or MSDS are required for EQ Florida Non-hazardous wastes.**

Code	Regulatory Level TCLP (mg/l)				Concentration (if above)
D004	Arsenic	5	Below	Above	
D005	Barium	100	Below	Above	
D006	Cadmium	1	Below	Above	
D007	Chromium	5	Below	Above	
D008	Lead	5	Below	Above	
D009	Mercury	0.2	Below	Above	
D010	Selenium	1	Below	Above	
D011	Silver	5	Below	Above	
D012	Endrin	0.02	Below	Above	
D013	Lindane	0.4	Below	Above	
D014	Methoxychlor	10	Below	Above	
D015	Toxaphene	0.5	Below	Above	
D016	2,4-D	10	Below	Above	
D017	2,4,5-TP (Silvex)	1	Below	Above	
D018	Benzene	0.5	Below	Above	
D019	Carbon Tetrachloride	0.5	Below	Above	
D020	Chlordane	0.03	Below	Above	
D021	Chlorobenzene	100	Below	Above	
D022	Chloroform	6.0	Below	Above	
D023	o-Cresol	200	Below	Above	

Code	Regulatory Level TCLP (mg/l)				Concentration (if above)
D024	m-Cresol	200	Below	Above	
D025	p-Cresol	200	Below	Above	
D026	Cresols	200	Below	Above	
D027	1,4-Dichlorobenzene	7.5	Below	Above	
D028	1,2-Dicholoroethane	0.5	Below	Above	
D029	1,1-Dichloroethylene	0.7	Below	Above	
D030	2,4-Dinitrotoluene	0.13	Below	Above	
D031	Heptachlor	0.008	Below	Above	
D032	Hexachlorobenzene	0.13	Below	Above	
D033	Hexachlorobutadiene	0.5	Below	Above	
D034	Hexachloroethane	3.0	Below	Above	
D035	Methyl Ethyl Ketone	200	Below	Above	
D036	Nitrobenzene	2	Below	Above	
D037	Pentachlorophenol	100	Below	Above	
D038	Pyridine	5	Below	Above	
D039	Tetrachloroethylene	0.7	Below	Above	
D040	Trichloroethylene	0.5	Below	Above	
D041	2,4,5-Trichlorophenol	400	Below	Above	
D042	2,4,6-Trichlorophenol	2	Below	Above	
D043	Vinyl Chloride	0.2	Below	Above	

6.6) If this is a characteristic hazardous waste, does it contain underlying hazardous constituents? Yes No

If you answered 'Yes', please list the constituents in Section 11.

Section 7 - Non-Hazardous Wastes

For a complete list of non-hazardous waste codes, please refer to Section 7 of the EQ Resource Guide.

Applicable waste code(s):

7.1) Is this a Michigan non-hazardous liquid industrial waste? Yes ● No

Comments:

7.2) Is this a Universal waste? Yes ● No

7.3) Is this a Recyclable Commodity? (e.g.: computer monitors, free mercury, etc.) Yes ● No

7.4) Is this waste a recoverable petroleum product? Yes ● No

7.5) Is this waste used oil as defined by 40 CFR Part 279? Yes ● No

Section 8 - TSCA Information

8.1) What is the concentration of PCBs in the waste? None | 0-5 ppm | 6-49 ppm | 50-499 ppm | ● 500+ ppm

8.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ● Yes No

If you answered 'None' to 8.1 and 'No' to 8.2, please skip to Section 9.

8.3) Has this waste been processed into a non-liquid form? Yes ● No

If yes, what was the concentration of PCBs prior to processing? (ppm) ● N/A 0-499 500+

8.4) Is the non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ● Yes No

8.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? Yes ● No

8.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ● N/A Yes No

Section 9 - Clean Air Act Information

9.1) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD or 40 CFR, Part 264, Subpart CC (RCRA)? Yes ● No
(Does the waste contain >500 ppm Volatile Organic Hazardous Air Pollutants - VOHAP's or Volatile Organic Compounds - VOC's?)
For a complete list of VOHAPs, please see Section 11 of the EQ Resource Guide.

9.2) Is this site, or waste, subject to any other MACT or NESHAP? Yes ● No
If yes, please specify:

9.3) Does this waste stream contain Benzene? Yes ● No
If you answered "No" to question 9.2, please skip to section 10.

9.4) Does the waste stream come from a facility with one of the SIC/NAICS codes listed under the Benzene NESHAP identified in 40 CFR 61, Subpart FF? Yes ● No

9.5) Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) ≥ 10 Mg/year? Yes ● No
For assistance in calculating the TAB, please see the TAB Worksheet in Section 9 of the EQ Resource Guide.

If you answered "No" to question 9.3 <u>and</u> 9.4, please skip to Section 10.

9.6) Does the waste contain > 10% water? Yes ● No

9.7) What is the TAB quantity for your facility? Mg/year

9.8) Does the waste contain >1.0 mg/kg total Benzene? Yes ● No

9.9) What is the total Benzene concentration in your waste? (concentration) (unit)

(Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.)

*For a list of NAICS codes, please refer to section 9 of the EQ Resource Guide.

Section 10 - Fuel Blending Information

10.1) Is this waste intended for fuel blending? Yes* ● No

If you answered 'Yes' to question 10.1, please enter the following:

Heat value (BTU/lb.)

Chlorine (%)

Water (%)

Solids (%)

10.2) Is this waste intended for reclamation? Yes ● No (5-Gallon Sample required for all reclaim waste streams)

Section 11 - Constituent Information

Please identify your waste constituents from these four categories: **Underlying Hazardous Constituents (UHC's), Volatile Organic Hazardous Air Pollutants (VOHAP's), Volatile Organic Compounds (VOC's) and Toxic Release Inventory Constituents (TRI)**

Constituent	Concentration	UHC?
Polychlorinated biphenyls	550. ppm	Yes ● No

Please see Section 11 of the EQ Resource Guide for a list of UHC's, VOHAP's and VOC's. For a complete list of TRI constituents, please refer to 40 CFR 372.65.

Section 12 - Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's Resource Team to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

Comments:
logged in

Generator: _____ _____

Authorized Generator Signature *Printed Generator Name*

Company: _____ Title: _____ Date: _____

The generator's signature MUST appear on the EQ Waste Characterization Report. If the generator has authorized a third party to certify this document, a written notice (on generator letterhead) must accompany this submittal. Although the EQ Resource Team is authorized to make certain modifications to the information provided on this form, the addition or removal of waste codes and waste constituents must be documented by the generator.

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ - The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Characterization Report, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions.

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Characterization Report and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Characterization Report (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Characterization Report containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Characterization Report, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Characterization Report.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Characterization Report. The information set forth in the Waste Characterization Report or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statues, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure.

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of a location, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws.

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

December 14, 2007

Mr. Mark Wilson
TERRACON CONSULTANTS, INC.
135 Ambassador Drive
Naperville, IL 60540

Project ID: 11077052
First Environmental File ID: 7-5236
Date Received: November 20, 2007

Dear Mr. Mark Wilson:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 001767: effective 06/11/07 through 02/28/08.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Stan Zawolski
Project Manager

First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Case Narrative

TERRACON CONSULTANTS, INC.

Project ID: **11077052**

First Environmental File ID: **7-5236**

Date Received: **November 20, 2007**

Flag	Description	Flag	Description
<	Analyte not detected at or above the reporting limit.	L+	LCS recovery outside control limits; high bias.
B	Analyte detected in associated method blank.	L-	LCS recovery outside control limits; low bias.
C	Identification confirmed by GC/MS.	M	MS recovery outside control limits; LCS acceptable.
D	Surrogates diluted out; recovery not available.	M+	MS recovery outside control limits high bias; LCS acceptable.
E	Estimated result; concentration exceeds calibration range.	M-	MS recovery outside control limits low bias; LCS acceptable.
F	Field measurement.	N	Analyte is not part of our NELAC accreditation.
		ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.
G	Surrogate recovery outside control limits; matrix effect.	P	Chemical preservation pH adjusted in lab.
H	Analysis or extraction holding time exceeded.	Q	The analyte was determined by a GC/MS database search.
J	Estimated result; concentration is less than calib range.	S	Analyte was sub-contracted to another laboratory for analysis.
K	RPD outside control limits.	T	Sample temperature upon receipt exceeded 0-6°C
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	W	Reporting limit elevated due to sample matrix.

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

Sample Batch Comments:

Sample acceptance criteria were met.

Method Comments

Lab Number	Sample ID	Comments:
7-5236-001	JSS-1	*Polynuclear Aromatic Hydrocarbons* The reporting limits are elevated due to matrix interference.

First Environmental Laboratories, Inc.
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Analytical Report

Client: TERRACON CONSULTANTS, INC.
Project ID: 11077052
Sample ID: JSS-4
Sample No: 7-5236-004

Date Collected: 11/19/07
Time Collected: 16:15
Date Received: 11/20/07
Date Reported: 12/14/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, total **Method: 160.3**				
Analysis Date: 11/21/07				
Total Solids	96.21		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 11/29/07				
Acetone	< 100	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	

First Environmental Laboratories, Inc.

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Analytical Report

Client:	TERRACON CONSULTANTS, INC.	**Date Collected:**	11/19/07
Project ID:	11077052	**Time Collected:**	16:15
Sample ID:	JSS-4	**Date Received:**	11/20/07
Sample No:	7-5236-004	**Date Reported:**	12/14/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 11/29/07				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Polynuclear Aromatic Hydrocarbons **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 12/03/07		Preparation Date: 11/29/07		
Acenaphthene	258	50	ug/kg	
Acenaphthylene	106	50	ug/kg	
Anthracene	317	50	ug/kg	
Benzo(a)anthracene	1,210	8.7	ug/kg	
Benzo(a)pyrene	1,110	15	ug/kg	
Benzo(b)fluoranthene	1,190	11	ug/kg	
Benzo(k)fluoranthene	1,210	11	ug/kg	
Benzo(ghi)perylene	426	50	ug/kg	
Chrysene	1,480	50	ug/kg	
Dibenzo(a,h)anthracene	172	20	ug/kg	
Fluoranthene	2,640	50	ug/kg	
Fluorene	216	50	ug/kg	
Indeno(1,2,3-cd)pyrene	524	29	ug/kg	
Naphthalene	202	25	ug/kg	
Phenanthrene	1,710	50	ug/kg	
Pyrene	2,040	50	ug/kg	
Polychlorinated biphenyls (PCBs) **Method: 8082**		**Preparation Method 3540C**		
Analysis Date: 12/04/07		Preparation Date: 11/27/07		
Aroclor 1016	< 2,000	80.0	ug/kg	
Aroclor 1221	< 2,000	80.0	ug/kg	
Aroclor 1232	< 2,000	80.0	ug/kg	
Aroclor 1242	< 2,000	80.0	ug/kg	
Aroclor 1248	490,000	80.0	ug/kg	
Aroclor 1254	58,600	160	ug/kg	
Aroclor 1260	< 2,000	160	ug/kg	

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Analytical Report

Client: TERRACON CONSULTANTS, INC.
Project ID: 11077052
Sample ID: JSS-4
Sample No: 7-5236-004

Date Collected: 11/19/07
Time Collected: 16:15
Date Received: 11/20/07
Date Reported: 12/14/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010B**		**Preparation Method 3050B**		
Analysis Date: 11/29/07		Preparation Date: 11/21/07		
Antimony	143	1.0	mg/kg	
Arsenic	11.5	0.2	mg/kg	
Beryllium	0.5	0.1	mg/kg	
Cadmium	44.3	0.1	mg/kg	
Chromium	458	0.1	mg/kg	
Copper	48,400	0.1	mg/kg	
Lead	4,000	0.2	mg/kg	
Nickel	2,080	0.1	mg/kg	
Selenium	171	0.2	mg/kg	
Silver	11.8	0.1	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Zinc	5,200	0.5	mg/kg	
Total Metals **Method: 7470A**				
Analysis Date: 11/27/07				
Mercury	69.9	0.05	mg/kg	

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Analytical Report

Client: TERRACON CONSULTANTS, INC.
Project ID: 11077052
Sample ID: JSS-5
Sample No: 7-5236-005

Date Collected: 11/19/07
Time Collected: 16:25
Date Received: 11/20/07
Date Reported: 12/14/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, total **Method: 160.3**				
Analysis Date: 11/21/07				
Total Solids	96.32		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 11/29/07				
Acetone	< 100	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	

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Analytical Report

Client:	TERRACON CONSULTANTS, INC.	**Date Collected:**	11/19/07
Project ID:	11077052	**Time Collected:**	16:25
Sample ID:	JSS-5	**Date Received:**	11/20/07
Sample No:	7-5236-005	**Date Reported:**	12/14/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 11/29/07				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Polynuclear Aromatic Hydrocarbons **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 12/03/07		Preparation Date: 11/30/07		
Acenaphthene	< 50	50	ug/kg	
Acenaphthylene	< 50	50	ug/kg	
Anthracene	< 50	50	ug/kg	
Benzo(a)anthracene	49.1	8.7	ug/kg	
Benzo(a)pyrene	45	15	ug/kg	
Benzo(b)fluoranthene	68	11	ug/kg	
Benzo(k)fluoranthene	90	11	ug/kg	
Benzo(ghi)perylene	< 50	50	ug/kg	
Chrysene	117	50	ug/kg	
Dibenzo(a,h)anthracene	< 20	20	ug/kg	
Fluoranthene	174	50	ug/kg	
Fluorene	< 50	50	ug/kg	
Indeno(1,2,3-cd)pyrene	45	29	ug/kg	
Naphthalene	150	25	ug/kg	
Phenanthrene	109	50	ug/kg	
Pyrene	141	50	ug/kg	
Polychlorinated biphenyls (PCBs) **Method: 8082**		**Preparation Method 3540C**		
Analysis Date: 11/30/07		Preparation Date: 11/27/07		
Aroclor 1016	< 80.0	80.0	ug/kg	
Aroclor 1221	< 80.0	80.0	ug/kg	
Aroclor 1232	< 80.0	80.0	ug/kg	
Aroclor 1242	< 80.0	80.0	ug/kg	
Aroclor 1248	36,500	80.0	ug/kg	
Aroclor 1254	14,100	160	ug/kg	
Aroclor 1260	< 160	160	ug/kg	
Cyanide, Total **Method: 4500CN,C,E**				
Analysis Date: 11/21/07				
Cyanide, Total	0.43	0.10	mg/kg	

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Analytical Report

Client:	TERRACON CONSULTANTS, INC.	**Date Collected:**	11/19/07
Project ID:	11077052	**Time Collected:**	16:25
Sample ID:	JSS-5	**Date Received:**	11/20/07
Sample No:	7-5236-005	**Date Reported:**	12/14/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010B**		**Preparation Method 3050B**		
Analysis Date: 11/29/07		Preparation Date: 11/21/07		
Aluminum	14,400	5.0	mg/kg	
Antimony	17.4	1.0	mg/kg	
Arsenic	7.7	0.2	mg/kg	
Barium	103	0.1	mg/kg	
Beryllium	0.6	0.1	mg/kg	
Cadmium	11.0	0.1	mg/kg	
Calcium	9,430	10	mg/kg	
Chromium	136	0.1	mg/kg	
Cobalt	14.2	0.1	mg/kg	
Copper	3,450	0.1	mg/kg	
Iron	4,040	1.0	mg/kg	
Lead	593	0.2	mg/kg	
Magnesium	6,740	10	mg/kg	
Manganese	574	0.1	mg/kg	
Nickel	71.5	0.1	mg/kg	
Potassium	1,520	10	mg/kg	
Selenium	1.7	0.2	mg/kg	
Silver	1.8	0.1	mg/kg	
Sodium	187	10	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	62.3	1.0	mg/kg	
Zinc	1,710	0.5	mg/kg	
Total Metals **Method: 7470A**				
Analysis Date: 11/27/07				
Mercury	2.34	0.05	mg/kg	
Dioxin, High Resolution **Method: 8290**				
Analysis Date: 12/12/07				
Dioxin	See Attach.			S

Pace Analytical Services, Inc.
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Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

www.pacelabs.com

Report Prepared for:

Lorrie Franklin
First Environmental Labs
1600 Shore Road
Naperville IL 60563

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Information:

Pace Project #: 1064028
Sample Receipt Date: 11/29/2007
Client Project #: 7-5236
Client Sub PO #: 112607-04
State Cert #: N/A

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Nate Habte, your Pace Project Manager.

This report has been reviewed and prepared by:

Nate Habte, Project Manager
(612) 607-6407
(612) 607-6444 (fax)
natnael.habte@pacelabs.com

Report Prepared Date:

December 13, 2007

Report of Laboratory Analysis

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Pace Analytical™

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
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DISCUSSION

This report presents the results from the analyses performed on three samples submitted by a representative of First Environmental Laboratories, Inc. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The reporting limits were set to correspond to one-fifth of the lowest calibration points.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 28-103%. With the exceptions of four low values, which were flagged "P" on the results tables, the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In some cases, interfering substances impacted the determinations of PCDF congeners. The affected values were flagged "E" where polychlorinated diphenyl ethers were present.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to be free of PCDDs and PCDFs at the reporting limits, with the exception of a trace level of OCDD. This was below the calibration range of the method. The OCDD levels reported for the field samples were higher than the OCDD level in the blank by three orders of magnitude or more. These results indicate that the sample processing steps did not contribute significantly to the levels reported for the field samples.

A laboratory spike sample was also prepared with the sample batch using clean sand that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 99-124%. These results indicate a high degree of accuracy for these determinations.

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Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - First Environmental Labs

Client's Sample ID	7-5236-005		
Lab Sample ID	1064028003		
Filename	P71212A_12		
Injected By	SMT		
Total Amount Extracted	10.8 g	Matrix	Solid
% Moisture	3.3	Dilution	NA
Dry Weight Extracted	10.5 g	Collected	11/19/2007
ICAL Date	10/19/2007	Received	11/29/2007
CCal Filename(s)	P71212A_01 & P71212A_17	Extracted	12/01/2007
Method Blank ID	BLANK-14934	Analyzed	12/12/2007 22:07

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	1100	—	0.19		2,3,7,8-TCDF-13C	2.00	81
Total TCDF	4100	—	0.19		2,3,7,8-TCDD-13C	2.00	81
					1,2,3,7,8-PeCDF-13C	2.00	84
2,3,7,8-TCDD	55	—	0.21	A	2,3,4,7,8-PeCDF-13C	2.00	87
Total TCDD	810	—	0.21		1,2,3,7,8-PeCDD-13C	2.00	103
					1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	1800	—	1.00	A	1,2,3,6,7,8-HxCDF-13C	2.00	70
2,3,4,7,8-PeCDF	920	—	0.95		2,3,4,6,7,8-HxCDF-13C	2.00	71
Total PeCDF	7800	—	0.99		1,2,3,7,8,9-HxCDF-13C	2.00	77
					1,2,3,4,7,8-HxCDD-13C	2.00	84
1,2,3,7,8-PeCDD	110	—	0.95		1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	1500	—	0.95		1,2,3,4,6,7,8-HpCDF-13C	2.00	65
					1,2,3,4,7,8,9-HpCDF-13C	2.00	55
1,2,3,4,7,8-HxCDF	2500	—	1.40	A	1,2,3,4,6,7,8-HpCDD-13C	2.00	71
1,2,3,6,7,8-HxCDF	—	1400	1.40	EA	OCDD-13C	4.00	58 Y
2,3,4,6,7,8-HxCDF	960	—	1.90	A			
1,2,3,7,8,9-HxCDF	730	—	2.30	A	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	7200	—	1.70		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	120	—	0.95		2,3,7,8-TCDD-37Cl4	0.20	NC
1,2,3,6,7,8-HxCDD	310	—	0.95				
1,2,3,7,8,9-HxCDD	220	—	0.98	A			
Total HxCDD	3100	—	0.96				
1,2,3,4,6,7,8-HpCDF	5900	—	2.20	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	2000	—	2.10	A	Equivalence: 1400 ng/Kg		
Total HpCDF	10000	—	2.20		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	2400	—	1.70	A			
Total HpCDD	4500	—	1.70				
OCDF	9800	—	1.90				
OCDD	6100	—	1.90				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
A = Reporting Limit based on signal to noise
E = PCDE Interference
Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-14934	Matrix	Solid
Filename	P71211B_09	Dilution	NA
Total Amount Extracted	10.1 g	Extracted	12/01/2007
ICAL Date	10/19/2007	Analyzed	12/12/2007 05:19
CCal Filename(s)	P71211A_19 & P71211B_17	Injected By	SMT

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	—	0.20	2,3,7,8-TCDF-13C	2.00	64
Total TCDF	ND	—	0.20	2,3,7,8-TCDD-13C	2.00	69
				1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	ND	—	0.20	2,3,4,7,8-PeCDF-13C	2.00	72
Total TCDD	ND	—	0.20	1,2,3,7,8-PeCDD-13C	2.00	88
				1,2,3,4,7,8-HxCDF-13C	2.00	68
1,2,3,7,8-PeCDF	ND	—	0.99	1,2,3,6,7,8-HxCDF-13C	2.00	69
2,3,4,7,8-PeCDF	ND	—	0.99	2,3,4,6,7,8-HxCDF-13C	2.00	66
Total PeCDF	ND	—	0.99	1,2,3,7,8,9-HxCDF-13C	2.00	67
				1,2,3,4,7,8-HxCDD-13C	2.00	77
1,2,3,7,8-PeCDD	ND	—	0.99	1,2,3,6,7,8-HxCDD-13C	2.00	75
Total PeCDD	ND	—	0.99	1,2,3,4,6,7,8-HpCDF-13C	2.00	71
				1,2,3,4,7,8,9-HpCDF-13C	2.00	55
1,2,3,4,7,8-HxCDF	ND	—	0.99	1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	ND	—	0.99	OCDD-13C	4.00	69
2,3,4,6,7,8-HxCDF	ND	—	0.99			
1,2,3,7,8,9-HxCDF	ND	—	0.99	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	—	0.99	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	—	0.99	2,3,7,8-TCDD-37Cl4	0.20	69
1,2,3,6,7,8-HxCDD	ND	—	0.99			
1,2,3,7,8,9-HxCDD	ND	—	0.99			
Total HxCDD	ND	—	0.99			
1,2,3,4,6,7,8-HpCDF	ND	—	0.99	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	—	0.99	Equivalence: 0.0040 ng/Kg		
Total HpCDF	ND	—	0.99	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	—	0.99			
Total HpCDD	ND	—	0.99			
OCDF	ND	—	2.00			
OCDD	4.0	—	2.00 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.
J = Value below calibration range

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-14935		
Filename	P71211B_03	Matrix	Solid
Total Amount Extracted	10.5 g	Dilution	NA
ICAL Date	10/19/2007	Extracted	12/01/2007
CCal Filename(s)	P71211A_19 & P71211B_17	Analyzed	12/12/2007 00:59
Method Blank ID	BLANK-14934	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	103	2,3,7,8-TCDF-13C	2.00	74
Total TCDF				2,3,7,8-TCDD-13C	2.00	80
				1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	0.20	0.20	101	2,3,4,7,8-PeCDF-13C	2.00	81
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	102
				1,2,3,4,7,8-HxCDF-13C	2.00	80
1,2,3,7,8-PeCDF	1.00	1.13	113	1,2,3,6,7,8-HxCDF-13C	2.00	75
2,3,4,7,8-PeCDF	1.00	1.10	110	2,3,4,6,7,8-HxCDF-13C	2.00	76
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	82
				1,2,3,4,7,8-HxCDD-13C	2.00	89
1,2,3,7,8-PeCDD	1.00	0.99	99	1,2,3,6,7,8-HxCDD-13C	2.00	86
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	81
				1,2,3,4,7,8,9-HpCDF-13C	2.00	68
1,2,3,4,7,8-HxCDF	1.00	1.06	106	1,2,3,4,6,7,8-HpCDD-13C	2.00	91
1,2,3,6,7,8-HxCDF	1.00	1.14	114	OCDD-13C	4.00	88
2,3,4,6,7,8-HxCDF	1.00	1.10	110			
1,2,3,7,8,9-HxCDF	1.00	1.09	109	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.08	108	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	1.00	1.07	107			
1,2,3,7,8,9-HxCDD	1.00	1.08	108			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.00	1.12	112			
1,2,3,4,7,8,9-HpCDF	1.00	1.24	124			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.00	1.05	105			
Total HpCDD						
OCDF	2.00	2.25	113			
OCDD	2.00	2.44	122			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range
X = Background subtracted value
Vn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Page____ of ____ pgs

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IEPA Certification# 100292

Company Name: Terraum
Street Address: 135 Ambassador Dr.
City: Naperville State: IL Zip: 60540
Phone: 630 717 4263 Fax: e-mail:
Send Report To: Mark Wilson Via: Fax ☐ e-mail ☒
Sampled By: Mark Wilson

Project I.D.: 11077052
P.O. #.:

Matrix Codes: S = Soil W = Water O = Other

Analyses

Date/Time Taken	Sample Description	Matrix	PCBs	PNAs	PP metals	TCL metals	VOCs	Dioxin/Furans			Comments	Lab I.D.
11-19/3:35	JSS-1	S	X	X	X		X	X			Z- 52336-	001
11-19/3:45	JSS-2	S	X	X	X		X					002
11-19/4:00	JSS-3	S	X	X		X	X	X				003
11-19/4:15	JSS-4	S	X	X	X		X					004
11-19/4:25	JSS-5	S	X	X		X	X	X				005

FOR LAB USE ONLY:

Cooler Temperature: 0.1-6ºC Yes✓ No.__ 2.0 ºC
Received within 6 hrs. of collection:_____
Ice Present: Yes✓ No__

Sample Refrigerated: Yes__ No__
Refrigerator Temperature:_____ºC
5035 Vials Frozen: Yes__ No__
Freezer Temperature:_____ºC

Containers Received Preserved: ☐ Yes ☐ No

Notes and Special Instructions:

Relinquished By: Mark Wilson Date/Time 11-20 4:30 Received By: [signature] Date/Time 11/20/07 1630
Relinquished By: Date/Time Received By: Date/Time

Rev. 4/06

First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

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January 15, 2008

Mr. Mark Wilson
TERRACON CONSULTANTS, INC.
135 Ambassador Drive
Naperville, IL 60540

Project ID: 11077052
First Environmental File ID: 8-0040
Date Received: January 04, 2008

Dear Mr. Mark Wilson:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 001767: effective 06/11/07 through 02/28/08.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Stan Zaworski
Project Manager

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
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Case Narrative

TERRACON CONSULTANTS, INC.

Project ID: **11077052**

First Environmental File ID: **8-0040**

Date Received: **January 04, 2008**

Flag	Description	Flag	Description
<	Analyte not detected at or above the reporting limit.	L+	LCS recovery outside control limits; high bias.
B	Analyte detected in associated method blank.	L-	LCS recovery outside control limits; low bias.
C	Identification confirmed by GC/MS.	M	MS recovery outside control limits; LCS acceptable.
D	Surrogates diluted out; recovery not available.	M+	MS recovery outside control limits high bias; LCS acceptable.
E	Estimated result; concentration exceeds calibration range.	M-	MS recovery outside control limits low bias; LCS acceptable.
F	Field measurement.	N	Analyte is not part of our NELAC accreditation.
		ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.
G	Surrogate recovery outside control limits; matrix effect.	P	Chemical preservation pH adjusted in lab.
H	Analysis or extraction holding time exceeded.	Q	The analyte was determined by a GC/MS database search.
J	Estimated result; concentration is less than calib range.	S	Analyte was sub-contracted to another laboratory for analysis.
K	RPD outside control limits.	T	Sample temperature upon receipt exceeded 0-6°C
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	W	Reporting limit elevated due to sample matrix.

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

Sample Batch Comments:

Sample acceptance criteria were met.

Method Comments

Lab Number	Sample ID	Comments:
8-0040-001	JSS-6	*Polychlorinated biphenyls (PCBs)* The reporting limits are elevated due to matrix interference.
8-0040-001	JSS-6	*Polynuclear Aromatic Hydrocarbons* The reporting limits are elevated due to matrix interference.
8-0040-006	JSS-11	*Total Metals* The reporting limits are elevated due to matrix interference.
8-0040-006	JSS-11	*Polynuclear Aromatic Hydrocarbons* The reporting limits are elevated due to matrix interference.

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Analytical Report

Client:	TERRACON CONSULTANTS, INC.	**Date Collected:**	01/04/08
Project ID:	11077052	**Time Collected:**	11:00
Sample ID:	JSS-10	**Date Received:**	01/04/08
Sample No:	8-0040-005	**Date Reported:**	01/15/08

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 160.3**				
Analysis Date: 01/07/08				
Total Solids	93.16		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 01/07/08				
Acetone	182	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	23.3	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	

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Analytical Report

Client: TERRACON CONSULTANTS, INC.
Project ID: 11077052
Sample ID: JSS-10
Sample No: 8-0040-005

Date Collected: 01/04/08
Time Collected: 11:00
Date Received: 01/04/08
Date Reported: 01/15/08

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 01/07/08				
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Polynuclear Aromatic Hydrocarbons **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 01/09/08		Preparation Date: 01/07/08		
Acenaphthene	< 50	50	ug/kg	
Acenaphthylene	< 50	50	ug/kg	
Anthracene	63	50	ug/kg	
Benzo(a)anthracene	159	8.7	ug/kg	
Benzo(a)pyrene	162	15	ug/kg	
Benzo(b)fluoranthene	215	11	ug/kg	
Benzo(k)fluoranthene	229	11	ug/kg	
Benzo(ghi)perylene	123	50	ug/kg	
Chrysene	264	50	ug/kg	
Dibenzo(a,h)anthracene	49	20	ug/kg	
Fluoranthene	585	50	ug/kg	
Fluorene	< 50	50	ug/kg	
Indeno(1,2,3-cd)pyrene	120	29	ug/kg	
Naphthalene	215	25	ug/kg	
Phenanthrene	398	50	ug/kg	
Pyrene	307	50	ug/kg	
Polychlorinated biphenyls (PCBs) **Method: 8082**		**Preparation Method 3540C**		
Analysis Date: 01/10/08		Preparation Date: 01/07/08		
Aroclor 1016	< 80.0	80.0	ug/kg	
Aroclor 1221	< 80.0	80.0	ug/kg	
Aroclor 1232	< 80.0	80.0	ug/kg	
Aroclor 1242	< 80.0	80.0	ug/kg	
Aroclor 1248	23,900	80.0	ug/kg	
Aroclor 1254	35,600	160	ug/kg	
Aroclor 1260	< 160	160	ug/kg	

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Analytical Report

Client: TERRACON CONSULTANTS, INC.
Project ID: 11077052
Sample ID: JSS-10
Sample No: 8-0040-005

Date Collected: 01/04/08
Time Collected: 11:00
Date Received: 01/04/08
Date Reported: 01/15/08

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010B**		**Preparation Method 3050B**		
Analysis Date: 01/14/08		Preparation Date: 01/08/08		
Antimony	398	1.0	mg/kg	
Arsenic	9.9	0.2	mg/kg	
Beryllium	1.6	0.1	mg/kg	
Cadmium	56.0	0.1	mg/kg	
Chromium	181	0.1	mg/kg	
Copper	361,000	0.1	mg/kg	
Lead	13,700	0.2	mg/kg	
Nickel	5,240	0.1	mg/kg	
Selenium	< 20	0.2	mg/kg	
Silver	14.5	0.1	mg/kg	
Thallium	< 100	1.0	mg/kg	
Zinc	10,200	0.5	mg/kg	
Total Metals **Method: 7470A**				
Analysis Date: 01/08/08				
Mercury	4.45	0.05	mg/kg	

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Analytical Report

Client:	TERRACON CONSULTANTS, INC.	**Date Collected:**	01/04/08
Project ID:	11077052	**Time Collected:**	11:45
Sample ID:	JWC-1	**Date Received:**	01/04/08
Sample No:	8-0040-007	**Date Reported:**	01/15/08

Analyte		Result	R.L.	Units	Flags
Cyanide, Reactive Analysis Date: 01/08/08	**Method: 7.3.3.2.**				
Cyanide, Reactive		< 10	10	mg/kg	
Sulfide, Reactive Analysis Date: 01/08/08	**Method: 7.3.4.2.**				
Sulfide, Reactive		< 10	10	mg/kg	
Flash Point - Open Cup Analysis Date: 01/10/08	**Method: 1010M**				
Flash Point - Open Cup		No Flash @		212 °F	
pH @ 25°C, 1:10 Analysis Date: 01/08/08	**Method: 4500H+B**				
pH @ 25°C, 1:10		8.31		Units	
TCLP Metals Method 1311 Analysis Date: 01/10/08	**Method: 6010B**		**Preparation Method 3010A** Preparation Date: 01/08/08		
Arsenic		< 0.002	0.002	mg/L	
Barium		< 1.0	1.0	mg/L	
Cadmium		0.328	0.001	mg/L	
Chromium		0.010	0.001	mg/L	
Lead		50.9	0.002	mg/L	
Selenium		< 0.002	0.002	mg/L	
Silver		< 0.001	0.001	mg/L	
TCLP Metals Method 1311 Analysis Date: 01/11/08	**Method: 7470A**				
Mercury		0.0009	0.0005	mg/L	

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Company Name: Terracon
Street Address: 135 Ambassador Dr.
City: Naperville State: IL Zip: 60540
Phone: 630-717-4263 Fax: e-mail:
Send Report To: Mark Wilson Via: Fax ☐ e-mail ☒
Sampled By: Mark Wilson

Project I.D.: 11077052
P.O. #:

Matrix Codes: S = Soil W = Water O = Other

Analyses

Date/Time Taken	Sample Description	Matrix	PCBs	PNAs	PP Metals	VOCs	Reactive CN	Reactive Sulfide	Flash Point/Corrosivity	TCLP Metals	Comments	Lab I.D.
1-4-08/9:00	JSS-6	S	X	X	X	X					8-0040	001
1-4-08/9:30	JSS-7	S	X	X	X	X						002
1-4-08/10:00	JSS-8	S	X	X	X	X						003
1-4-08/10:30	JSS-9	S	X	X	X	X						004
1-4-08/11:00	JSS-10	S	X	X	X	X						005
1-4-08/11:30	JSS-11	S	X	X	X	X						006
1-4-08/11:45	JWC-1	S					X	X	X	X	Composite of (JSS-1→JSS-5, JSS-9→JSS-11)	007

FOR LAB USE ONLY:

Cooler Temperature: 0.1-6°C: Yes__ No.__ _____°C
Received within 6 hrs. of collection: _____
Ice Present: Yes__ No__

Sample Refrigerated: Yes__ No__
Refrigerator Temperature: _____°C
5035 Vials Frozen: Yes__ No__
Freezer Temperature: _____°C

Containers Received Preserved: ☐ Yes ☐ No

Notes and Special Instructions:

Relinquished By: Mark Wilson Date/Time 1-4-08/5:00 Received By: Date/Time 1/4/08 5:00
Relinquished By: Date/Time Received By: Date/Time

Rev. 4/06

Ap... J09... WDI
Receipt Date: 10/01/2009 .. 11/30/2009
Receipt Status: All
Trans Mode (Inbound/Outbound): Both
Bulk Mode (Bulk/Non-Bulk): Both

Receipt List

Wayne Disposal, Inc.

1 Wayne Disposal, Inc.

Receipt ID	Manifest/BOL / Commingled	Customer		Generator		Waste Stream	Approval / Product TSDF Approval	Waste Code	Bill Unit	Quantity	Rec.Status	Fpr. Status / Outbound	Date
1179345-1	001893721JJK	99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS	25.41	Accepted	Accepted	11/2/2009
1179346-1	001873720JJK	99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS	25.01	Accepted	Accepted	11/2/2009
1179348-1	001893719JJK	99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS	26.62	Accepted	Accepted	11/2/2009
1179350-1	001893722JJK	99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS	26.16	Accepted	Accepted	11/2/2009
1179352-1	001893724JJK	99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS	25.80	Accepted	Accepted	11/2/2009
1179353-1	001893723JJK	99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS	25.73	Accepted	Accepted	11/2/2009
1179359-1	001893726JJK	99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS	25.69	Accepted	Accepted	11/3/2009
1179360-1	001893725JJK	99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS	23.50	Accepted	Accepted	11/3/2009
1179361-1	001893727JJK	99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS	24.04	Accepted	Accepted	11/3/2009
1179398-1	001893728JJK	99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS	24.61	Accepted	Accepted	11/3/2009
1179399-1	001893729JJK	99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS	25.75	Accepted	Accepted	11/3/2009
1179408-1	001893730JJK	99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS	24.44	Accepted	Accepted	11/4/2009
1179430-1	001893731JJK	99999	EQIS - PMG	ILR000048637	CITY OF ELGIN		J094128WDI	PCB1	TONS	17.37	Accepted	Accepted	11/4/2009
							Total quantity for bill unit TONS:			**320.13**			

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQIS - PMG
TRANSPORTATION & SITE SERVICES
2701 NORTH I-94 SERVICE DRIVE
YPSILANTI, MI 48198

Receipt ID: 1179345
EQ Account #: 99999
Manifest / BOL: 001893721JJK
Transporter: BEELMAN2
Date: 11/02/2009
Time In: 2:58 PM
Time Out: 3:56 PM

Line	Description Generator	Qty. Unit
1 - A	J094128WDI - TSCA Soil	25.410 TONS
	Hazardous Surcharge Ton	25.410 TONS
	ILR000048637 CITY OF ELGIN	
	Gross: 79,680 **Tare:** 28,860 **Net:** 50,820	

NO SALVAGING ON PREMISES

001893721JJK

(3) 9165

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ILR 000 048 637
2. Page 1 of: 1
3. Emergency Response Phone: 630 327 9681
4. Manifest Tracking Number: 001893721 JJK

GENERATOR

5. Generator's Name and Mailing Address: City of Elgin, 150 Dexter Ct, Elgin IL 60120
Generator's Phone: 8479315689
Generator's Site Address (if different than mailing address): 20 Jefferson Ave., Elgin IL 60120

6. Transporter 1 Company Name: Beelman
U.S. EPA ID Number: ILR 000 135 236

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Wayne Disposal Inc Site 2 Landfill, 49350 N I-94 Service Dr, Belleville MI 48111
Facility's Phone: 800 592 5489
U.S. EPA ID Number: MID048090633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432 Polychlorinated biphenyls solid, 9, PG II	1	DT	22,500	Kg	PCB
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
J094128WD1/TSCA soil / Storage Start Date: 11-2-09
Unique Container ID: 3

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Mark Wilson As Agent for City of Elgin
Signature: Mark Wilson
Month 11 Day 2 Year 09

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: NUSRET KARALIC 9165/38809
Signature:
Month 11 Day 2 Year 09

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: David Tarnecki
Signature:
Month 11 Day 2 Year 09

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 001893721JJK, Line Item 1 has been landfilled on

11/2, 2009 in accordance with all local, state and federal regualtions by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

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

Authorized Signature: _____

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQIS - PMG
TRANSPORTATION & SITE SERVICES
2701 NORTH I-94 SERVICE DRIVE
YPSILANTI, MI 48198

Receipt ID: 1179346
EQ Account #: 99999
Manifest / BOL: 001873720JJK
Transporter: BEELMAN2
Date: 11/02/2009
Time In: 3:15 PM
Time Out: 4:01 PM

Line	Description Generator	Qty. Unit
1 - A	J094128WDI - TSCA Soil	25.010 TONS
	Hazardous Surcharge Ton	25.010 TONS
	ILR000048637 CITY OF ELGIN	
	Gross: 73,080 **Tare:** 28,060 **Net:** 50,020	

NO SALVAGING ON PREMISES

001873720JJK

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

Form Approved OMB No. 2050-

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ILR 000 048 637
2. Page 1 of: 1
3. Emergency Response Phone: 630 327 9681
4. Manifest Tracking Number: 001893720 JJK

5. Generator's Name and Mailing Address: City of Elgin, 150 Dexter Ct, Elgin IL 60120
Generator's Site Address (if different than mailing address): 20 Jefferson Ave, Elgin IL 60120
Generator's Phone: 847 931 5659

6. Transporter 1 Company Name: Beelman
U.S. EPA ID Number: ILR 000 135 236

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Wayne Disposal, Inc. Site 2 Landfill, 49350 N I94 Service Drive, Belleville MI 48111
U.S. EPA ID Number: MID048 090 633
Facility's Phone: 800 592 5489

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432 Polychlorinated biphenyls, solid, 9, PG11	1	DT	22,500	Kg	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: J094128WD1 / TSCA soil / Storage Start Date: 11-2-09
Unique Container ID: 2

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Mark Wilson As Agent for City of Elgin
Signature: Mark Wilson
Month 11 Day 2 Year 09

16. International Shipments: ☑ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jerry Knapp 7177/38628
Signature: Jerry Knapp
Month 11 Day 2 Year 09
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Tanya Cougar
Signature:
Month 11 Day 02 Year 09

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as pcb solid

and specified on Manifest # 001893720JK, Line Item 1 has been landfilled on 11/02, 2009 in accordance with all local, state and federal regualtions by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

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

Authorized Signature:

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQIS - PMG
TRANSPORTATION & SITE SERVICES
2701 NORTH I-94 SERVICE DRIVE
YPSILANTI, MI 48198

Receipt ID: 1179348
EQ Account #: 99999
Manifest / BOL: 001893719JJK
Transporter: BEELMAN2
Date: 11/02/2009
Time In: 3:23 PM
Time Out: 4:41 PM

Line	Description Generator	Qty. Unit
1 - A	J094128WDI - TSCA Soil	26.620 TONS
	Hazardous Surcharge Ton	26.620 TONS
	ILR000048637 CITY OF ELGIN	
	Gross: 81,420 **Tare:** 28,180 **Net:** 53,240	

NO SALVAGING ON PREMISES

001893719JJK

6191

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	ILR 000 048 637	1	630 327 9681	001893719 JJK

5. Generator's Name and Mailing Address: City of Elgin, 150 Dexter Court, Elgin IL 60120, Willing Cogley

Generator's Site Address (if different than mailing address): 20 Jefferson Ave, ~~Ave~~ Elgin IL 60120

Generator's Phone: 847 931 5655

6. Transporter 1 Company Name: Beelman — U.S. EPA ID Number: ILR000135236

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Wayne Disposal, Inc Site 2 Landfill, 49350 N-I94 Service Drive, Belleville MI 48111 — U.S. EPA ID Number: MID 048 090 633

Facility's Phone: 800 592-5489

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
K	1. UN 3432, Polychlorinated biphenyls, solid, 7, PG II	1	DT	22,500	Kg	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: J094128WD1/TSCA soil/Storage Start Date: 11-2-09
Unique Container ID: 1

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Mark Wilson As Agent for City of Elgin — Signature: Mark Wilson — Month 11 Day 2 Year 09

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ray Stiff — Signature: Ray Stiff — Month 11 Day 2 Year 09

Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator): — U.S. EPA ID Number:

Facility's Phone:

18c. Signature of Alternate Facility (or Generator): — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
11132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: David Tarnacki — Signature: [signature] — Month 11 Day 2 Year 09

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05). Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 001893719JJK, Line Item 01 has been landfilled on

11/2, 2009 in accordance with all local, state and federal regualtions by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

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

Authorized Signature: _____

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQIS - PMG
TRANSPORTATION & SITE SERVICES
2701 NORTH I-94 SERVICE DRIVE
YPSILANTI, MI 48198

Receipt ID: 1179350
EQ Account #: 99999
Manifest / BOL: 001893722JJK
Transporter: BEELMAN2
Date: 11/02/2009
Time In: 3:57 PM
Time Out: 4:36 PM

Line	Description Generator	Qty. Unit
1 - A	J094128WDI - TSCA Soil	26.160 TONS
	Hazardous Surcharge Ton	26.160 TONS
	ILR000048637 CITY OF ELGIN	
	Gross: 80,600 **Tare:** 28,280 **Net:** 52,320	

NO SALVAGING ON PREMISES

001893722JJK

(4)

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

Form Approved. OMB No. 2050-0

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: IAR 000 048 637
2. Page 1 of: 1
3. Emergency Response Phone: 630 327-9681
4. Manifest Tracking Number: 001893722 JJK

5. Generator's Name and Mailing Address: City of Elgin Within Ogley, 150 Dexter Ct, Elgin IL 60120, 847 931 5659
Generator's Site Address (if different than mailing address): 20 Jefferson Ap, Elgin IL 60120
Generator's Phone:

6. Transporter 1 Company Name: Bedman — U.S. EPA ID Number: ILR000135 236

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Wayne Disposal Inc Site 2 Landfill, 49350 N I94 Service Dr, Belleville MI 48111, 800 592 5489 — U.S. EPA ID Number: MID 048 090 633
Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN 3432 Polychlorinated biphenyls solid, 9, PG II	1	DT	22,500	Kg	PCB
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: J094128WD1/TSCA soil/ Storage Start Date: 11-2-09
Unique Container ID: 4

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Mark Wilson As Agent for City of Elgin — Signature: Mark Wilson — Month 11 Day 2 Year 09

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: RANDALL STAPLETON 7153/32621 — Signature: [signature] — Month 11 Day 2 Year 09
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: David Tarnacki — Signature: [signature] — Month 11 Day 2 Year 09

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 061893722 JJK, Line Item 1 has been landfilled on

11/2, 2009 in accordance with all local, state and federal regualtions by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

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

Authorized Signature: _____

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQIS - PMG
TRANSPORTATION & SITE SERVICES
2701 NORTH I-94 SERVICE DRIVE
YPSILANTI, MI 48198

Receipt ID: 1179352
EQ Account #: 99999
Manifest / BOL: 001893724JJK
Transporter: BEELMAN2
Date: 11/02/2009
Time In: 4:39 PM
Time Out: 5:22 PM

Line	Description Generator	Qty. Unit
1 - A	J094128WDI - TSCA Soil	25.800 TONS
	Hazardous Surcharge Ton	25.800 TONS
	ILR000048637 CITY OF ELGIN	
	Gross: 79,500 **Tare:** 27,900 **Net:** 51,600	

NO SALVAGING ON PREMISES

001893724JJK

(6)

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	ILR000048637	1	630 3279681	001893724 JJK

5. Generator's Name and Mailing Address: City of Elgin Attn William Logley 150 Dexter Ct Elgin IL 60120 847931568

Generator's Site Address (if different than mailing address): 20 Jefferson Ave Elgin IL 60120

Generator's Phone:

6. Transporter 1 Company Name: Beelman — U.S. EPA ID Number: ILR000135236

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Wayne Disposal Inc SITE 2 LANDFILL 49350 N-I94 Service Drive. Belleville MI 48111 800 592-5489 — U.S. EPA ID Number: MID048090633

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
K	1. UN3432 Polychloronated biphenyls SOLID, 9, PG11	1	DT	22,500	Kg	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: J094128WD1 /TSCA Soil/ Storage Start Date 11-2-09 Unique Container ID 6

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Mark Wilson As Agent for City of Elgin — Signature: Mark Wilson — Month 11 Day 2 Year 09

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Steven M Wysocki 7162 — Signature: [signature] — Month 11 Day 2 Year 09

Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: David Tarnali — Signature: [signature] — Month 11 Day 2 Year 09

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 001893724JJK, Line Item 1 has been landfilled on

11/2, 2009 in accordance with all local, state and federal regualtions by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

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

Authorized Signature: _____

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQIS - PMG
TRANSPORTATION & SITE SERVICES
2701 NORTH I-94 SERVICE DRIVE
YPSILANTI, MI 48198

Receipt ID: 1179353
EQ Account #: 99999
Manifest / BOL: 001893723JJK
Transporter: BEELMAN2
Date: 11/02/2009
Time In: 4:49 PM
Time Out: 5:25 PM

Line	Description Generator	Qty. Unit
1 - A	J094128W/DI - TSCA Soil	25.730 TONS
	Hazardous Surcharge Ton	25.730 TONS
	ILR000048637 CITY OF ELGIN	
	Gross: 79,040 **Tare:** 27,580 **Net:** 51,460	

NO SALVAGING ON PREMISES

001893723JJK

7172 (5)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ILR000048637
2. Page 1 of: 1
3. Emergency Response Phone: 630 327 968
4. Manifest Tracking Number: 001893723 JJK

5. Generator's Name and Mailing Address: City of Elgin, 150 Dexter Ct, Attn William Cogley, Elgin IL 18479315659
Generator's Site Address (if different than mailing address): 20 Jefferson Ave, Elgin IL 60120
Generator's Phone:

6. Transporter 1 Company Name: Beelman — U.S. EPA ID Number: ILR000135236

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Wayne Disposal Inc Site 2 Landfill, 49350 N-I94 Service Drive, Belleville MI 48111 800 592-5489 — U.S. EPA ID Number: MID048090633
Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN 3432 Polychlorinated biphenyls, solid, 9, PG11	1	DT	22,500	Kg	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: J094128WD1 / TSCA soil / Storage Start Date: 11-2-09 Unique Container ID: 5

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Mark Wilson As Agent for City of Elgin — Signature: Mark Wilson — Month 11 Day 2 Year 09

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Mark Wiebe 7172 — Signature: Mark Wiebe — Month 11 Day 2 Year 09
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: David Tomacki — Signature: [signature] — Month 11 Day 2 Year 09

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 001893723JJK, Line Item 1 has been landfilled on

11/2, 2009 in accordance with all local, state and federal regualtions by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

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

Authorized Signature: _____

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQIS - PMG
TRANSPORTATION & SITE SERVICES
2701 NORTH I-94 SERVICE DRIVE
YPSILANTI, MI 48198

Receipt ID: 1179359
EQ Account #: 99999
Manifest / BOL: 001893726JJK
Transporter: BEELMAN2
Date: 11/03/2009
Time In: 7:42 AM
Time Out: 8:30 AM

Line	Description Generator	Qty. Unit
1 - A	J094128WDI - TSCA Soil	25.690 TONS
	Hazardous Surcharge Ton	25.690 TONS
	ILR000048637 CITY OF ELGIN	
	Gross: 79,620 **Tare:** 28,240 **Net:** 51,380	

NO SALVAGING ON PREMISES

001893726JJK

(8)

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ILR000048637
2. Page 1 of: 1
3. Emergency Response Phone: 630 327 9611
4. Manifest Tracking Number: 001893726 JJK

5. Generator's Name and Mailing Address: City of Elgin, William Logly, 150 Dexter Ct, Elgin IL 60120, 847 9315659

Generator's Site Address (if different than mailing address): 20 Jefferson Ave, Elgin IL 60120

Generator's Phone:

6. Transporter 1 Company Name: Excelman — U.S. EPA ID Number: ILR000135236

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Wayne Disposal Inc, Sites Landfill, 49350 N I 94 Service Dr., Belleville MI 48111, 800 592-5489 — U.S. EPA ID Number: MID 048090633

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt/Vol.	13. Waste Codes
K	1. UN 3432 polychlorinated biphenyls solid, 9, PG II	1	DT	22,500	Kg	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: J074128WD1 / TSCA soil / Storage Start Date: 11-2-09 Unique Container ID 8

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Mark Wilson As Agent for City of Elgin — Signature: Mark Wilson — Month 11 Day 2 Year 09

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. — Port of entry/exit: — Transporter signature (for imports only): — Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: J. PRATT 9164 — Signature: Jim Pratt 9164 — Month 11 Day 4 Year 09

Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Michael Coughlin — Signature — Month 11 Day 10 Year 09

GENERATOR — INTL — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as pcbsolid

and specified on Manifest # 001893726 JK, Line Item 1 has been landfilled on

11/3, 2009 in accordance with all local, state and federal regualtions by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

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

Authorized Signature: _____

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQIS - PMG
TRANSPORTATION & SITE SERVICES
2701 NORTH I-94 SERVICE DRIVE
YPSILANTI, MI 48198

Receipt ID: 1179360
EQ Account #: 99999
Manifest / BOL: 001893725JJK
Transporter: BEELMAN2
Date: 11/03/2009
Time In: 7:51 AM
Time Out: 8:33 AM

Line	Description	Qty. Unit
	Generator	
1 - A	JC94128WDI - TSCA Soil	23.500 TONS
	Hazardous Surcharge Ton	23.500 TONS
	ILR000048637 CITY OF ELGIN	
	Gross: 77,980 **Tare:** 30,980 **Net:** 47,000	

NO SALVAGING ON PREMISES

001893725JJK

(7) 306-38656

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved OMB No. 2050-0

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ILR 000 048 637
2. Page 1 of: 1
3. Emergency Response Phone: 630 327 9681
4. Manifest Tracking Number: 001893725 JJK

5. Generator's Name and Mailing Address: City of Elgin William Lasky 150 Dexter Ct Elgin IL 60120 847 931 5659

Generator's Site Address (if different than mailing address): 20 Jefferson Ave Elgin IL 60120

Generator's Phone:

6. Transporter 1 Company Name: Beelman — U.S. EPA ID Number: ILR 000 135 236

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Wayne Disposal Inc Site 2 Landfill 49350 N I-94 Service Drive Belleville MI 48111 800 592 5489 — U.S. EPA ID Number: MID 048090633

Facility's Phone:

9a HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432 Polychlorinated biphenyls solid, 9, PG II	1	DT	22,500	Kg	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: J094128WD1 / TSCA soil / Storage Start Date: 11-2-09 Unique Container ID 7

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true

Generator's/Offeror's Printed/Typed Name: Mark Wilson As Agent for City of Elgin — Signature: Mark Wilson — Month 11 Day 2 Year 09

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Kenneth Jansen 306 — Signature: Kenneth Jansen — Month 11 Day 2 Year 09

Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Kenneth Woodard — Signature — Month 11 Day 09

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as pcb50/10

and specified on Manifest # 001893725JK, Line Item 1 has been landfilled on

11/3, 2009 in accordance with all local, state and federal regualtions by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

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

Authorized Signature: _____

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQIS - PMG
TRANSPORTATION & SITE SERVICES
2701 NORTH I-94 SERVICE DRIVE
YPSILANTI, MI 48198

Receipt ID: 1179361
EQ Account #: 99999
Manifest / BOL: 001893727JJK
Transporter: BEELMAN2
Date: 11/03/2009
Time In: 7:52 AM
Time Out: *8:36 AM*

Line	Description Generator	Qty. Unit
1 - A	J094128WDI - TSCA Soil	24.040 TONS
	Hazardous Surcharge Ton	24.040 TONS
	ILR000048637 CITY OF ELGIN	
	Gross: 76,300 **Tare:** 28,220 **Net:** 48,080	

NO SALVAGING ON PREMISES

001893727JJK

424

Beelman (9) TRK 424 TRC 39929

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ILR 000048437
2. Page 1 of: 1
3. Emergency Response Phone: 630 327 9681
4. Manifest Tracking Number: 001893727 JJK

5. Generator's Name and Mailing Address: City of Elgin, William Cogley, 150 Dexter Ct, Elgin, IL 60120 8479315859

Generator's Site Address (if different than mailing address): 20 Jefferson Ave, Elgin IL 60120

Generator's Phone:

6. Transporter 1 Company Name: Beelman — U.S. EPA ID Number: ILR 000 135 236

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Waste Disposal Inc Site 2 Landfill, 49350 N I-94 Service Drive, Belleville, MI 48111 800 592 5489 — U.S. EPA ID Number: MID 048090633

Facility's Phone:

GENERATOR

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN 3432 polychlorinated biphenyls solid, 9, PG II	1	DT	22,500	Kg	PCBI
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: J094128WD1 / TSCA soil / storage start date 11-2-09 Unique Container ID 9

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Mark Wilson As Agent for City of Elgin — Signature: Mark Wilson — Month 11 Day 2 Year 09

INTL

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Tom McCord — Signature: Tom McCord — Month 11 Day 2 Year 09
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name — Signature — Month 11 Day 13 Year 09

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as pcb solid

and specified on Manifest # 001893727JJK, Line Item 1 has been landfilled on

11/3, 2009 in accordance with all local, state and federal regualtions by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

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

Authorized Signature:

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQIS - PMG
TRANSPORTATION & SITE SERVICES
2701 NORTH I-94 SERVICE DRIVE
YPSILANTI, MI 48198

Receipt ID: 1179398
EQ Account #: 99999
Manifest / BOL: 001893728JJK
Transporter: BEELMAN2
Date: 11/03/2009
Time In: 2:08 PM
Time Out: 2:46 PM

Line	Description Generator	Qty. Unit
1 - A	J094128WDI - TSCA Soil	24.610 TONS
	Hazardous Surcharge Ton	24.610 TONS
	ILR000048637 CITY OF ELGIN	
	Gross: 77,040 **Tare:** 27,820 **Net:** 49,220	

NO SALVAGING ON PREMISES

001893728JJK

(10)

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ILR 000 048 637
2. Page 1 of: 1
3. Emergency Response Phone: 630 327 9681
4. Manifest Tracking Number: 001893728 JJK

5. Generator's Name and Mailing Address: City of Elgin William Logsky 150 Dexter Court Elgin IL 60120 847 931 5859
Generator's Site Address (if different than mailing address): 20 Jefferson Ave Elgin IL 60120
Generator's Phone:

6. Transporter 1 Company Name: Beelman — U.S. EPA ID Number: ILR 000 135 236

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Wayne Disposal, Inc Site 2 Landfill 49350 N-I-94 Service Dr. Belleville MI 48111 808 592 5489 — U.S. EPA ID Number: MID048 090 633
Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
✓	1. UN 3432 polychlorinated biphenyls solid 9 PG II	1	DT	22,500	Kg	PCB1		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information: J09412BWDI /TSCA soil / storage start date: 11-3-09 Unique container ID 10

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Mark Wilson As Agent for City of Elgin — Signature: Mark Wilson — Month 11 Day 3 Year 09

16. International Shipments: ☐ Import to U.S. ☑ Export from U.S. — Port of entry/exit: ____
Transporter signature (for exports only): — Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jerry Knapp 7177/38628 — Signature: Jerry Knapp — Month 11 Day 3 Year 09
Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

18. Discrepancy
18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name — Signature — Month 11 Day 09

GENERATOR — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB SOLID

and specified on Manifest # 001893728JJK, Line Item 1 has been landfilled on

11/3, 2009 in accordance with all local, state and federal regualtions by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

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

Authorized Signature: _____

001893728JJK

THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

Form # REG-FM-014-REV

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

12/12/08

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQIS - PMG
TRANSPORTATION & SITE SERVICES
2701 NORTH I-94 SERVICE DRIVE
YPSILANTI, MI 48198

Receipt ID: 1179399
EQ Account #: 99999
Manifest / BOL: 001893729JJK
Transporter: BEELMAN2
Date: 11/03/2009
Time In: 2:11 PM
Time Out: 3:13 PM

Line	Description Generator	Qty. Unit
1 - A	J094128WDI - TSCA Soil	25.750 TONS
	Hazardous Surcharge Ton	25.750 TONS
	ILR000048637 CITY OF ELGIN	
	Gross: 79,360 **Tare:** 27,860 **Net:** 51,500	

NO SALVAGING ON PREMISES

001893729JJK

6191 11

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ILR000048637
2. Page 1 of: 1
3. Emergency Response Phone: 630 3279681
4. Manifest Tracking Number: 001893729 JJK

GENERATOR

5. Generator's Name and Mailing Address: City of Elgin, William Cogley, 150 Dexter Court, Elgin IL 60120 8479315659
Generator's Site Address (if different than mailing address): 20 Jefferson Av, Elgin, IL
Generator's Phone:

6. Transporter 1 Company Name: Beelman — U.S. EPA ID Number: ILR000135236

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Wayne Disposal Inc. Site 2 Landfill, 49350 NI-94 Service Drive, Belleville, MI 48111 800 592 5458 — U.S. EPA ID Number: MID048090633
Facility's Phone:

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432 Polychlorinated Biphenyls Solid 9 PG II	1	DT	22,500	Kg	PCB
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: J074128WD1 / TSCA soil / storage start date: 11-3-09 unique container ID: 11

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Mark Wilson As Agent for City of Elgin — Signature: Mark Wilson — Month 11 Day 3 Year 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Ray Stiff — Signature: Ray Stiff — Month 11 Day 3 Year 09
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. M132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name — Signature — Month Day Year 11 03 09

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)**

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB SOLID

and specified on Manifest # 001893729JJK, Line Item 1 has been landfilled on

11/3, 2009 in accordance with all local, state and federal regualtions by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

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

Authorized Signature: _____

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQIS - PMG
TRANSPORTATION & SITE SERVICES
2701 NORTH I-94 SERVICE DRIVE
YPSILANTI, MI 48198

Receipt ID: 1179408
EQ Account #: 99999
Manifest / BOL: 001893730JJK
Transporter: BEELMAN2
Date: 11/04/2009
Time In: 7:35 AM
Time Out: 8:07 AM

Line	Description Generator	Qty. Unit
1 - A	JC94128WDI - TSCA Soil	24.440 TONS
	Hazardous Surcharge Ton	24.440 TONS
	ILR000048637 CITY OF ELGIN	
	Gross: 79,560 **Tare:** 30,680 **Net:** 48,880	

NO SALVAGING ON PREMISES

001893730JJK

12 #306 38656

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ILR000048637
2. Page 1 of: 1
3. Emergency Response Phone: 630 327 9481
4. Manifest Tracking Number: 001893730 JJK

5. Generator's Name and Mailing Address: City of Elgin William Lagley 150 Dexter St Elgin IL 60120 847 9315659
Generator's Site Address (if different than mailing address): 20 Jefferson Ave Elgin IL
Generator's Phone:

6. Transporter 1 Company Name: Beelman — U.S. EPA ID Number: ILR000135236

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Waste Disposal Inc Site 2 Landfill 49350 N I-94 Service Drive Belleville MI 48111 800 592 5459 — U.S. EPA ID Number: MID048090633
Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432 polychlorinated biphenyls solid 9 PG II	1	DT	22,500	Kg	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: J094128WD1 / TSCA soil / storage start date: 11-3-09 unique container id 12

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Mark Wilson As Agent for City of Elgin — Signature: Mark Wilson — Month 11 Day 3 Year 09

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Kenneth Jansen #306 38656 — Signature: Kenneth Jansen — Month 11 Day 3 Year 09

Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Tony Howard — Signature — Month 11 Day 04 Year 09

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)**

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as pcbsolid

and specified on Manifest # 001893730JK, Line Item 1 has been landfilled on

11/4, 2009 in accordance with all local, state and federal regualtions by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

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

Authorized Signature: _____

Wayne Disposal, Inc.

49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

EQIS - PMG
TRANSPORTATION & SITE SERVICES
2701 NORTH I-94 SERVICE DRIVE
YPSILANTI, MI 48198

Receipt ID: 1179430
EQ Account #: 99999
Manifest / BOL: 001893731JJK
Transporter: BEELMAN2
Date: 11/04/2009
Time In: 3:33 PM
Time Out: 4:06 PM

Line	Description Generator	Qty. Unit
1 - A	J094128WDI - TSCA Soil	17.370 TONS
	Hazardous Surcharge Ton	17.370 TONS
	ILR000048637 CITY OF ELGIN	
	Gross: 63,840 **Tare:** 29,100 **Net:** 34,740	

NO SALVAGING ON PREMISES

001893731JJK

9164

(13)

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
ILR000048 637	1	630 327 9681	001893731 JJK

5. Generator's Name and Mailing Address: City of Elgin, 150 Dexter Ct, Elgin, IL 60120 — William Cogley — 847 931 5659

Generator's Site Address (if different than mailing address): 20 Jefferson Ave, Elgin

Generator's Phone:

6. Transporter 1 Company Name: Beelman — U.S. EPA ID Number: ILR000 135 236

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Wayne Disposal Inc. Site 2 Landfill, 49350 N I94 Service Drive, Belleville MI 48111 — U.S. EPA ID Number: MID048090033

Facility's Phone: 800 592 5459

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
✓	1. UN3432 Polychlorinated biphenyls SOLID 9 PG11	1	DT	22,500	Kg	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: JS94128WD1 / TSCA SOIL — storage start date: 11-4-09 — unique container id: 13

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable International and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Mark Wilson As Agent for City of Elgin — Signature: Mark Wilson — Month 11 Day 4 Year 09

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Tim Pratt — Signature: [signature] — Month 11 Day 4 Year 09

Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: [signature] — Signature: [signature] — Month 11 Day 04 Year 09

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as pcb solid

and specified on Manifest # 001893731JJK, Line Item 1 has been landfilled on

11/4, 2009 in accordance with all local, state and federal regualtions by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

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

Authorized Signature: _____

001893731JJK

APPENDIX J

NON-TSCA WASTE -
WASTE PROFILE/MANIFEST/SCALE TICKETS

VEOLIA
ENVIRONMENTAL SERVICES

Profile #:

Special Waste Profile Sheet

Designated Facility: **Orchard Hills Landfill** Sales Representative:

A. Generator

Name:	City of Elgin
Site Address:	20 Jefferson Ave
City, State, Zip:	Elgin, IL 60120
Contact:	William A. Cogley
Phone:	847-931-5659
Fax:	847-931-5665

B. Billing

Name:	EQ-The Environmental Quality Company
Address:	36255 Michigan Ave.
City, State, Zip:	Wayne, MI 48184
Contact:	Ron Evenson
Phone:	630-688-0123
Fax:	630-208-9165

C. Description of Waste

Name of Waste: **Non-hazardous soils and debris from remedial actions**

Process Generating Waste: *Site remedial activities from former scrap yard cleanup*

Estimated Volume: *1300 Tons* *Frequency:* *One-time*

Special Handling Instructions:

D. Chemical Composition/Physical Properties

Constituents	Concentration
Soil	90-100%
Concrete	5-10%

Physical State:	*Solid*	*Color:*	*Varies*
Free Liquids:	*None*	*Flashpoint:*	*N/A*
pH:	*5-10*	*Total Solids:*	*100*
Reactive Cyanide:	n/a	*Reactive Sulfide:*	n/a

F. Sample/Analysis Information

☐ *Sample submitted with profile* ■ *Laboratory analysis submitted* ☐ *Material Data Safety Sheet submitted*

Laboratory Name: *First Envr Labs* *Sample Date:* *01/04/08* *Sample ID:* *varies*

G. Generator Certifications

1. *This waste is not a hazardous waste as defined by federal, state, or local laws and regulations.*
2. *This waste does not contain regulated quantities of PCBs as defined by federal, state or local laws and regulations.*
3. *This waste does not contain infectious wastes as defined by federal, state, or local laws and regulations.*
4. *To the best of my knowledge, all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any analysis submitted was performed on a representative sample as defined in 40 CFR 261 -Appendix 1 and was obtained by using this or an equivalent sampling method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed.*

Generator's Signature: ***Title:***

Print Name: ***Date:***

First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

January 15, 2008

Mr. Mark Wilson
TERRACON CONSULTANTS, INC.
135 Ambassador Drive
Naperville, IL 60540

Project ID: 11077052
First Environmental File ID: 8-0040
Date Received: January 04, 2008

Dear Mr. Mark Wilson:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 001767: effective 06/11/07 through 02/28/08.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Stan Zaworski
Project Manager

First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Case Narrative

TERRACON CONSULTANTS, INC.

Project ID: **11077052**

First Environmental File ID: **8-0040**

Date Received: **January 04, 2008**

Flag	Description	Flag	Description
<	Analyte not detected at or above the reporting limit.	L+	LCS recovery outside control limits; high bias.
B	Analyte detected in associated method blank.	L-	LCS recovery outside control limits; low bias.
C	Identification confirmed by GC/MS.	M	MS recovery outside control limits; LCS acceptable.
D	Surrogates diluted out; recovery not available.	M+	MS recovery outside control limits high bias; LCS acceptable.
E	Estimated result; concentration exceeds calibration range.	M-	MS recovery outside control limits low bias; LCS acceptable.
F	Field measurement.	N	Analyte is not part of our NELAC accreditation.
		ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.
G	Surrogate recovery outside control limits; matrix effect.	P	Chemical preservation pH adjusted in lab.
H	Analysis or extraction holding time exceeded.	Q	The analyte was determined by a GC/MS database search.
J	Estimated result; concentration is less than calib range.	S	Analyte was sub-contracted to another laboratory for analysis.
K	RPD outside control limits.	T	Sample temperature upon receipt exceeded 0-6°C
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	W	Reporting limit elevated due to sample matrix.

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

Sample Batch Comments:

Sample acceptance criteria were met.

Method Comments

Lab Number	Sample ID	Comments:
8-0040-001	JSS-6	*Polychlorinated biphenyls (PCBs)* The reporting limits are elevated due to matrix interference.
8-0040-001	JSS-6	*Polynuclear Aromatic Hydrocarbons* The reporting limits are elevated due to matrix interference.
8-0040-006	JSS-11	*Total Metals* The reporting limits are elevated due to matrix interference.
8-0040-006	JSS-11	*Polynuclear Aromatic Hydrocarbons* The reporting limits are elevated due to matrix interference.

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: TERRACON CONSULTANTS, INC.
Project ID: 11077052
Sample ID: JSS-7
Sample No: 8-0040-002

Date Collected: 01/04/08
Time Collected: 9:30
Date Received: 01/04/08
Date Reported: 01/15/08

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 160.3**				
Analysis Date: 01/07/08				
Total Solids	80.72		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 01/07/08				
Acetone	< 100	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: TERRACON CONSULTANTS, INC.
Project ID: 11077052
Sample ID: JSS-7
Sample No: 8-0040-002
Date Collected: 01/04/08
Time Collected: 9:30
Date Received: 01/04/08
Date Reported: 01/15/08

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 01/07/08				
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Polynuclear Aromatic Hydrocarbons **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 01/09/08		Preparation Date: 01/07/08		
Acenaphthene	< 50	50	ug/kg	
Acenaphthylene	< 50	50	ug/kg	
Anthracene	< 50	50	ug/kg	
Benzo(a)anthracene	214	8.7	ug/kg	
Benzo(a)pyrene	263	15	ug/kg	
Benzo(b)fluoranthene	341	11	ug/kg	
Benzo(k)fluoranthene	261	11	ug/kg	
Benzo(ghi)perylene	246	50	ug/kg	
Chrysene	343	50	ug/kg	
Dibenzo(a,h)anthracene	105	20	ug/kg	
Fluoranthene	557	50	ug/kg	
Fluorene	< 50	50	ug/kg	
Indeno(1,2,3-cd)pyrene	259	29	ug/kg	
Naphthalene	26	25	ug/kg	
Phenanthrene	283	50	ug/kg	
Pyrene	527	50	ug/kg	
Polychlorinated biphenyls (PCBs) **Method: 8082**		**Preparation Method 3540C**		
Analysis Date: 01/10/08		Preparation Date: 01/07/08		
Aroclor 1016	< 80.0	80.0	ug/kg	
Aroclor 1221	< 80.0	80.0	ug/kg	
Aroclor 1232	< 80.0	80.0	ug/kg	
Aroclor 1242	< 80.0	80.0	ug/kg	
Aroclor 1248	1,480	80.0	ug/kg	
Aroclor 1254	6,350	160	ug/kg	
Aroclor 1260	< 160	160	ug/kg	

First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client:	TERRACON CONSULTANTS, INC.	**Date Collected:**	01/04/08
Project ID:	11077052	**Time Collected:**	9:30
Sample ID:	JSS-7	**Date Received:**	01/04/08
Sample No:	8-0040-002	**Date Reported:**	01/15/08

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010B**		**Preparation Method 3050B**		
Analysis Date: 01/14/08		Preparation Date: 01/08/08		
Antimony	13.1	1.0	mg/kg	
Arsenic	9.8	0.2	mg/kg	
Beryllium	1.2	0.1	mg/kg	
Cadmium	11.5	0.1	mg/kg	
Chromium	183	0.1	mg/kg	
Copper	384	0.1	mg/kg	
Lead	1,930	0.2	mg/kg	
Nickel	136	0.1	mg/kg	
Selenium	< 20	0.2	mg/kg	
Silver	1.6	0.1	mg/kg	
Thallium	< 100	1.0	mg/kg	
Zinc	1,500	0.5	mg/kg	
Total Metals **Method: 7470A**				
Analysis Date: 01/09/08				
Mercury	2.74	0.05	mg/kg	

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: TERRACON CONSULTANTS, INC.
Project ID: 11077052
Sample ID: JSS-8
Sample No: 8-0040-003

Date Collected: 01/04/08
Time Collected: 10:00
Date Received: 01/04/08
Date Reported: 01/15/08

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 160.3**				
Analysis Date: 01/07/08				
Total Solids	64.62		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 01/07/08				
Acetone	912	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: TERRACON CONSULTANTS, INC.
Project ID: 11077052
Sample ID: JSS-8
Sample No: 8-0040-003

Date Collected: 01/04/08
Time Collected: 10:00
Date Received: 01/04/08
Date Reported: 01/15/08

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 01/07/08				
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Polynuclear Aromatic Hydrocarbons **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 01/09/08		Preparation Date: 01/07/08		
Acenaphthene	< 50	50	ug/kg	
Acenaphthylene	< 50	50	ug/kg	
Anthracene	185	50	ug/kg	
Benzo(a)anthracene	406	8.7	ug/kg	
Benzo(a)pyrene	381	15	ug/kg	
Benzo(b)fluoranthene	566	11	ug/kg	
Benzo(k)fluoranthene	541	11	ug/kg	
Benzo(ghi)perylene	261	50	ug/kg	
Chrysene	907	50	ug/kg	
Dibenzo(a,h)anthracene	125	20	ug/kg	
Fluoranthene	2,500	50	ug/kg	
Fluorene	55	50	ug/kg	
Indeno(1,2,3-cd)pyrene	271	29	ug/kg	
Naphthalene	45	25	ug/kg	
Phenanthrene	712	50	ug/kg	
Pyrene	2,840	50	ug/kg	
Polychlorinated biphenyls (PCBs) **Method: 8082**		**Preparation Method 3540C**		
Analysis Date: 01/10/08		Preparation Date: 01/07/08		
Aroclor 1016	< 80.0	80.0	ug/kg	
Aroclor 1221	< 80.0	80.0	ug/kg	
Aroclor 1232	< 80.0	80.0	ug/kg	
Aroclor 1242	< 80.0	80.0	ug/kg	
Aroclor 1248	18,700	80.0	ug/kg	
Aroclor 1254	21,800	160	ug/kg	
Aroclor 1260	< 160	160	ug/kg	

First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client:	TERRACON CONSULTANTS, INC.	**Date Collected:**	01/04/08
Project ID:	11077052	**Time Collected:**	10:00
Sample ID:	JSS-8	**Date Received:**	01/04/08
Sample No:	8-0040-003	**Date Reported:**	01/15/08

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010B**		**Preparation Method 3050B**		
Analysis Date: 01/14/08		Preparation Date: 01/08/08		
Antimony	10.8	1.0	mg/kg	
Arsenic	6.5	0.2	mg/kg	
Beryllium	0.5	0.1	mg/kg	
Cadmium	26.0	0.1	mg/kg	
Chromium	82.3	0.1	mg/kg	
Copper	5,040	0.1	mg/kg	
Lead	836	0.2	mg/kg	
Nickel	133	0.1	mg/kg	
Selenium	< 20	0.2	mg/kg	
Silver	1.2	0.1	mg/kg	
Thallium	< 100	1.0	mg/kg	
Zinc	2,770	0.5	mg/kg	
Total Metals **Method: 7470A**				
Analysis Date: 01/08/08				
Mercury	4.35	0.05	mg/kg	

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Analytical Report

Client: TERRACON CONSULTANTS, INC.
Project ID: 11077052
Sample ID: JSS-9
Sample No: 8-0040-004

Date Collected: 01/04/08
Time Collected: 10:30
Date Received: 01/04/08
Date Reported: 01/15/08

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 160.3**				
Analysis Date: 01/07/08				
Total Solids	85.91		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 01/08/08				
Acetone	< 100	100	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
trans-1,3-Dichloropropene	< 5.0	5.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	

First Environmental Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: TERRACON CONSULTANTS, INC.
Project ID: 11077052
Sample ID: JSS-9
Sample No: 8-0040-004

Date Collected: 01/04/08
Time Collected: 10:30
Date Received: 01/04/08
Date Reported: 01/15/08

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 01/08/08				
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Polynuclear Aromatic Hydrocarbons **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 01/09/08		Preparation Date: 01/07/08		
Acenaphthene	< 50	50	ug/kg	
Acenaphthylene	< 50	50	ug/kg	
Anthracene	72	50	ug/kg	
Benzo(a)anthracene	227	8.7	ug/kg	
Benzo(a)pyrene	177	15	ug/kg	
Benzo(b)fluoranthene	128	11	ug/kg	
Benzo(k)fluoranthene	227	11	ug/kg	
Benzo(ghi)perylene	166	50	ug/kg	
Chrysene	389	50	ug/kg	
Dibenzo(a,h)anthracene	42	20	ug/kg	
Fluoranthene	344	50	ug/kg	
Fluorene	< 50	50	ug/kg	
Indeno(1,2,3-cd)pyrene	136	29	ug/kg	
Naphthalene	748	25	ug/kg	
Phenanthrene	638	50	ug/kg	
Pyrene	468	50	ug/kg	
Polychlorinated biphenyls (PCBs) **Method: 8082**		**Preparation Method 3540C**		
Analysis Date: 01/10/08		Preparation Date: 01/07/08		
Aroclor 1016	< 80.0	80.0	ug/kg	
Aroclor 1221	< 80.0	80.0	ug/kg	
Aroclor 1232	< 80.0	80.0	ug/kg	
Aroclor 1242	< 80.0	80.0	ug/kg	
Aroclor 1248	1,680	80.0	ug/kg	
Aroclor 1254	6,840	160	ug/kg	
Aroclor 1260	< 160	160	ug/kg	

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Analytical Report

Client: TERRACON CONSULTANTS, INC.
Project ID: 11077052
Sample ID: JSS-9
Sample No: 8-0040-004

Date Collected: 01/04/08
Time Collected: 10:30
Date Received: 01/04/08
Date Reported: 01/15/08

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals **Method: 6010B**		**Preparation Method 3050B**		
Analysis Date: 01/14/08		Preparation Date: 01/08/08		
Antimony	12.7	1.0	mg/kg	
Arsenic	12.9	0.2	mg/kg	
Beryllium	12.2	0.1	mg/kg	
Cadmium	11.9	0.1	mg/kg	
Chromium	172	0.1	mg/kg	
Copper	2,810	0.1	mg/kg	
Lead	766	0.2	mg/kg	
Nickel	110	0.1	mg/kg	
Selenium	< 20	0.2	mg/kg	
Silver	1.5	0.1	mg/kg	
Thallium	< 100	1.0	mg/kg	
Zinc	8,740	0.5	mg/kg	
Total Metals **Method: 7470A**				
Analysis Date: 01/08/08				
Mercury	3.32	0.05	mg/kg	

CHAIN OF CUSTODY RECORD

First Environmental Laboratories, Inc.

First Environmental Laboratories
1600 Shore Road, Suite D
Naperville, Illinois 60563
Phone: (630) 778-1200 • Fax: (630) 778-1233
24 Hr. Pager (708) 569-7507
E-mail: info@firstenv.com
IEPA Certification# 100292

Company Name: Terracon
Street Address: 135 Ambassador Dr.
City: Naperville State: IL Zip: 60540
Phone: 630-717-4263 Fax: e-mail:
Send Report To: Mark Wilson Via: Fax ☐ e-mail ☒
Sampled By: Mark Wilson

Project I.D.: 11077052
P.O. #.:

Matrix Codes: S = Soil W = Water O = Other

Analyses

Date/Time Taken	Sample Description	Matrix	PCBs	PNAs	PP Metals	VOCs	Reactive CN	Reactive Sulfide	Flash Point/Corrosivity	TCLP Metals	Comments	Lab I.D.
1-4-08 / 9:00	JSS-6	S	X	X	X	X						
1-4-08 / 9:30	JSS-7	S	X	X	X	X						
1-4-08 / 10:00	JSS-8	S	X	X	X	X						
1-4-08 / 10:30	JSS-9	S	X	X	X	X						
1-4-08 / 11:00	JSS-10	S	X	X	X	X						
1-4-08 / 11:30	JSS-11	S	X	X	X	X						
1-4-08 / 11:45	JWC-1	S					X	X	X	X	Composite of (JSS-1 → JSS-5, JSS-9 → JSS-11)	

FOR LAB USE ONLY:

Cooler Temperature: 0.1-6ºC Yes__ No.__ _____ºC
Received within 6 hrs. of collection:_____
Ice Present: Yes__ No__

Sample Refrigerated: Yes__ No__
Refrigerator Temperature:_____ºC
5035 Vials Frozen: Yes__ No__
Freezer Temperature:_____ºC

Containers Received Preserved: ☐ Yes ☐ No

Notes and Special Instructions: _____

Relinquished By: Mark Wilson Date/Time 1-4-08 / 5:00 Received By: [signature] Date/Time 1/4/08 5:00
Relinquished By: _____ Date/Time _____ Received By: _____ Date/Time _____

Rev. 4/06

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Pace Analytical™

www.pacelabs.com

Report Prepared for:

Mark Wilson
Terracon, Inc.
135 Ambassador Drive
Naperville IL 60540

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Information:

Pace Project #: 1065913
Sample Receipt Date: 01/05/2008
Client Project #: 11077052
Client Sub PO #: N/A
State Cert #: 000703

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed and prepared by:

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com

ACCREDITED IN ACCORDANCE WITH nelac

Report of Laboratory Analysis

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Report Prepared Date:
February 8, 2008

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analyses performed on four samples submitted by a representative of Terracon. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. Reporting limits were set to correspond to one-fifth of the lowest calibration points.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 27-114%. With the exceptions of two low values, which were flagged "P" on the results table, the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In one case, an interfering substance impacted the determination of a PCDF congener. The affected value was flagged "E" due to the presence of a polychlorinated diphenyl ether.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to be free of PCDDs and PCDFs at the reporting limits, with the exception of a trace level of OCDD. This was below the calibration range of the method. The OCDD levels reported for the field samples were higher than the OCDD level in the blank by one or more orders of magnitude. These results indicate that the sample processing steps did not contribute significantly to the levels reported for the field samples.

A laboratory spike sample was also prepared with the sample batch using clean sand that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 84-100%. These results indicate a high degree of accuracy for these determinations. Matrix spikes were also prepared with the extraction batch using sample material from a separate project; results from analyses of these extracts will be provided upon request.

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Appendix A

Sample Management

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1065913

Page: 1 of 1

Section A Required Client Information:

Company: Terracon
Address: 135 Ambassador Dr
Naperville IL 60540
Email To: mr wilson@Terracon.com
Phone: 630 717 4263 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Terracon
Copy To:
Purchase Order No.:
Project Name:
Project Number: 11077052

Section C Invoice Information:

Attention: Mark Wilson
Company Name: Terracon
Address:
Pace Quote Reference:
Pace Project Manager: Carolynne Trout
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☑ RCRA ☑ OTHER IEPA

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Y/N; Analysis Test: Dioxins/Furans low level 8290

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	JSS-7	SL	G	1-4-08	9:30				1	✓								✓		001
2	JSS-8	SL	G	1-4-08	10:00				1	✓								✓		002
3	JSS-9	SL	G	1-4-08	10:30				1	✓								✓		003
4	JSS-11	SL	G	1-4-08	11:30				1	✓								✓		004
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
Method per Mark W. @ 01/08/08	Mark Wilson	1-4-08	3:00	[illegible]	010508	0950	2.9 Y	Y	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Mark Wilson
SIGNATURE of SAMPLER: Mark Wilson
DATE Signed (MM/DD/YY): 01/04/08

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Report No.....1065913_8290

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: Terracon Project # 1065913

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8524 2857 5781

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals Intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

Thermometer Used 230194010, 72310129 Type of Ice: (Wet) Blue None ☐ Samples on Ice, cooling process has begun

Cooler Temperature 2.9 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: MB 010508

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☐No	☑N/A	6.
Rush Turn Around Time Requested:	☐Yes	☐No	☑N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☐Yes	☑No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: SL				
All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No		Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 01/07/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-ALL-C003rev.3, 11September2006

Appendix B

Sample Analysis Summary

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Sample Analysis Results

Client - Terracon, Inc.

Client's Sample ID	JSS-7		
Lab Sample ID	1065913001		
Filename	F80202A_07		
Injected By	BPG		
Total Amount Extracted	11.4 g	Matrix	Solid
% Moisture	20.7	Dilution	NA
Dry Weight Extracted	9.06 g	Collected	01/04/2008
ICAL Date	12/28/2007	Received	01/05/2008
CCal Filename(s)	F80201A_21 & F80202A_16	Extracted	01/28/2008
Method Blank ID	BLANK-15354	Analyzed	02/02/2008 06:47

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	110.0	—	0.22		2,3,7,8-TCDF-13C	2.00	102
Total TCDF	810.0	—	0.22		2,3,7,8-TCDD-13C	2.00	98
					1,2,3,7,8-PeCDF-13C	2.00	95
2,3,7,8-TCDD	4.4	—	0.22		2,3,4,7,8-PeCDF-13C	2.00	98
Total TCDD	92.0	—	0.22		1,2,3,7,8-PeCDD-13C	2.00	114
					1,2,3,4,7,8-HxCDF-13C	2.00	105
1,2,3,7,8-PeCDF	120.0	—	1.10		1,2,3,6,7,8-HxCDF-13C	2.00	89
2,3,4,7,8-PeCDF	79.0	—	1.10		2,3,4,6,7,8-HxCDF-13C	2.00	93
Total PeCDF	1000.0	—	1.10		1,2,3,7,8,9-HxCDF-13C	2.00	89
					1,2,3,4,7,8-HxCDD-13C	2.00	107
1,2,3,7,8-PeCDD	11.0	—	1.10		1,2,3,6,7,8-HxCDD-13C	2.00	97
Total PeCDD	170.0	—	1.10		1,2,3,4,6,7,8-HpCDF-13C	2.00	81
					1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	—	180	1.10	E	1,2,3,4,6,7,8-HpCDD-13C	2.00	88
1,2,3,6,7,8-HxCDF	110.0	—	1.10		OCDD-13C	4.00	58
2,3,4,6,7,8-HxCDF	93.0	—	1.10				
1,2,3,7,8,9-HxCDF	42.0	—	1.10		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	760.0	—	1.10		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	15.0	—	1.10		2,3,7,8-TCDD-37Cl4	0.20	99
1,2,3,6,7,8-HxCDD	34.0	—	1.10				
1,2,3,7,8,9-HxCDD	21.0	—	1.10				
Total HxCDD	380.0	—	1.10				
1,2,3,4,6,7,8-HpCDF	640.0	—	1.10		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	120.0	—	1.10		Equivalence: 110 ng/Kg		
Total HpCDF	1000.0	—	1.10		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	380.0	—	1.10				
Total HpCDD	740.0	—	1.10				
OCDF	770.0	—	2.20				
OCDD	1800.0	—	2.20				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
E = PCDE Interference

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Sample Analysis Results

Client - Terracon, Inc.

Client's Sample ID	JSS-8		
Lab Sample ID	1065913002		
Filename	F80202A_14		
Injected By	BPG		
Total Amount Extracted	15.4 g	Matrix	Solid
% Moisture	36.9	Dilution	NA
Dry Weight Extracted	9.72 g	Collected	01/04/2008
ICAL Date	12/28/2007	Received	01/05/2008
CCal Filename(s)	F80201A_21 & F80202A_16	Extracted	01/28/2008
Method Blank ID	BLANK-15354	Analyzed	02/02/2008 12:19

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	270	—	0.32	A	2,3,7,8-TCDF-13C	2.00	92
Total TCDF	1400	—	0.32		2,3,7,8-TCDD-13C	2.00	91
					1,2,3,7,8-PeCDF-13C	2.00	87
2,3,7,8-TCDD	14	—	0.30	A	2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	310	—	0.30		1,2,3,7,8-PeCDD-13C	2.00	95
					1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	310	—	1.00		1,2,3,6,7,8-HxCDF-13C	2.00	81
2,3,4,7,8-PeCDF	240	—	1.00		2,3,4,6,7,8-HxCDF-13C	2.00	72
Total PeCDF	2400	—	1.00		1,2,3,7,8,9-HxCDF-13C	2.00	71
					1,2,3,4,7,8-HxCDD-13C	2.00	86
1,2,3,7,8-PeCDD	54	—	1.00		1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD	640	—	1.00		1,2,3,4,6,7,8-HpCDF-13C	2.00	47
					1,2,3,4,7,8,9-HpCDF-13C	2.00	36 P
1,2,3,4,7,8-HxCDF	590	—	1.00		1,2,3,4,6,7,8-HpCDD-13C	2.00	50
1,2,3,6,7,8-HxCDF	340	—	1.00		OCDD-13C	4.00	27 P
2,3,4,6,7,8-HxCDF	150	—	1.00				
1,2,3,7,8,9-HxCDF	140	—	1.00		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	3100	—	1.00		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	44	—	1.00		2,3,7,8-TCDD-37Cl4	0.20	138
1,2,3,6,7,8-HxCDD	150	—	1.00	A			
1,2,3,7,8,9-HxCDD	76	—	1.00				
Total HxCDD	1500	—	1.00				
1,2,3,4,6,7,8-HpCDF	2300	—	2.10	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	410	—	2.60	A	Equivalence: 420 ng/Kg		
Total HpCDF	4500	—	2.30		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	2300	—	1.00				
Total HpCDD	4300	—	1.00				
OCDF	4000	—	2.10				
OCDD	17000	—	2.10				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
A = Reporting Limit based on signal to noise
P = Recovery outside target range

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Sample Analysis Results

Client - Terracon, Inc.

Client's Sample ID	JSS-9		
Lab Sample ID	1065913003		
Filename	F80202A_08		
Injected By	BPG		
Total Amount Extracted	13.4 g	Matrix	Solid
% Moisture	16.2	Dilution	NA
Dry Weight Extracted	11.2 g	Collected	01/04/2008
ICAL Date	12/28/2007	Received	01/05/2008
CCal Filename(s)	F80201A_21 & F80202A_16	Extracted	01/28/2008
Method Blank ID	BLANK-15354	Analyzed	02/02/2008 07:35

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	160.0	—	0.18	2,3,7,8-TCDF-13C	2.00	96
Total TCDF	1500.0	—	0.18	2,3,7,8-TCDD-13C	2.00	97
				1,2,3,7,8-PeCDF-13C	2.00	92
2,3,7,8-TCDD	8.0	—	0.18	2,3,4,7,8-PeCDF-13C	2.00	94
Total TCDD	170.0	—	0.18	1,2,3,7,8-PeCDD-13C	2.00	109
				1,2,3,4,7,8-HxCDF-13C	2.00	79
1,2,3,7,8-PeCDF	200.0	—	0.89	1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	280.0	—	0.89	2,3,4,6,7,8-HxCDF-13C	2.00	72
Total PeCDF	4000.0	—	0.89	1,2,3,7,8,9-HxCDF-13C	2.00	71
				1,2,3,4,7,8-HxCDD-13C	2.00	86
1,2,3,7,8-PeCDD	28.0	—	0.89	1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD	420.0	—	0.89	1,2,3,4,6,7,8-HpCDF-13C	2.00	66
				1,2,3,4,7,8,9-HpCDF-13C	2.00	55
1,2,3,4,7,8-HxCDF	530.0	—	0.89	1,2,3,4,6,7,8-HpCDD-13C	2.00	73
1,2,3,6,7,8-HxCDF	180.0	—	0.89	OCDD-13C	4.00	51
2,3,4,6,7,8-HxCDF	470.0	—	0.89			
1,2,3,7,8,9-HxCDF	140.0	—	0.89	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	4100.0	—	0.89	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	41.0	—	0.89	2,3,7,8-TCDD-37Cl4	0.20	104
1,2,3,6,7,8-HxCDD	140.0	—	0.89			
1,2,3,7,8,9-HxCDD	78.0	—	0.89			
Total HxCDD	1300.0	—	0.89			
1,2,3,4,6,7,8-HpCDF	2400.0	—	0.89	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	440.0	—	0.89	Equivalence: 390 ng/Kg		
Total HpCDF	3200.0	—	0.89	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	1400.0	—	0.89			
Total HpCDD	2700.0	—	0.89			
OCDF	3700.0	—	1.80			
OCDD	5100.0	—	1.80			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Grant Anderson
Conestoga-Rovers & Assoc.,Inc.
PROJECT NO. 54633
ELGIN-JEFFERSON YARD

TestAmerica Laboratories, Inc.

SAMPLE SUMMARY

WO #	LABORATORY ID	SAMPLE IDENTIFICATION	
K28H0	A8K190148-001	S-111408-KW-001	SB-4 0-0.5'*
K28JE	A8K190148-002	S-111408-KW-002	SB-4 1-1.5'*
K28KM	A8K190148-003	S-111408-KW-003	SB-5 0-0.5'*
K28KP	A8K190148-004	S-111408-KW-004	SB-5 1-1.5'*
K28KR	A8K190148-005	S-111408-KW-005	SB-6 0-0.5'*
K28KW	A8K190148-006	S-111408-KW-006	SB-6 1-1.5'*
K28K1	A8K190148-007	S-111408-KW-007	SB-7 0-0.5'*
K28K3	A8K190148-008	S-111408-KW-008	SB-7 1-1.5'*
K28K5	A8K190148-009	S-111408-KW-009	SB-8 0-0.5'*
K28K7	A8K190148-010	S-111408-KW-010	SB-8 1-1.5'*
K28K9	A8K190148-011	S-111408-KW-011	SB-9 0-0.5'*
K28LD	A8K190148-012	S-111408-KW-012	SB-9 1-1.5'*
K28LG	A8K190148-013	S-111408-KW-013	SB-2 1-2'*
K28LJ	A8K190148-014	S-111408-KW-014	SB-2 2-3'*
K28LK	A8K190148-015	S-111408-KW-015	SB-1 1-2'*
K28LL	A8K190148-016	S-111408-KW-016	SB-1 2-4'*
K28LM	A8K190148-017	S-111408-KW-017	SB-3 1-1.5'*
K28LR	A8K190148-018	S-111408-KW-018	SB-3 2-2.5'*
K28LT	A8K190148-019	S-111408-KW-019	SB-17 2-2.5'*
K28LW	A8K190148-020	S-111408-KW-020	SB-17 3-3.5'*
K28L0	A8K190148-021	S-111408-KW-021	SB-19 1.5-2.5'*
K28L2	A8K190148-022	S-111408-KW-022	SB-19 2.5-3.5'*
K28L3	A8K190148-023	S-111408-KW-023	SB-11 1-1.5'*
K28L7	A8K190148-024	S-111408-KW-024	SB-11 2-2.5'*
K28L8	A8K190148-025	S-111408-KW-025	SB-11 3-3.5'*
K28MA	A8K190148-026	S-111408-KW-026	SB-23 2-2.5'*
K28MC	A8K190148-027	S-111408-KW-027	SB-23 3-3.5'*
K28MD	A8K190148-028	S-111408-KW-030	SB-22 0-0.5'*
K28ME	A8K190148-029	S-111408-KW-031	SB-22 1-1.5'*
K28MG	A8K190148-030	R-111408-KW-032	Rinsate*
K28MM	A8K190148-031	S-111408-KW-033	SB-21 2-2.5'*
K28MN	A8K190148-032	S-111408-KW-034	SB-21 2-2.5' (dup)*
K28MP	A8K190148-033	S-111408-KW-035	SB-21 3-3.5'*
K28MQ	A8K190148-034	S-111408-KW-038	SB-20 0-0.5'*
K28MW	A8K190148-035	S-111408-KW-039	SB-20 1-1.5'*
K28MX	A8K190148-036	S-111408-KW-040	SB-14 0-0.5'*
K28M0	A8K190148-037	S-111408-KW-041	SB-14 2-2.5'*
K28M1	A8K190148-038	S-111408-KW-042	SB-14 3-3.5'*
K28M4	A8K190148-039	S-111408-KW-043	SB-13 0-0.5'*
K28M5	A8K190148-040	S-111408-KW-044	SB-13 2-2.5'*

TESTAMERICA LABORATORIES, INC.

Amy L. McCormick
Project Manager

CASE NARRATIVE

A8K190148

The following report contains the analytical results for twenty-two solid samples and one water sample submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the Elgin-Jefferson Yard Site, project number 54633. The samples were received November 15, 2008, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Grant Anderson on November 26, 2008, and December 03, 2008. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

Any reference within this document to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.)

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Amy L. McCormick, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT." The total number of pages in this report is 161.

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperatures of the coolers upon sample receipt were 2.9 and 3.1°C.

POLYCHLORINATED BIPHENYLS-8082

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for batch(es) 8325418 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch(es) 8325153. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

Samples contained degraded and /or possible mixtures of Aroclors. The best pattern match was used in identification and quantitation for sample(s) S-111408-KW-030, S-111408-KW-033, and S-111408-KW-034.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The matrix spike/matrix spike duplicate(s) for S-111408-KW-001 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

The matrix spike/matrix spike duplicate(s) for batch(es) 8325024 and 8337022 had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

GENERAL CHEMISTRY

The MSD for batch(es) 8329438 for Total Solids also supports the sample(s) in batch(es) 8333219.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However. a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

EXECUTIVE SUMMARY - Detection Highlights

A8K190148

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-111408-KW-001 11/14/08 08:00 001				
Aroclor 1254	160	35	ug/kg	SW846 8082
Lead	6.3	0.32	mg/kg	SW846 6010B
Cadmium	1.1	0.54	mg/kg	SW846 6010B
Percent Solids	93.2	10.0	%	MCAWW 160.3 MOD
S-111408-KW-003 11/14/08 08:15 003				
Lead	4.0	0.32	mg/kg	SW846 6010B
Cadmium	0.077 B	0.53	mg/kg	SW846 6010B
Percent Solids	94.8	10.0	%	MCAWW 160.3 MOD
S-111408-KW-005 11/14/08 08:30 005				
Lead	5.2	0.32	mg/kg	SW846 6010B
Cadmium	0.095 B	0.53	mg/kg	SW846 6010B
Percent Solids	94.5	10.0	%	MCAWW 160.3 MOD
S-111408-KW-007 11/14/08 08:45 007				
Lead	4.3	0.32	mg/kg	SW846 6010B
Cadmium	0.075 B	0.54	mg/kg	SW846 6010B
Percent Solids	93.3	10.0	%	MCAWW 160.3 MOD
S-111408-KW-009 11/14/08 08:50 009				
Lead	3.6	0.32	mg/kg	SW846 6010B
Cadmium	0.049 B	0.54	mg/kg	SW846 6010B
Percent Solids	92.5	10.0	%	MCAWW 160.3 MOD
S-111408-KW-011 11/14/08 09:05 011				
Lead	5.4	0.32	mg/kg	SW846 6010B
Cadmium	0.062 B	0.53	mg/kg	SW846 6010B
Percent Solids	94.2	10.0	%	MCAWW 160.3 MOD
S-111408-KW-013 11/14/08 09:45 013				
Lead	14.9	0.34	mg/kg	SW846 6010B
Cadmium	0.087 B	0.57	mg/kg	SW846 6010B
Percent Solids	87.1	10.0	%	MCAWW 160.3 MOD

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EXECUTIVE SUMMARY - Detection Highlights

A8K190148

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-111408-KW-015 11/14/08 10:10 015				
Aroclor 1254	5500	750	ug/kg	SW846 8082
Lead	22.8	0.34	mg/kg	SW846 6010B
Cadmium	0.43 B	0.57	mg/kg	SW846 6010B
Percent Solids	88.0	10.0	%	MCAWW 160.3 MOD
S-111408-KW-017 11/14/08 10:30 017				
Lead	40.9	0.33	mg/kg	SW846 6010B
Cadmium	0.54 B	0.56	mg/kg	SW846 6010B
Percent Solids	89.8	10.0	%	MCAWW 160.3 MOD
S-111408-KW-019 11/14/08 10:50 019				
Aroclor 1242	59	36	ug/kg	SW846 8082
Aroclor 1254	38	36	ug/kg	SW846 8082
Lead - TCLP	3.5	0.50	mg/L	SW846 6010B
Lead	255	0.32	mg/kg	SW846 6010B
Cadmium	1.1	0.54	mg/kg	SW846 6010B
Percent Solids	92.9	10.0	%	MCAWW 160.3 MOD
S-111408-KW-021 11/14/08 11:05 021				
Aroclor 1242	28 J	37	ug/kg	SW846 8082
Lead	114	0.34	mg/kg	SW846 6010B
Cadmium	0.29 B	0.56	mg/kg	SW846 6010B
Percent Solids	89.2	10.0	%	MCAWW 160.3 MOD
S-111408-KW-023 11/14/08 11:35 023				
Aroclor 1242	3200	770	ug/kg	SW846 8082
Aroclor 1254	2900	770	ug/kg	SW846 8082
Cadmium - TCLP	0.18	0.10	mg/L	SW846 6010B
Lead - TCLP	6.1	0.50	mg/L	SW846 6010B
Lead	970	3.5	mg/kg	SW846 6010B
Cadmium	14.6	0.59	mg/kg	SW846 6010B
Percent Solids	85.2	10.0	%	MCAWW 160.3 MOD
S-111408-KW-024 11/14/08 11:35 024				
Aroclor 1242	76	38	ug/kg	SW846 8082
Aroclor 1254	170	38	ug/kg	SW846 8082
Lead	170	0.34	mg/kg	SW846 6010B
Cadmium	3.2	0.57	mg/kg	SW846 6010B

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EXECUTIVE SUMMARY - Detection Highlights

A8K190148

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-111408-KW-024 11/14/08 11:35 024				
Percent Solids	87.5	10.0	%	MCAWW 160.3 MOD
S-111408-KW-026 11/14/08 12:05 026				
Lead	4.2	0.32	mg/kg	SW846 6010B
Cadmium	0.042 B	0.53	mg/kg	SW846 6010B
Percent Solids	94.6	10.0	%	MCAWW 160.3 MOD
S-111408-KW-030 11/14/08 12:25 028				
Aroclor 1248	250	35	ug/kg	SW846 8082
Aroclor 1260	62	35	ug/kg	SW846 8082
Lead	7.1	0.32	mg/kg	SW846 6010B
Cadmium	0.11 B	0.53	mg/kg	SW846 6010B
Percent Solids	95.2	10.0	%	MCAWW 160.3 MOD
R-111408-KW-032 11/14/08 12:40 030				
Cadmium	1.2 B	5.0	ug/L	SW846 6010B
S-111408-KW-033 11/14/08 13:20 031				
Aroclor 1248	3000	380	ug/kg	SW846 8082
Aroclor 1260	510	380	ug/kg	SW846 8082
Lead	42.8	0.34	mg/kg	SW846 6010B
Cadmium	0.61	0.57	mg/kg	SW846 6010B
Percent Solids	87.7	10.0	%	MCAWW 160.3 MOD
S-111408-KW-034 11/14/08 13:20 032				
Aroclor 1242	2400	700	ug/kg	SW846 8082
Aroclor 1254	8100	700	ug/kg	SW846 8082
Lead	43.9	0.32	mg/kg	SW846 6010B
Cadmium	0.54	0.53	mg/kg	SW846 6010B
Percent Solids	93.7	10.0	%	MCAWW 160.3 MOD
S-111408-KW-038 11/14/08 13:50 034				
Lead	5.2	0.32	mg/kg	SW846 6010B
Cadmium	0.10 B	0.53	mg/kg	SW846 6010B
Percent Solids	94.9	10.0	%	MCAWW 160.3 MOD

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EXECUTIVE SUMMARY - Detection Highlights

A8K190148

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-111408-KW-040 11/14/08 14:20 036				
Lead	3.1	0.32	mg/kg	SW846 6010B
Cadmium	0.071 B	0.54	mg/kg	SW846 6010B
Percent Solids	93.0	10.0	%	MCAWW 160.3 MOD
S-111408-KW-041 11/14/08 14:20 037				
Lead	4.7	0.32	mg/kg	SW846 6010B
Cadmium	0.065 B	0.53	mg/kg	SW846 6010B
Percent Solids	94.7	10.0	%	MCAWW 160.3 MOD
S-111408-KW-043 11/14/08 15:05 039				
Aroclor 1242	1300	380	ug/kg	SW846 8082
Aroclor 1254	2200	380	ug/kg	SW846 8082
Lead - TCLP	0.59	0.50	mg/L	SW846 6010B
Lead	382	1.7	mg/kg	SW846 6010B
Cadmium	3.2	2.9	mg/kg	SW846 6010B
Percent Solids	86.8	10.0	%	MCAWW 160.3 MOD
S-111408-KW-044 11/14/08 15:05 040				
Aroclor 1242	300	190	ug/kg	SW846 8082
Aroclor 1254	600	190	ug/kg	SW846 8082
Lead	103	0.35	mg/kg	SW846 6010B
Cadmium	1.4	0.59	mg/kg	SW846 6010B
Percent Solids	85.1	10.0	%	MCAWW 160.3 MOD

ANALYTICAL METHODS SUMMARY

A8K190148

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
PCBs by SW-846 8082	SW846 8082
Total Residue as Percent Solids	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

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

SAMPLE SUMMARY

A8K190148

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
K28H0	001	S-111408-KW-001	11/14/08	08:00
K28KM	003	S-111408-KW-003	11/14/08	08:15
K28KR	005	S-111408-KW-005	11/14/08	08:30
K28K1	007	S-111408-KW-007	11/14/08	08:45
K28K5	009	S-111408-KW-009	11/14/08	08:50
K28K9	011	S-111408-KW-011	11/14/08	09:05
K28LG	013	S-111408-KW-013	11/14/08	09:45
K28LK	015	S-111408-KW-015	11/14/08	10:10
K28LM	017	S-111408-KW-017	11/14/08	10:30
K28LT	019	S-111408-KW-019	11/14/08	10:50
K28L0	021	S-111408-KW-021	11/14/08	11:05
K28L3	023	S-111408-KW-023	11/14/08	11:35
K28L7	024	S-111408-KW-024	11/14/08	11:35
K28MA	026	S-111408-KW-026	11/14/08	12:05
K28MD	028	S-111408-KW-030	11/14/08	12:25
K28MG	030	R-111408-KW-032	11/14/08	12:40
K28MM	031	S-111408-KW-033	11/14/08	13:20
K28MN	032	S-111408-KW-034	11/14/08	13:20
K28MQ	034	S-111408-KW-038	11/14/08	13:50
K28MX	036	S-111408-KW-040	11/14/08	14:20
K28M0	037	S-111408-KW-041	11/14/08	14:20
K28M4	039	S-111408-KW-043	11/14/08	15:05
K28M5	040	S-111408-KW-044	11/14/08	15:05

NOTE(S):

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

Conestoga-Rovers & Associates, Inc.

SB-11 1-1.5'*

Client Sample ID: S-111408-KW-023 *

GC Semivolatiles

Lot-Sample #...: A8K190148-023 **Work Order #...:** K28L31AA **Matrix.....:** SO
Date Sampled...: 11/14/08 11:35 **Date Received..:** 11/15/08
Prep Date.....: 11/19/08 **Analysis Date..:** 11/21/08
Prep Batch #...: 8324415
Dilution Factor: 20
% Moisture.....: 15 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	770	ug/kg
Aroclor 1221	ND	770	ug/kg
Aroclor 1232	ND	770	ug/kg
Aroclor 1242	**3200**	**770**	**ug/kg**
Aroclor 1248	ND	770	ug/kg
Aroclor 1254	**2900**	**770**	**ug/kg**
Aroclor 1260	ND	770	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	113 DIL	(10 - 196)
Decachlorobiphenyl	148 DIL	(10 - 199)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-111408-KW-023

TOTAL Metals

Lot-Sample #...: A8K190148-023 Matrix.....: SO
Date Sampled...: 11/14/08 11:35 Date Received..: 11/15/08
% Moisture.....: 15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8325022						
Cadmium	14.6	0.59	mg/kg	SW846 6010B	11/20-11/23/08	K28L31AC
		Dilution Factor: 1				
Lead	970	3.5	mg/kg	SW846 6010B	11/20-11/24/08	K28L31AD
		Dilution Factor: 10				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-111408-KW-023

TCLP Metals

Lot-Sample #...: A8K190148-023 **Matrix.....:** SO
Date Sampled...: 11/14/08 11:35 **Date Received..:** 11/15/08
Leach Date.....: 11/20/08 **Leach Batch #..:** P832504

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 8326021						
Cadmium	**0.18**	**0.10**	**mg/L**	**SW846 6010B**	**11/21-11/23/08**	**K28L31**
		Dilution Factor: 1				
Lead	**6.1**	**0.50**	**mg/L**	**SW846 6010B**	**11/21-11/23/08**	**K28L31**
		Dilution Factor: 1				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-111408-KW-023

General Chemistry

Lot-Sample #...: A8K190148-023 **Work Order #...:** K28L3 **Matrix.....:** SO
Date Sampled...: 11/14/08 11:35 **Date Received..:** 11/15/08
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	85.2	10.0	%	MCAWW 160.3 MOD	11/24-11/25/08	8329438

Dilution Factor: 1

Conestoga-Rovers & Associates, Inc.

SB-21 2-2.5'*

Client Sample ID: S-111408-KW-033 *

GC Semivolatiles

Lot-Sample #...: A8K190148-031 **Work Order #...:** K28MM1AA **Matrix.....:** SO
Date Sampled...: 11/14/08 13:20 **Date Received..:** 11/15/08
Prep Date.....: 11/20/08 **Analysis Date..:** 11/24/08
Prep Batch #...: 8325418
Dilution Factor: 10
% Moisture.....: 12 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	380	ug/kg
Aroclor 1221	ND	380	ug/kg
Aroclor 1232	ND	380	ug/kg
Aroclor 1242	ND	380	ug/kg
Aroclor 1248	**3000**	**380**	**ug/kg**
Aroclor 1254	ND	380	ug/kg
Aroclor 1260	**510**	**380**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	85 DIL	(10 - 196)
Decachlorobiphenyl	124 DIL	(10 - 199)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-111408-KW-033

TOTAL Metals

Lot-Sample #...: A8K190148-031 Matrix.....: SO
Date Sampled...: 11/14/08 13:20 Date Received..: 11/15/08
% Moisture.....: 12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8325022						
Cadmium	0.61	0.57	mg/kg	SW846 6010B	11/20-11/22/08	K28MM1AC
		Dilution Factor: 1				
Lead	42.8	0.34	mg/kg	SW846 6010B	11/20-11/22/08	K28MM1AD
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-111408-KW-033

TCLP Metals

Lot-Sample #...: A8K190148-031 **Matrix.....:** SO
Date Sampled...: 11/14/08 13:20 **Date Received..:** 11/15/08
Leach Date.....: 11/20/08 **Leach Batch #..:** P832505

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 8326022						
Cadmium	ND	0.10	mg/L	SW846 6010B	11/21-11/22/08	K28MM1
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010B	11/21-11/22/08	K28MM1
		Dilution Factor: 1				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-111408-KW-033

General Chemistry

Lot-Sample #...: A8K190148-031 **Work Order #...:** K28MM **Matrix.....:** SO
Date Sampled...: 11/14/08 13:20 **Date Received..:** 11/15/08
% Moisture.....: 12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**87.7**	**10.0**	**%**	**MCAWW 160.3 MOD**	**11/24-11/25/08**	**8329438**

Dilution Factor: 1

Conestoga-Rovers & Associates, Inc.

SB-21 2-2.5' (dup)*

Client Sample ID: S-111408-KW-034 *

GC Semivolatiles

Lot-Sample #...: A8K190148-032 **Work Order #...:** K28MN1AA **Matrix.....:** SO
Date Sampled...: 11/14/08 13:20 **Date Received..:** 11/15/08
Prep Date.....: 11/20/08 **Analysis Date..:** 11/24/08
Prep Batch #...: 8325418
Dilution Factor: 20
% Moisture.....: 6.3 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	700	ug/kg
Aroclor 1221	ND	700	ug/kg
Aroclor 1232	ND	700	ug/kg
Aroclor 1242	**2400**	**700**	**ug/kg**
Aroclor 1248	ND	700	ug/kg
Aroclor 1254	**8100**	**700**	**ug/kg**
Aroclor 1260	ND	700	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	96 DIL	(10 - 196)
Decachlorobiphenyl	186 DIL	(10 - 199)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-111408-KW-034

TOTAL Metals

Lot-Sample #...: A8K190148-032 Matrix.....: SO
Date Sampled...: 11/14/08 13:20 Date Received..: 11/15/08
% Moisture.....: 6.3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8325022						
Cadmium	0.54	0.53	mg/kg	SW846 6010B	11/20-11/22/08	K28MN1AC
		Dilution Factor: 1				
Lead	43.9	0.32	mg/kg	SW846 6010B	11/20-11/22/08	K28MN1AD
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-111408-KW-034

TCLP Metals

Lot-Sample #...: A8K190148-032 **Matrix.....:** SO
Date Sampled...: 11/14/08 13:20 **Date Received..:** 11/15/08
Leach Date.....: 11/20/08 **Leach Batch #..:** P832505

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 8326022						
Cadmium	ND	0.10	mg/L	SW846 6010B	11/21-11/22/08	K28MN1
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010B	11/21-11/22/08	K28MN1
		Dilution Factor: 1				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-111408-KW-034

General Chemistry

Lot-Sample #...: A8K190148-032 **Work Order #...:** K28MN **Matrix.....:** SO
Date Sampled...: 11/14/08 13:20 **Date Received..:** 11/15/08
% Moisture.....: 6.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	93.7	10.0	%	MCAWW 160.3 MOD	11/24-11/25/08	8329438

Dilution Factor: 1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

Grant Anderson
Conestoga-Rovers & Assoc., Inc.
PROJECT NO. 54633
ELGIN JEFFERSON YARD

SAMPLE SUMMARY

WO #	LABORATORY ID	SAMPLE IDENTIFICATION	
K28D7	A8K190136-001	S-111408-KW-013	SB-2 1-2'*
K28EG	A8K190136-002	S-111408-KW-014	SB-2 2-3'*
K28EL	A8K190136-003	S-111408-KW-021	SB-19 1.5-2.5'*
K28EP	A8K190136-004	S-111408-KW-022	SB-19 2.5-3.5'*
K28EQ	A8K190136-005	S-111408-KW-027	SB-23 3-3.5'*
K28ER	A8K190136-006	S-111408-KW-028	SB-23 4-4.5'*
K28EV	A8K190136-007	R-111408-KW-032	Rinsate*
K28EX	A8K190136-008	S-111408-KW-035	SB-21 3-3.5'*
K28E0	A8K190136-009	S-111408-KW-036	SB-21 3-3.5' (dup)*
K28E2	A8K190136-010	S-111408-KW-037	SB-21 4-4.5'*
K28E3	A8K190136-011	S-111408-KW-038	SB-20 0-0.5'*
K28E4	A8K190136-012	S-111408-KW-039	SB-20 1-1.5'*
K28E5	A8K190136-013	S-111408-KW-040	SB-14 0-0.5'*
K28E7	A8K190136-014	S-111408-KW-041	SB-14 2-2.5'*
K28FA	A8K190136-015	S-111408-KW-023	SB-11 1-1.5'*
K28FC	A8K190136-016	S-111408-KW-024	SB-11 2-2.5'*
K28FD	A8K190136-017	S-111408-KW-025	SB-11 3-3.5'*
K28FE	A8K190136-018	S-111408-KW-030	SB-22 0-0.5'*
K28FF	A8K190136-019	S-111408-KW-031	SB-22 1-1.5'*
			*

TESTAMERICA LABORATORIES, INC.

Amy L. McCormick
Project Manager

December 22, 2008

CASE NARRATIVE

A8K190136

The following report contains the analytical results for ten solid samples and one water sample submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the Elgin Jefferson Yard Site, project number 54633. The samples were received November 15, 2008, according to documented sample acceptance procedures.

The Dioxins/Furans analysis was performed at the TestAmerica West Sacramento laboratory. Refer to TestAmerica West Sacramento narrative included in their data package for additional information.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Grant Anderson on December 15, 2008. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

Any reference within this document to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.)

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Amy L. McCormick, at 330-497-9396.

CASE NARRATIVE (continued)

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT." The total number of pages in this report is 88.

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperatures of the coolers upon sample receipt were 2.9 and 3.1°C.

See TestAmerica's Cooler Receipt Form for additional information.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

EXECUTIVE SUMMARY - Detection Highlights

A8K190136

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-111408-KW-013 11/14/08 09:45 001				
Percent Solids	87.7	10.0	%	MCAWW 160.3 MOD
S-111408-KW-021 11/14/08 11:05 003				
Percent Solids	86.9	10.0	%	MCAWW 160.3 MOD
S-111408-KW-027 11/14/08 12:05 005				
Percent Solids	94.6	10.0	%	MCAWW 160.3 MOD
S-111408-KW-035 11/14/08 13:20 008				
Percent Solids	84.8	10.0	%	MCAWW 160.3 MOD
S-111408-KW-036 11/14/08 13:20 009				
Percent Solids	85.4	10.0	%	MCAWW 160.3 MOD
S-111408-KW-038 11/14/08 13:50 011				
Percent Solids	91.7	10.0	%	MCAWW 160.3 MOD
S-111408-KW-040 11/14/08 14:20 013				
Percent Solids	92.4	10.0	%	MCAWW 160.3 MOD
S-111408-KW-023 11/14/08 11:35 015				
1,2,3,4,6,7,8-HpCDD	0.98 J	1.5	ng/g	SW846 8280A
Total HpCDD	1.9	1.5	ng/g	SW846 8280A
OCDD	5.4	3.1	ng/g	SW846 8280A
2,3,7,8-TCDF	0.77	0.62	ng/g	SW846 8280A
Total TCDF	0.77	0.62	ng/g	SW846 8280A
1,2,3,4,6,7,8-HpCDF	1.4 J	1.5	ng/g	SW846 8280A
Total HpCDF	1.4	1.5	ng/g	SW846 8280A
Percent Solids	81.3	10.0	%	MCAWW 160.3 MOD
S-111408-KW-024 11/14/08 11:35 016				
Percent Solids	87.2	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A8K190136

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-111408-KW-030 11/14/08 12:25 018				
Percent Solids	92.9	10.0	%	MCAWW 160.3 MOD

ANALYTICAL METHODS SUMMARY

A8K190136

PARAMETER	ANALYTICAL METHOD
Dioxins/Furans, HRGC/LRMS (8280A)	SW846 8280A
Total Residue as Percent Solids	MCAWW 160.3 MOD

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

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

SAMPLE SUMMARY

A8K190136

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAM TI
K28D7	001	S-111408-KW-013	11/14/08	09:
K28EL	003	S-111408-KW-021	11/14/08	11
K28EQ	005	S-111408-KW-027	11/14/08	12
K28EV	007	R-111408-KW-032	11/14/08	12:
K28EX	008	S-111408-KW-035	11/14/08	13·
K28E0	009	S-111408-KW-036	11/14/08	13
K28E3	011	S-111408-KW-038	11/14/08	13:
K28E5	013	S-111408-KW-040	11/14/08	14:
K28FA	015	S-111408-KW-023	11/14/08	11
K28FC	016	S-111408-KW-024	11/14/08	11
K28FE	018	S-111408-KW-030	11/14/08	12:

NOTE(S):

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

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-111408-KW-023

Trace Level Organic Compounds

SB-11 1-1.5'*
*
*
*

Lot-Sample #...: A8K190136-015 Work Order #...: K28FA1AA Matrix.....: SO
Date Sampled...: 11/14/08 11:35 Date Received..: 11/15/08
Prep Date.....: 12/04/08 Analysis Date..: 12/10/08
Prep Batch #...: 8339229
Dilution Factor: 1
% Moisture.....: 19

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.022	ng/g	SW846 8280A
Total TCDD	ND	0.32	ng/g	SW846 8280A
1,2,3,7,8-PeCDD	ND	0.031	ng/g	SW846 8280A
Total PeCDD	ND	0.14	ng/g	SW846 8280A
1,2,3,4,7,8-HxCDD	ND	0.035	ng/g	SW846 8280A
1,2,3,6,7,8-HxCDD	ND	0.092	ng/g	SW846 8280A
1,2,3,7,8,9-HxCDD	ND	0.11	ng/g	SW846 8280A
Total HxCDD	ND	0.35	ng/g	SW846 8280A
1,2,3,4,6,7,8-HpCDD	**0.98 J**	**1.5**	**ng/g**	**SW846 8280A**
Total HpCDD	**1.9**	**1.5**	**ng/g**	**SW846 8280A**
OCDD	**5.4**	**3.1**	**ng/g**	**SW846 8280A**
2,3,7,8-TCDF	**0.77**	**0.62**	**ng/g**	**SW846 8280A**
Total TCDF	**0.77**	**0.62**	**ng/g**	**SW846 8280A**
1,2,3,7,8-PeCDF	ND	0.18	ng/g	SW846 8280A
2,3,4,7,8-PeCDF	ND	0.19	ng/g	SW846 8280A
Total PeCDF	ND	0.46	ng/g	SW846 8280A
1,2,3,4,7,8-HxCDF	ND	0.71	ng/g	SW846 8280A
1,2,3,6,7,8-HxCDF	ND	0.20	ng/g	SW846 8280A
2,3,4,6,7,8-HxCDF	ND	0.32	ng/g	SW846 8280A
1,2,3,7,8,9-HxCDF	ND	0.027	ng/g	SW846 8280A
Total HxCDF	ND	0.71	ng/g	SW846 8280A
1,2,3,4,6,7,8-HpCDF	**1.4 J**	**1.5**	**ng/g**	**SW846 8280A**
1,2,3,4,7,8,9-HpCDF	ND	0.19	ng/g	SW846 8280A
Total HpCDF	**1.4**	**1.5**	**ng/g**	**SW846 8280A**
OCDF	ND	1.3	ng/g	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	111	(25 - 150)
13C-2,3,7,8-TCDF	95	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	91	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	91	(25 - 150)
13C-OCDD	93	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	91	(25 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than the reporting limit.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-111408-KW-023

General Chemistry

Lot-Sample #...: A8K190136-015 **Work Order #...:** K28FA **Matrix.....:** SO
Date Sampled...: 11/14/08 11:35 **Date Received..:** 11/15/08
% Moisture.....: 19

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**81.3**	**10.0**	**%**	**MCAWW 160.3 MOD**	**12/09-12/10/08**	**834433°**

Dilution Factor: 1

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: LISA
Ticket: 739631 [Reprint]
27 October 2009 8:25 am
27 October 2009 8:38 am
Vehicle: RA67

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365067

KANE CTY/IL

Gross Weight	76,180.00 lb	
Stored Tare Weight	30,900.00 lb	
Net Weight	45,280.00 lb	22.64 TN

Quantity	Unit	Description		Rate	Total
22.64	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: LISA
Ticket: 739634 [Reprint]
27 October 2009 8:28 am
27 October 2009 8:41 am
Vehicle: RA964

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365068

KANE CTY/IL

Gross Weight	75,560.00	lb	
Stored Tare Weight	30,300.00	lb	
Net Weight	45,260.00	lb	22.63 TN

Quantity	Unit	Description		Rate	Total
22.63	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: SHERYL
Ticket: 739643 [Reprint]
27 October 2009 8:58 am
27 October 2009 8:58 am
Vehicle: BRE966

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365069

KANE CTY/IL

Gross Weight	71,140.00 lb	
Stored Tare Weight	29,040.00 lb	
Net Weight	42,100.00 lb	21.05 TN

Quantity	Unit	Description		Rate	Total
21.05	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: SHERYL
Ticket: 739644 [Reprint]
27 October 2009 9:01 am
27 October 2009 9:01 am
Vehicle: MER968

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365070

KANE CTY/IL

Gross Weight	71,500.00	lb	
Stored Tare Weight	30,140.00	lb	
Net Weight	41,360.00	lb	20.68 TN

Quantity	Unit	Description		Rate	Total
20.68	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: SHERYL
Ticket: 739652 [Reprint]
27 October 2009 9:05 am
27 October 2009 9:20 am
Vehicle: DOT975

000816
EO INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365072

KANE CTY/IL

Gross Weight	63,820.00 lb	
Stored Tare Weight	29,840.00 lb	
Net Weight	33,980.00 lb	16.99 TN

Quantity	Unit	Description		Rate	Total
16.99	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: SHERYL
Ticket: 739653 [Reprint]
27 October 2009 9:07 am
27 October 2009 9:25 am
Vehicle: DAH381

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365071

KANE CTY/IL

Gross Weight	77,320.00	lb	
Stored Tare Weight	30,320.00	lb	
Net Weight	47,000.00	lb	23.50 TN

Quantity	Unit	Description		Rate	Total
23.50	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: SHERYL
Ticket: 739659 [Reprint]
27 October 2009 9:36 am
27 October 2009 9:36 am
Vehicle: PHAT346

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365073

KANE CTY/IL

Gross Weight	65,480.00 lb	
Stored Tare Weight	27,580.00 lb	
Net Weight	37,900.00 lb	18.95 TN

Quantity	Unit	Description		Rate	Total
18 95	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: SHERYL
Ticket: 739669 [Reprint]
27 October 2009 9:30 am
27 October 2009 9:48 am
Vehicle: GRE24

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365074

KANE CTY/IL

Gross Weight	64,620.00	lb	
Stored Tare Weight	26,140.00	lb	
Net Weight	38,480.00	lb	19.24 TN

Quantity	Unit	Description		Rate	Total
19.24	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: SHERYL
Ticket: 739732 [Reprint]
27 October 2009 11:21 am
27 October 2009 11:21 am
Vehicle: RA67

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365067

KANE CTY/IL

Gross Weight	77,060.00	lb	
Stored Tare Weight	30,900.00	lb	
Net Weight	46,160.00	lb	23.08 TN

Quantity	Unit	Description		Rate	Total
23.08	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: SHERYL
Ticket: 739736 [Reprint]
27 October 2009 11:32 am
27 October 2009 11:32 am
Vehicle: RA964

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365068

KANE CTY/IL

Gross Weight	79,360.00 lb	
Stored Tare Weight	30,300.00 lb	
Net Weight	49,060.00 lb	24.53 TN

Quantity	Unit	Description		Rate	Total
24.53	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: SHERYL
Ticket: 739755 [Reprint]
27 October 2009 12:09 am
27 October 2009 12:09 am
Vehicle: BRE966

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365069

KANE CTY/IL

Gross Weight	75,920.00	lb	
Stored Tare Weight	29,040.00	lb	
Net Weight	46,880.00	lb	23.44 TN

Quantity	Unit	Description		Rate	Total
23.44	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: SHERYL
Ticket: 739764 [Reprint]
27 October 2009 12:31 am
27 October 2009 12:31 am
Vehicle: MER968

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365070

KANE CTY/IL

Gross Weight	74,620.00 lb	
Stored Tare Weight	30,140.00 lb	
Net Weight	44,480.00 lb	22.24 TN

Quantity	Unit	Description		Rate	Total
22.24	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: SHERYL
Ticket: 739770 [Reprint]
27 October 2009 12:43 am
27 October 2009 12:43 am
Vehicle: DAH381

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365071

KANE CTY/IL

Gross Weight	73,160.00	lb	
Stored Tare Weight	30,320.00	lb	
Net Weight	42,840.00	lb	21.42 TN

Quantity	Unit	Description		Rate	Total
21.42	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: SHERYL
Ticket: 739773 [Reprint]
27 October 2009 12:47 am
27 October 2009 12:47 am
Vehicle: GRE24

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365074

KANE CTY/IL

Gross Weight	69,300.00 lb	
Stored Tare Weight	26,140.00 lb	
Net Weight	43,160.00 lb	21.58 TN

Quantity	Unit	Description		Rate	Total
21.58	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: SHERYL
Ticket: 739780 [Reprint]
27 October 2009 1:02 pm
27 October 2009 1:02 pm
Vehicle: PHAT346

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365073

KANE CTY/IL

Gross Weight	74,980.00	lb	
Stored Tare Weight	27,580.00	lb	
Net Weight	47,400.00	lb	23.70 TN

Quantity	Unit	Description		Rate	Total
23.70	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: SHERYL
Ticket: 739786 [Reprint]
27 October 2009 1:08 pm
27 October 2009 1:08 pm
Vehicle: DOT975

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365072

KANE CTY/IL

Gross Weight	84,960.00	lb	
Stored Tare Weight	29,840.00	lb	
Net Weight	55,120.00	lb	27.56 TN

Quantity	Unit	Description		Rate	Total
27.56	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: SHERYL
Ticket: 739821 [Reprint]
27 October 2009 1:46 pm
27 October 2009 2:04 pm
Vehicle: RA340

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365076

KANE CTY/IL

Gross Weight	83,600.00 lb	
Tare Weight	32,600.00 lb	
Net Weight	51,000.00 lb	25.50 TN

Quantity	Unit	Description		Rate	Total
25.50	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: SHERYL
Ticket: 739840 [Reprint]
27 October 2009 2:37 pm
27 October 2009 2:37 pm
Vehicle: RA67

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365067

KANE CTY/IL

Gross Weight	80,400.00 lb	
Stored Tare Weight	30,900.00 lb	
Net Weight	49,500.00 lb	24.75 TN

Quantity	Unit	Description		Rate	Total
24.75	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: SHERYL
Ticket: 739841 [Reprint]
27 October 2009 2:38 pm
27 October 2009 2:38 pm
Vehicle: RA964

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365068

KANE CTY/IL

Gross Weight	76,440.00	lb	
Stored Tare Weight	30,300.00	lb	
Net Weight	46,140.00	lb	23.07 TN

Quantity	Unit	Description		Rate	Total
23.07	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: SHERYL
Ticket: 739853 [Reprint]
27 October 2009 3:08 pm
27 October 2009 3:08 pm
Vehicle: BRE966

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365069

KANE CTY/IL

Gross Weight	70,000.00	lb	
Stored Tare Weight	29,040.00	lb	
Net Weight	40,960.00	lb	20.48 TN

Quantity	Unit	Description		Rate	Total
20.48	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: SHERYL
Ticket: 739857 [Reprint]
27 October 2009 3:19 pm
27 October 2009 3:19 pm
Vehicle: GRE24

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365074

KANE CTY/IL

Gross Weight	72,580.00	lb	
Stored Tare Weight	26,140.00	lb	
Net Weight	46,440.00	lb	23.22 TN

Quantity	Unit	Description		Rate	Total
23.22	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: CINDY
Ticket: 741059 [Reprint]
2 November 2009 8:07 am
2 November 2009 8:18 am
Vehicle: RA967

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365077

KANE CTY/IL

Gross Weight	73,840.00	lb	
Stored Tare Weight	30,960.00	lb	
Net Weight	42,880.00	lb	21.44 TN

Quantity	Unit	Description		Rate	Total
21.44	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: CINDY
Ticket: 741060 [Reprint]
2 November 2009 8:21 am
2 November 2009 8:21 am
Vehicle: GRE24

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365078

KANE CTY/IL

Gross Weight	79,940.00	lb	
Stored Tare Weight	26,140.00	lb	
Net Weight	53,800.00	lb	26.90 TN

Quantity	Unit	Description		Rate	Total
26.90	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: CINDY
Ticket: 741125 [Reprint]
2 November 2009 10:31 am
2 November 2009 10:31 am
Vehicle: RA967

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365077

KANE CTY/IL

Gross Weight	72,780.00	lb	
Stored Tare Weight	30,960.00	lb	
Net Weight	41,820.00	lb	20.91 TN

Quantity	Unit	Description		Rate	Total
20.91	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: CINDY
Ticket: 741167 [Reprint]
2 November 2009 11:35 am
2 November 2009 11:35 am
Vehicle: GRE24

000816
FQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365078

KANE CTY/IL

Gross Weight	62,640.00	lb	
Stored Tare Weight	26,140.00	lb	
Net Weight	36,500.00	lb	18.25 TN

Quantity	Unit	Description		Rate	Total
18.25	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: MAHAGONY
Ticket: 741222 [Reprint]
2 November 2009 1:04 pm
2 November 2009 1:04 pm
Vehicle: RA967

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365077

KANE CTY/IL

Gross Weight	72,080.00	lb	
Stored Tare Weight	30,960.00	lb	
Net Weight	41,120.00	lb	20.56 TN

Quantity	Unit	Description		Rate	Total
20.56	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: MAHAGONY
Ticket: 741273 [Reprint]
2 November 2009 2:28 pm
2 November 2009 2:28 pm
Vehicle: GRE24

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00742

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365078

KANE CTY/IL

Gross Weight	77,580.00 lb	
Stored Tare Weight	26,140.00 lb	
Net Weight	51,440.00 lb	25.72 TN

Quantity	Unit	Description		Rate	Total
25.72	TN	X4	EXT-C-Soil/Adcm-External		

Net Amount:

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: LISA
Ticket: 739682 [Reprint]
27 October 2009 9:53 am
27 October 2009 10:15 am
Vehicle: RA340

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: OHL00743

000000 0000 0.00
Inbound - DISPOSAL CHARGE

Reference: 365075

KANE CTY/IL

Gross Weight	63,580.00 lb	
Tare Weight	32,800.00 lb	
Net Weight	30,780.00 lb	15.39 TN

Quantity	Unit	Description		Rate	Total
15.39	TN	X9	Ext-Tax Exempt Special Waste Ext		

Concrete

Net Amount:

APPENDIX K

ANALYTICAL RESULTS AND MANIFEST FOR CONCRETE WASH WATER/DECON WATER

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Grant Anderson
Conestoga-Rovers & Associates, Inc.
PROJECT NO. 54633
Elgin Jefferson Yard

SAMPLE SUMMARY

WO #	LABORATORY ID	SAMPLE IDENTIFICATION
LNX0F	A9K050604-001	DRUMMED WASH WATER

TESTAMERICA LABORATORIES, INC.

Denise D Heckler

Approved for release.
Denise D. Heckler
Project Manager
12/1/2009 3:26 PM

Denise D. Heckler
Project Manager
denise.heckler@testamericainc.com

December 01, 2009

TestAmerica Laboratories, Inc.
TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720
Tel (330)497-9396 Fax (330)497-0772 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

CASE NARRATIVE

A9K050604

The following report contains the analytical results for one water sample submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the Elgin Jefferson Yard Site, project number 54633. The sample was received November 05, 2009, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The sample presented in this report was analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Grant Anderson on November 30, 2009. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 4.2°C.

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for batch(es) 9320462 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

Sample(s) DRUMMED WASH WATER had elevated reporting limits due to foaming.

GC/MS SEMIVOLATILES

The matrix spike/matrix spike duplicate(s) for batch(es) 9310022 had RPD's outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

The original LCS associated with sample DRUMMED WASH WATER had an acid surrogate recovery below acceptance criteria . Upon re-extraction past the holding time, all QC met acceptance criteria, with the exception of pentachlorophenol. Pentachlorophenol exceeded criteria on the high side, since the sample was non-detect, the LCS was accepted. Both sets of data have been reported.

Sample DRUMMED WASH WATER had elevated reporting limits due to matrix interferences.

CASE NARRATIVE (continued)

PESTICIDES-8081

The reporting limits are elevated due to matrix interference interferences that routine clean-up techniques could not remove for sample DRUMMED WASH WATER.

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch 9310338. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

Batch 9310338 had RPD's outside QC criteria in the LCS/LCSD, but recoveries were within QC criteria; therefore, no corrective action was necessary.

POLYCHLORINATED BIPHENYLS-8082

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch 9310339. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

HERBICIDES-8151

The opening CCV failed high. Samples DRUMMED WASH WATER in batch 9310031 were non-detect(or J-flag values) and no further corrective action was necessary.

The closing CCV failed high. Samples DRUMMED WASH WATER in batch 9310031 were non-detect(or J-flag values) and no further corrective action was necessary.

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch 9310031. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

Matrix spike recovery and relative percent difference (RPD) data were not calculated for some analytes for DRUMMED WASH WATER due to the sample concentration reading greater than four times the spike amount. See the Matrix Spike Report for the affected analytes which will be flagged with "NC, MSB".

CASE NARRATIVE (continued)

GENERAL CHEMISTRY

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

EXECUTIVE SUMMARY - Detection Highlights

A9K050604

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
DRUMMED WASH WATER 11/04/09 08:00 001				
Aroclor 1254	3.2	1.0	ug/L	SW846 8082
Mercury	5.8	0.20	ug/L	SW846 7470A
Arsenic	4.5 B	300	ug/L	SW846 6010B
Barium	138 B	200	ug/L	SW846 6010B
Cadmium	7.0	5.0	ug/L	SW846 6010B
Chromium	11.9	10.0	ug/L	SW846 6010B
Lead	183	100	ug/L	SW846 6010B
Methyl ethyl ketone	31 J,B	50	ug/L	SW846 8260B
Chloroform	0.88 J	5.0	ug/L	SW846 8260B
Flashpoint	>180		deg F	SW846 1010
Total Organic Halogens	99.2	30.0	ug/L	SW846 9020B
pH (liquid)	7.8		No Units	SW846 9040B
Total Phenols	0.034 B	0.040	mg/L	MCAWW 420.1

ANALYTICAL METHODS SUMMARY

A9K050604

PARAMETER	ANALYTICAL METHOD
pH Aqueous	SW846 9040B
Chlorinated Herbicides by GC	SW846 8151A
Cyanide, Total	SW846 9012A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Organochlorine Pesticides	SW846 8081A
Pensky-Martens Method for Determining Ignitability	SW846 1010
Phenolics	MCAWW 420.1
PCBs by SW-846 8082	SW846 8082
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Sulfides, Total 9030B/9034	SW846 9030B/9034
Total Organic Halogens	SW846 9020B
Volatile Organics by GC/MS	SW846 8260B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

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

SAMPLE SUMMARY

A9K050604

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAM TI
LNX0F	001	DRUMMED WASH WATER	11/04/09	08:(

NOTE(S):

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

Conestoga-Rovers & Associates, Inc.

Client Sample ID: DRUMMED WASH WATER

GC/MS Volatiles

Lot-Sample #...: A9K050604-001 **Work Order #...:** LNX0F1AC **Matrix.....:** WG
Date Sampled...: 11/04/09 08:00 **Date Received..:** 11/05/09
Prep Date.....: 11/14/09 **Analysis Date..:** 11/14/09
Prep Batch #...: 9320462
Dilution Factor: 5 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	5.0	ug/L	0.65
Methyl ethyl ketone	**31 J,B**	**50**	**ug/L**	**2.8**
Carbon tetrachloride	ND	5.0	ug/L	0.65
Chlorobenzene	ND	5.0	ug/L	0.75
Chloroform	**0.88 J**	**5.0**	**ug/L**	**0.80**
1,2-Dichlorobenzene	ND	5.0	ug/L	0.65
1,4-Dichlorobenzene	ND	5.0	ug/L	0.65
1,1-Dichloroethene	ND	5.0	ug/L	0.95
Tetrachloroethene	ND	5.0	ug/L	1.4
Trichloroethene	ND	5.0	ug/L	0.85
Vinyl chloride	ND	5.0	ug/L	1.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	92	(76 - 110)
4-Bromofluorobenzene	97	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

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

Conestoga-Rovers & Associates, Inc.

Client Sample ID: DRUMMED WASH WATER

GC/MS Semivolatiles

Lot-Sample #...: A9K050604-001 **Work Order #...:** LNX0F1AD **Matrix.....:** WG
Date Sampled...: 11/04/09 08:00 **Date Received..:** 11/05/09
Prep Date.....: 11/06/09 **Analysis Date..:** 11/17/09
Prep Batch #...: 9310022
Dilution Factor: 10 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
m-Cresol & p-Cresol	ND	200	ug/L	0.75
Cresols (total)	ND	200	ug/L	3.6
2,4-Dinitrotoluene	ND	100	ug/L	2.7
Hexachlorobenzene	ND	100	ug/L	1.0
Hexachlorobutadiene	ND	100	ug/L	2.7
Hexachloroethane	ND	100	ug/L	8.0
o-Cresol	ND	100	ug/L	8.0
Nitrobenzene	ND	100	ug/L	0.40
Pentachlorophenol	ND	100	ug/L	24
Pyridine	ND	200	ug/L	3.5
2,4,5-Trichloro-phenol	ND	100	ug/L	3.0
2,4,6-Trichloro-phenol	ND	100	ug/L	8.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	95 DIL	(27 - 111)
2-Fluorobiphenyl	71 DIL	(28 - 110)
Terphenyl-d14	52 DIL	(37 - 119)
Phenol-d5	77 DIL	(10 - 110)
2-Fluorophenol	36 DIL	(10 - 110)
2,4,6-Tribromophenol	105 DIL	(22 - 120)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: DRUMMED WASH WATER

GC/MS Semivolatiles

Lot-Sample #...: A9K050604-001 **Work Order #...:** LNX0F2AD **Matrix.....:** WG
Date Sampled...: 11/04/09 08:00 **Date Received..:** 11/05/09
Prep Date.....: 11/17/09 **Analysis Date..:** 11/18/09
Prep Batch #...: 9321526
Dilution Factor: 10 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
m-Cresol & p-Cresol	ND	200	ug/L	0.75
Cresols (total)	ND	200	ug/L	3.6
2,4-Dinitrotoluene	ND	100	ug/L	2.7
Hexachlorobenzene	ND	100	ug/L	1.0
Hexachlorobutadiene	ND	100	ug/L	2.7
Hexachloroethane	ND	100	ug/L	8.0
o-Cresol	ND	100	ug/L	8.0
Nitrobenzene	ND	100	ug/L	0.40
Pentachlorophenol	ND	100	ug/L	24
Pyridine	ND	200	ug/L	3.5
2,4,5-Trichloro-phenol	ND	100	ug/L	3.0
2,4,6-Trichloro-phenol	ND	100	ug/L	8.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	91 DIL	(27 - 111)
2-Fluorobiphenyl	83 DIL	(28 - 110)
Terphenyl-d14	101 DIL	(37 - 119)
Phenol-d5	33 DIL	(10 - 110)
2-Fluorophenol	47 DIL	(10 - 110)
2,4,6-Tribromophenol	100 DIL	(22 - 120)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: DRUMMED WASH WATER

GC Semivolatiles

Lot-Sample #...: A9K050604-001 **Work Order #...:** LNX0F1AE **Matrix.....:** WG
Date Sampled...: 11/04/09 08:00 **Date Received..:** 11/05/09
Prep Date.....: 11/06/09 **Analysis Date..:** 11/18/09
Prep Batch #...: 9310338
Dilution Factor: 20 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Lindane	ND	1.0	ug/L	0.13
Chlordane (technical)	ND	10	ug/L	0.66
Endrin	ND	1.0	ug/L	0.22
Heptachlor	ND	1.0	ug/L	0.16
Heptachlor epoxide	ND	1.0	ug/L	0.14
Methoxychlor	ND	2.0	ug/L	0.64
Toxaphene	ND	40	ug/L	6.4

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	57 DIL	(25 - 142)
Decachlorobiphenyl	69 DIL	(10 - 139)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Elevated reporting limits. The reporting limits are elevated due to matrix interference.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: DRUMMED WASH WATER

GC Semivolatiles

Lot-Sample #...: A9K050604-001 **Work Order #...:** LNX0F1AA **Matrix.....:** WG
Date Sampled...: 11/04/09 08:00 **Date Received..:** 11/05/09
Prep Date.....: 11/06/09 **Analysis Date..:** 11/09/09
Prep Batch #...: 9310339
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.17
Aroclor 1221	ND	1.0	ug/L	0.13
Aroclor 1232	ND	1.0	ug/L	0.16
Aroclor 1242	ND	1.0	ug/L	0.22
Aroclor 1248	ND	1.0	ug/L	0.10
Aroclor 1254	**3.2**	**1.0**	**ug/L**	**0.16**
Aroclor 1260	ND	1.0	ug/L	0.17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	40	(27 - 130)
Decachlorobiphenyl	18	(10 - 127)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: DRUMMED WASH WATER

GC Semivolatiles

Lot-Sample #...: A9K050604-001 **Work Order #...:** LNX0F1AF **Matrix.....:** WG
Date Sampled...: 11/04/09 08:00 **Date Received..:** 11/05/09
Prep Date.....: 11/06/09 **Analysis Date..:** 11/09/09
Prep Batch #...: 9310031
Dilution Factor: 1 **Method.....:** SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	4.0	ug/L	1.5
2,4,5-TP (Silvex)	ND	1.0	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	79	(32 - 112)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: DRUMMED WASH WATER

TOTAL Metals

Lot-Sample #...: A9K050604-001 **Matrix.....:** WG
Date Sampled...: 11/04/09 08:00 **Date Received..:** 11/05/09

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9310013						
Silver	ND	10.0	ug/L	SW846 6010B	11/06-11/09/09	LNX0F1AH
		Dilution Factor: 1		MDL.....: 2.2		
Arsenic	**4.5 B**	**300**	**ug/L**	**SW846 6010B**	**11/06-11/09/09**	**LNX0F1AJ**
		Dilution Factor: 1		MDL.....: 3.2		
Barium	**138 B**	**200**	**ug/L**	**SW846 6010B**	**11/06-11/09/09**	**LNX0F1AK**
		Dilution Factor: 1		MDL.....: 0.67		
Cadmium	**7.0**	**5.0**	**ug/L**	**SW846 6010B**	**11/06-11/09/09**	**LNX0F1AL**
		Dilution Factor: 1		MDL.....: 0.66		
Chromium	**11.9**	**10.0**	**ug/L**	**SW846 6010B**	**11/06-11/09/09**	**LNX0F1AM**
		Dilution Factor: 1		MDL.....: 2.2		
Mercury	**5.8**	**0.20**	**ug/L**	**SW846 7470A**	**11/06/09**	**LNX0F1AG**
		Dilution Factor: 1		MDL.....: 0.12		
Lead	**183**	**100**	**ug/L**	**SW846 6010B**	**11/06-11/09/09**	**LNX0F1AN**
		Dilution Factor: 1		MDL.....: 1.9		
Selenium	ND	250	ug/L	SW846 6010B	11/06-11/09/09	LNX0F1AP
		Dilution Factor: 1		MDL.....: 4.1		

NOTE(S):

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: DRUMMED WASH WATER

General Chemistry

Lot-Sample #...: A9K050604-001 **Work Order #...:** LNX0F **Matrix.....:** WG
Date Sampled...: 11/04/09 08:00 **Date Received..:** 11/05/09

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
pH (liquid)	**7.8**		**No Units**	**SW846 9040B**	**11/06/09**	**9310526**
	Dilution Factor: 1			MDL.....:		
Acid-soluble sulfide	ND	3.0	mg/L	SW846 9030B/9034	11/10/09	9314530
	Dilution Factor: 1			MDL.....: 0.94		
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	11/09/09	931329
	Dilution Factor: 1			MDL.....: 0.0050		
Flashpoint	**>180**		**deg F**	**SW846 1010**	**11/16/09**	**932051**
	Dilution Factor: 1			MDL.....:		
Total Organic Halogens	**99.2**	**30.0**	**ug/L**	**SW846 9020B**	**11/11/09**	**931440**
	Dilution Factor: 1			MDL.....: 19.0		
Total Phenols	**0.034 B**	**0.040**	**mg/L**	**MCAWW 420.1**	**11/11/09**	**931515**
	Dilution Factor: 1			MDL.....: 0.006		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

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QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A9K050604 **Work Order #...:** LPKC71AA **Matrix.....:** WATER
MB Lot-Sample #: A9K160000-462

Prep Date.....: 11/14/09
Analysis Date..: 11/14/09 **Prep Batch #...:** 9320462
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	1.0	ug/L	SW846 8260B
Methyl ethyl ketone	**6.1 J**	**10**	**ug/L**	**SW846 8260B**
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	94	(76 - 110)
4-Bromofluorobenzene	96	(74 - 116)

NOTE(S):

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

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LN0MN1AA **Matrix.....:** WATER
MB Lot-Sample #: A9K060000-022

Prep Date.....: 11/06/09
Analysis Date..: 11/16/09 **Prep Batch #...:** 9310022
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	10	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
o-Cresol	ND	10	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C
Pentachlorophenol	ND	10	ug/L	SW846 8270C
Pyridine	ND	20	ug/L	SW846 8270C
2,4,5-Trichloro-phenol	ND	10	ug/L	SW846 8270C
2,4,6-Trichloro-phenol	ND	10	ug/L	SW846 8270C
Cresols (total)	ND	20	ug/L	SW846 8270C
m-Cresol & p-Cresol	ND	20	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	73	(27 - 111)
2-Fluorobiphenyl	56	(28 - 110)
Terphenyl-d14	81	(37 - 119)
Phenol-d5	57	(10 - 110)
2-Fluorophenol	23	(10 - 110)
2,4,6-Tribromophenol	69	(22 - 120)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LPMD21AA **Matrix.....:** WATER
MB Lot-Sample #: A9K170000-526

Prep Date.....: 11/17/09
Analysis Date..: 11/18/09 **Prep Batch #...:** 9321526
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	10	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
o-Cresol	ND	10	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C
Pentachlorophenol	ND	10	ug/L	SW846 8270C
Pyridine	ND	20	ug/L	SW846 8270C
2,4,5-Trichloro-phenol	ND	10	ug/L	SW846 8270C
2,4,6-Trichloro-phenol	ND	10	ug/L	SW846 8270C
Cresols (total)	ND	20	ug/L	SW846 8270C
m-Cresol & p-Cresol	ND	20	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	92	(27 - 111)
2-Fluorobiphenyl	78	(28 - 110)
Terphenyl-d14	98	(37 - 119)
Phenol-d5	62	(10 - 110)
2-Fluorophenol	78	(10 - 110)
2,4,6-Tribromophenol	89	(22 - 120)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LN1RH1AA **Matrix.....:** WATER
MB Lot-Sample #: A9K060000-338

Prep Date.....: 11/06/09
Analysis Date..: 11/17/09 **Prep Batch #...:** 9310338
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methoxychlor	ND	0.10	ug/L	SW846 8081A
Lindane	ND	0.050	ug/L	SW846 8081A
Chlordane (technical)	ND	0.50	ug/L	SW846 8081A
Endrin	ND	0.050	ug/L	SW846 8081A
Heptachlor	ND	0.050	ug/L	SW846 8081A
Heptachlor epoxide	ND	0.050	ug/L	SW846 8081A
Toxaphene	ND	2.0	ug/L	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	75	(25 - 142)
Decachlorobiphenyl	45	(10 - 139)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LN1RM1AA **Matrix.....:** WATER
MB Lot-Sample #: A9K060000-339

Prep Date.....: 11/06/09
Analysis Date..: 11/09/09 **Prep Batch #...:** 9310339
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	1.0	ug/L	SW846 8082
Aroclor 1221	ND	1.0	ug/L	SW846 8082
Aroclor 1232	ND	1.0	ug/L	SW846 8082
Aroclor 1242	ND	1.0	ug/L	SW846 8082
Aroclor 1248	ND	1.0	ug/L	SW846 8082
Aroclor 1254	ND	1.0	ug/L	SW846 8082
Aroclor 1260	ND	1.0	ug/L	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	75	(27 - 130)
Decachlorobiphenyl	50	(10 - 127)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LN0M11AA **Matrix.....:** WATER
MB Lot-Sample #: A9K060000-031

Prep Date.....: 11/06/09
Analysis Date..: 11/10/09 **Prep Batch #...:** 9310031
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-D	ND	4.0	ug/L	SW846 8151A
2,4,5-TP (Silvex)	ND	1.0	ug/L	SW846 8151A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	90	(32 - 112)

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A9K050604 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A9K060000-013 **Prep Batch #...:** 9310013						
Arsenic	ND	300	ug/L	SW846 6010B	11/06-11/09/09	LN0MA1
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	11/06-11/09/09	LN0MA1
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	11/06-11/09/09	LN0MA1
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	11/06-11/09/09	LN0MA1
		Dilution Factor: 1				
Lead	ND	100	ug/L	SW846 6010B	11/06-11/09/09	LN0MA1
		Dilution Factor: 1				
Mercury	ND	0.20	ug/L	SW846 7470A	11/06/09	LN0MA1A
		Dilution Factor: 1				
Selenium	ND	250	ug/L	SW846 6010B	11/06-11/09/09	LN0MA1A
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010B	11/06-11/09/09	LN0MA1A
		Dilution Factor: 1				

NOTE(S):

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A9K050604 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Acid-soluble sulfide		Work Order #: LN90R1AA		MB Lot-Sample #:	A9K100000-530	
	ND	3.0	mg/L	SW846 9030B/9034	11/10/09	9314530
		Dilution Factor: 1				
Total Cyanide		Work Order #: LN44N1AA		MB Lot-Sample #:	A9K090000-295	
	ND	0.010	mg/L	SW846 9012A	11/09/09	9313295
		Dilution Factor: 1				
Total Organic Halogens		Work Order #: LN6WR1AA		MB Lot-Sample #:	A9K100000-408	
	ND	30.0	ug/L	SW846 9020B	11/10/09	9314408
		Dilution Factor: 1				
Total Phenols		Work Order #: LN7911AA		MB Lot-Sample #:	A9K110000-151	
	ND	0.040	mg/L	MCAWW 420.1	11/11/09	9315151
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A9K050604 **Work Order #...:** LPKC71AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A9K160000-462 LPKC71AD-LCSD
Prep Date.....: 11/14/09 **Analysis Date..:** 11/14/09
Prep Batch #...: 9320462
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Vinyl chloride	70	(61 - 120)			SW846 8260B
	73	(61 - 120)	4.8	(0-30)	SW846 8260B
1,1-Dichloroethene	**99**	**(63 - 130)**			**SW846 8260B**
	102	**(63 - 130)**	**2.8**	**(0-20)**	**SW846 8260B**
Chloroform	103	(84 - 128)			SW846 8260B
	103	(84 - 128)	0.31	(0-30)	SW846 8260B
Methyl ethyl ketone	113	(28 - 237)			SW846 8260B
	109	(28 - 237)	3.9	(0-65)	SW846 8260B
Carbon tetrachloride	100	(75 - 149)			SW846 8260B
	101	(75 - 149)	1.5	(0-30)	SW846 8260B
Trichloroethene	**104**	**(75 - 122)**			**SW846 8260B**
	105	**(75 - 122)**	**1.0**	**(0-20)**	**SW846 8260B**
Benzene	**101**	**(80 - 116)**			**SW846 8260B**
	101	**(80 - 116)**	**0.32**	**(0-20)**	**SW846 8260B**
Tetrachloroethene	97	(88 - 113)			SW846 8260B
	99	(88 - 113)	1.7	(0-30)	SW846 8260B
Chlorobenzene	**98**	**(76 - 117)**			**SW846 8260B**
	101	**(76 - 117)**	**2.6**	**(0-20)**	**SW846 8260B**
1,4-Dichlorobenzene	99	(70 - 130)			SW846 8260B
	99	(70 - 130)	0.090	(0-30)	SW846 8260B
1,2-Dichlorobenzene	102	(70 - 130)			SW846 8260B
	101	(70 - 130)	1.2	(0-30)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(73 - 122)
	98	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
	95	(61 - 128)
Toluene-d8	94	(76 - 110)
	93	(76 - 110)
4-Bromofluorobenzene	101	(74 - 116)
	102	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A9K050604 **Work Order #...:** LPKC71AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A9K160000-462 LPKC71AD-LCSD
Prep Date.....: 11/14/09 **Analysis Date..:** 11/14/09
Prep Batch #...: 9320462
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Vinyl chloride	10	7.0	ug/L	70		SW846 8260B
	10	7.3	ug/L	73	4.8	SW846 8260B
1,1-Dichloroethene	**10**	**9.9**	**ug/L**	**99**		**SW846 8260B**
	10	**10**	**ug/L**	**102**	**2.8**	**SW846 8260B**
Chloroform	10	10	ug/L	103		SW846 8260B
	10	10	ug/L	103	0.31	SW846 8260B
Methyl ethyl ketone	10	11	ug/L	113		SW846 8260B
	10	11	ug/L	109	3.9	SW846 8260B
Carbon tetrachloride	10	10	ug/L	100		SW846 8260B
	10	10	ug/L	101	1.5	SW846 8260B
Trichloroethene	**10**	**10**	**ug/L**	**104**		**SW846 8260B**
	10	**11**	**ug/L**	**105**	**1.0**	**SW846 8260B**
Benzene	**10**	**10**	**ug/L**	**101**		**SW846 8260B**
	10	**10**	**ug/L**	**101**	**0.32**	**SW846 8260B**
Tetrachloroethene	10	9.7	ug/L	97		SW846 8260B
	10	9.9	ug/L	99	1.7	SW846 8260B
Chlorobenzene	**10**	**9.8**	**ug/L**	**98**		**SW846 8260B**
	10	**10**	**ug/L**	**101**	**2.6**	**SW846 8260B**
1,4-Dichlorobenzene	10	9.9	ug/L	99		SW846 8260B
	10	9.9	ug/L	99	0.090	SW846 8260B
1,2-Dichlorobenzene	10	10	ug/L	102		SW846 8260B
	10	10	ug/L	101	1.2	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(73 - 122)
	98	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
	95	(61 - 128)
Toluene-d8	94	(76 - 110)
	93	(76 - 110)
4-Bromofluorobenzene	101	(74 - 116)
	102	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LN0MN1AC **Matrix.....:** WATER
LCS Lot-Sample#: A9K060000-022
Prep Date.....: 11/06/09 **Analysis Date..:** 11/16/09
Prep Batch #...: 9310022
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2,4-Dinitrotoluene	**94**	**(52 - 123)**	**SW846 8270C**
Pentachlorophenol	**91**	**(26 - 110)**	**SW846 8270C**
2,4,5-Trichloro-phenol	70	(39 - 110)	SW846 8270C
2,4,6-Trichloro-phenol	65	(35 - 110)	SW846 8270C
o-Cresol	73	(30 - 110)	SW846 8270C
Hexachlorobenzene	78	(51 - 112)	SW846 8270C
Hexachlorobutadiene	31	(13 - 110)	SW846 8270C
Hexachloroethane	35	(12 - 110)	SW846 8270C
Nitrobenzene	85	(37 - 115)	SW846 8270C
Pyridine	78	(10 - 110)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	83	(27 - 111)
2-Fluorobiphenyl	67	(28 - 110)
Terphenyl-d14	89	(37 - 119)
Phenol-d5	30	(10 - 110)
2-Fluorophenol	4.0 *	(10 - 110)
2,4,6-Tribromophenol	81	(22 - 120)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LN0MN1AC **Matrix.....:** WATER
LCS Lot-Sample#: A9K060000-022
Prep Date.....: 11/06/09 **Analysis Date..:** 11/16/09
Prep Batch #...: 9310022
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2,4-Dinitrotoluene	**20**	**19**	**ug/L**	**94**	**SW846 8270C**
Pentachlorophenol	**20**	**18**	**ug/L**	**91**	**SW846 8270C**
2,4,5-Trichloro-phenol	20	14	ug/L	70	SW846 8270C
2,4,6-Trichloro-phenol	20	13	ug/L	65	SW846 8270C
o-Cresol	20	15	ug/L	73	SW846 8270C
Hexachlorobenzene	20	16	ug/L	78	SW846 8270C
Hexachlorobutadiene	20	6.1	ug/L	31	SW846 8270C
Hexachloroethane	20	6.9	ug/L	35	SW846 8270C
Nitrobenzene	20	17	ug/L	85	SW846 8270C
Pyridine	20	16	ug/L	78	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	83	(27 - 111)
2-Fluorobiphenyl	67	(28 - 110)
Terphenyl-d14	89	(37 - 119)
Phenol-d5	30	(10 - 110)
2-Fluorophenol	4.0 *	(10 - 110)
2,4,6-Tribromophenol	81	(22 - 120)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LPMD21AC **Matrix.....:** WATER
LCS Lot-Sample#: A9K170000-526
Prep Date.....: 11/17/09 **Analysis Date..:** 11/18/09
Prep Batch #...: 9321526
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2,4-Dinitrotoluene	**106**	**(52 - 123)**	**SW846 8270C**
Pentachlorophenol	**111 a**	**(26 - 110)**	**SW846 8270C**
2,4,5-Trichloro-phenol	96	(39 - 110)	SW846 8270C
2,4,6-Trichloro-phenol	97	(35 - 110)	SW846 8270C
o-Cresol	97	(30 - 110)	SW846 8270C
Hexachlorobenzene	91	(51 - 112)	SW846 8270C
Hexachlorobutadiene	83	(13 - 110)	SW846 8270C
Hexachloroethane	81	(12 - 110)	SW846 8270C
Nitrobenzene	105	(37 - 115)	SW846 8270C
Pyridine	77	(10 - 110)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	98	(27 - 111)
2-Fluorobiphenyl	86	(28 - 110)
Terphenyl-d14	101	(37 - 119)
Phenol-d5	65	(10 - 110)
2-Fluorophenol	80	(10 - 110)
2,4,6-Tribromophenol	98	(22 - 120)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LPMD21AC **Matrix.....:** WATER
LCS Lot-Sample#: A9K170000-526
Prep Date.....: 11/17/09 **Analysis Date..:** 11/18/09
Prep Batch #...: 9321526
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2,4-Dinitrotoluene	**20**	**21**	**ug/L**	**106**	**SW846 8270C**
Pentachlorophenol	**20**	**22 a**	**ug/L**	**111**	**SW846 8270C**
2,4,5-Trichloro-phenol	20	19	ug/L	96	SW846 8270C
2,4,6-Trichloro-phenol	20	19	ug/L	97	SW846 8270C
o-Cresol	20	19	ug/L	97	SW846 8270C
Hexachlorobenzene	20	18	ug/L	91	SW846 8270C
Hexachlorobutadiene	20	17	ug/L	83	SW846 8270C
Hexachloroethane	20	16	ug/L	81	SW846 8270C
Nitrobenzene	20	21	ug/L	105	SW846 8270C
Pyridine	20	15	ug/L	77	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	98	(27 - 111)
2-Fluorobiphenyl	86	(28 - 110)
Terphenyl-d14	101	(37 - 119)
Phenol-d5	65	(10 - 110)
2-Fluorophenol	80	(10 - 110)
2,4,6-Tribromophenol	98	(22 - 120)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LN1RH1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A9K060000-338 LN1RH1AD-LCSD
Prep Date.....: 11/06/09 **Analysis Date..:** 11/18/09
Prep Batch #...: 9310338
Dilution Factor: 2

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Lindane	**102**	**(51 - 145)**			**SW846 8081A**
	72 p	**(51 - 145)**	**34**	**(0-30)**	**SW846 8081A**
Heptachlor	**101**	**(47 - 141)**			**SW846 8081A**
	66 p	**(47 - 141)**	**41**	**(0-30)**	**SW846 8081A**
Heptachlor epoxide	99	(49 - 140)			SW846 8081A
	70 p	(49 - 140)	34	(0-30)	SW846 8081A
Endrin	**102**	**(49 - 145)**			**SW846 8081A**
	73 p	**(49 - 145)**	**33**	**(0-30)**	**SW846 8081A**
Methoxychlor	99	(46 - 147)			SW846 8081A
	71 p	(46 - 147)	32	(0-30)	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	84	(25 - 142)
	54	(25 - 142)
Decachlorobiphenyl	55	(10 - 139)
	36	(10 - 139)

NOTE(S):

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

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LN1RH1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A9K060000-338 LN1RH1AD-LCSD
Prep Date.....: 11/06/09 **Analysis Date..:** 11/18/09
Prep Batch #...: 9310338
Dilution Factor: 2

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Lindane	**1.0**	**1.0**	**ug/L**	**102**		**SW846 8081A**
	1.0	**0.72 p**	**ug/L**	**72**	**34**	**SW846 8081A**
Heptachlor	**1.0**	**1.0**	**ug/L**	**101**		**SW846 8081A**
	1.0	**0.66 p**	**ug/L**	**66**	**41**	**SW846 8081A**
Heptachlor epoxide	1.0	0.99	ug/L	99		SW846 8081A
	1.0	0.70 p	ug/L	70	34	SW846 8081A
Endrin	**1.0**	**1.0**	**ug/L**	**102**		**SW846 8081A**
	1.0	**0.73 p**	**ug/L**	**73**	**33**	**SW846 8081A**
Methoxychlor	1.0	0.99	ug/L	99		SW846 8081A
	1.0	0.71 p	ug/L	71	32	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	84	(25 - 142)
	54	(25 - 142)
Decachlorobiphenyl	55	(10 - 139)
	36	(10 - 139)

NOTE(S):

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

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LN1RM1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A9K060000-339 LN1RM1AD-LCSD
Prep Date.....: 11/06/09 **Analysis Date..:** 11/09/09
Prep Batch #...: 9310339
Dilution Factor: 2

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**76**	**(44 - 119)**			**SW846 8082**
	101	**(44 - 119)**	**27**	**(0-30)**	**SW846 8082**
Aroclor 1260	**75**	**(41 - 118)**			**SW846 8082**
	87	**(41 - 118)**	**15**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	81	(27 - 130)
	99	(27 - 130)
Decachlorobiphenyl	54	(10 - 127)
	52	(10 - 127)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LN1RM1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A9K060000-339 LN1RM1AD-LCSD
Prep Date.....: 11/06/09 **Analysis Date..:** 11/09/09
Prep Batch #...: 9310339
Dilution Factor: 2

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aroclor 1016	**10**	**7.6**	**ug/L**	**76**		**SW846 8082**
	10	**10**	**ug/L**	**101**	**27**	**SW846 8082**
Aroclor 1260	**10**	**7.5**	**ug/L**	**75**		**SW846 8082**
	10	**8.7**	**ug/L**	**87**	**15**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	81	(27 - 130)
	99	(27 - 130)
Decachlorobiphenyl	54	(10 - 127)
	52	(10 - 127)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LN0M11AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A9K060000-031 LN0M11AD-LCSD
Prep Date.....: 11/06/09 **Analysis Date..:** 11/10/09
Prep Batch #...: 9310031
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-D	**88**	**(35 - 110)**			**SW846 8151A**
	88	**(35 - 110)**	**0.86**	**(0-30)**	**SW846 8151A**
2,4,5-TP (Silvex)	**87**	**(41 - 110)**			**SW846 8151A**
	88	**(41 - 110)**	**0.65**	**(0-30)**	**SW846 8151A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic **acid**	88	(32 - 112)
	90	(32 - 112)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LN0M11AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A9K060000-031 LN0M11AD-LCSD
Prep Date.....: 11/06/09 **Analysis Date..:** 11/10/09
Prep Batch #...: 9310031
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
2,4-D	**40**	**35**	**ug/L**	**88**		**SW846 8151A**
	40	**35**	**ug/L**	**88**	**0.86**	**SW846 8151A**
2,4,5-TP (Silvex)	**10**	**8.7**	**ug/L**	**87**		**SW846 8151A**
	10	**8.8**	**ug/L**	**88**	**0.65**	**SW846 8151A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	88	(32 - 112)
	90	(32 - 112)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A9K050604 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9K060000-013 **Prep Batch #...:** 9310013					
Mercury	104	(81 - 123)	SW846 7470A	11/06/09	LN0MA1AK
		Dilution Factor: 1			
Silver	105	(80 - 120)	SW846 6010B	11/06-11/09/09	LN0MA1AL
		Dilution Factor: 1			
Arsenic	93	(80 - 120)	SW846 6010B	11/06-11/09/09	LN0MA1AM
		Dilution Factor: 1			
Barium	92	(80 - 120)	SW846 6010B	11/06-11/09/09	LN0MA1AN
		Dilution Factor: 1			
Cadmium	99	(80 - 120)	SW846 6010B	11/06-11/09/09	LN0MA1AP
		Dilution Factor: 1			
Chromium	96	(80 - 120)	SW846 6010B	11/06-11/09/09	LN0MA1AQ
		Dilution Factor: 1			
Lead	95	(80 - 120)	SW846 6010B	11/06-11/09/09	LN0MA1AR
		Dilution Factor: 1			
Selenium	97	(80 - 120)	SW846 6010B	11/06-11/09/09	LN0MA1AT
		Dilution Factor: 1			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A9K050604 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A9K060000-013 **Prep Batch #...:** 9310013							
Mercury	5.0	5.2	ug/L	104	SW846 7470A	11/06/09	LN0MA1AK
			Dilution Factor: 1				
Silver	50.0	52.5	ug/L	105	SW846 6010B	11/06-11/09/09	LN0MA1AL
			Dilution Factor: 1				
Arsenic	2000	1860	ug/L	93	SW846 6010B	11/06-11/09/09	LN0MA1AM
			Dilution Factor: 1				
Barium	2000	1830	ug/L	92	SW846 6010B	11/06-11/09/09	LN0MA1AN
			Dilution Factor: 1				
Cadmium	50.0	49.7	ug/L	99	SW846 6010B	11/06-11/09/09	LN0MA1AP
			Dilution Factor: 1				
Chromium	200	193	ug/L	96	SW846 6010B	11/06-11/09/09	LN0MA1AQ
			Dilution Factor: 1				
Lead	500	477	ug/L	95	SW846 6010B	11/06-11/09/09	LN0MA1AR
			Dilution Factor: 1				
Selenium	2000	1940	ug/L	97	SW846 6010B	11/06-11/09/09	LN0MA1AT
			Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A9K050604 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)		Work Order #: LN3HW1AA		LCS Lot-Sample#: A9K060000-526	
	100	(97 - 103)	SW846 9040B	11/06/09	9310526
		Dilution Factor: 1			
Acid-soluble sulfide		Work Order #: LN90R1AC		LCS Lot-Sample#: A9K100000-530	
	98	(70 - 130)	SW846 9030B/9034	11/10/09	9314530
		Dilution Factor: 1			
Total Cyanide		Work Order #: LN44N1AC		LCS Lot-Sample#: A9K090000-295	
	100	(69 - 118)	SW846 9012A	11/09/09	9313295
		Dilution Factor: 1			
Total Organic Halogens		Work Order #: LN6WR1AC		LCS Lot-Sample#: A9K100000-408	
	99	(67 - 115)	SW846 9020B	11/10/09	9314408
		Dilution Factor: 1			
Total Phenols		Work Order #: LN7911AC		LCS Lot-Sample#: A9K110000-151	
	91	(54 - 137)	MCAWW 420.1	11/11/09	9315151
		Dilution Factor: 1			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A9K050604 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)			Work Order #:	LN3HW1AA	LCS Lot-Sample#:	A9K060000-526	
	8.5	8.5	No Units	100	SW846 9040B	11/06/09	9310526
			Dilution Factor: 1				
Acid-soluble sulfide			Work Order #:	LN90R1AC	LCS Lot-Sample#:	A9K100000-530	
	8.3	8.2	mg/L	98	SW846 9030B/9034	11/10/09	9314530
			Dilution Factor: 1				
Total Cyanide			Work Order #:	LN44N1AC	LCS Lot-Sample#:	A9K090000-295	
	0.60	0.60	mg/L	100	SW846 9012A	11/09/09	9313295
			Dilution Factor: 1				
Total Organic Halogens			Work Order #:	LN6WR1AC	LCS Lot-Sample#:	A9K100000-408	
	1000	992	ug/L	99	SW846 9020B	11/10/09	9314408
			Dilution Factor: 1				
Total Phenols			Work Order #:	LN7911AC	LCS Lot-Sample#:	A9K110000-151	
	0.58	0.53	mg/L	91	MCAWW 420.1	11/11/09	9315151
			Dilution Factor: 1				

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A9K050604 **Work Order #...:** LN15D1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A9K060525-011 LN15D1AD-MSD
Date Sampled...: 11/02/09 16:25 **Date Received..:** 11/06/09
Prep Date.....: 11/14/09 **Analysis Date..:** 11/14/09
Prep Batch #...: 9320462
Dilution Factor: 5

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**99**	**(62 - 130)**			**SW846 8260B**
	99	**(62 - 130)**	**0.08**	**(0-20)**	**SW846 8260B**
Vinyl chloride	27 a	(88 - 126)			SW846 8260B
	40 a	(88 - 126)	4.3	(0-30)	SW846 8260B
Chloroform	102	(83 - 141)			SW846 8260B
	103	(83 - 141)	1.5	(0-30)	SW846 8260B
Methyl ethyl ketone	91	(71 - 123)			SW846 8260B
	93	(71 - 123)	1.7	(0-30)	SW846 8260B
Carbon tetrachloride	93	(63 - 176)			SW846 8260B
	97	(63 - 176)	3.6	(0-30)	SW846 8260B
Trichloroethene	**99**	**(62 - 130)**			**SW846 8260B**
	106	**(62 - 130)**	**6.3**	**(0-20)**	**SW846 8260B**
Benzene	**99**	**(78 - 118)**			**SW846 8260B**
	102	**(78 - 118)**	**2.2**	**(0-20)**	**SW846 8260B**
Tetrachloroethene	94	(85 - 121)			SW846 8260B
	97	(85 - 121)	2.3	(0-30)	SW846 8260B
Chlorobenzene	**98**	**(76 - 117)**			**SW846 8260B**
	99	**(76 - 117)**	**1.4**	**(0-20)**	**SW846 8260B**
1,4-Dichlorobenzene	94	(70 - 130)			SW846 8260B
	96	(70 - 130)	1.6	(0-30)	SW846 8260B
1,2-Dichlorobenzene	98	(70 - 130)			SW846 8260B
	99	(70 - 130)	0.96	(0-30)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(73 - 122)
	98	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
	91	(61 - 128)
Toluene-d8	93	(76 - 110)
	95	(76 - 110)
4-Bromofluorobenzene	103	(74 - 116)
	103	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A9K050604 **Work Order #...:** LN15D1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A9K060525-011 LN15D1AD-MSD
Date Sampled...: 11/02/09 16:25 **Date Received..:** 11/06/09
Prep Date.....: 11/14/09 **Analysis Date..:** 11/14/09
Prep Batch #...: 9320462
Dilution Factor: 5

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	**ND**	**50**	**50**	**ug/L**	**99**		**SW846 8260B**
	ND	**50**	**50**	**ug/L**	**99**	**0.08**	**SW846 8260B**
Vinyl chloride	140	50	150	ug/L	27 a		SW846 8260B
	140	50	160	ug/L	40 a	4.3	SW846 8260B
Chloroform	ND	50	51	ug/L	102		SW846 8260B
	ND	50	52	ug/L	103	1.5	SW846 8260B
Methyl ethyl ketone	24	50	69	ug/L	91		SW846 8260B
	24	50	71	ug/L	93	1.7	SW846 8260B
Carbon tetrachloride	ND	50	47	ug/L	93		SW846 8260B
	ND	50	48	ug/L	97	3.6	SW846 8260B
Trichloroethene	**ND**	**50**	**50**	**ug/L**	**99**		**SW846 8260B**
	ND	**50**	**53**	**ug/L**	**106**	**6.3**	**SW846 8260B**
Benzene	**16**	**50**	**66**	**ug/L**	**99**		**SW846 8260B**
	16	**50**	**67**	**ug/L**	**102**	**2.2**	**SW846 8260B**
Tetrachloroethene	ND	50	47	ug/L	94		SW846 8260B
	ND	50	48	ug/L	97	2.3	SW846 8260B
Chlorobenzene	**ND**	**50**	**49**	**ug/L**	**98**		**SW846 8260B**
	ND	**50**	**50**	**ug/L**	**99**	**1.4**	**SW846 8260B**
1,4-Dichlorobenzene	4.5	50	51	ug/L	94		SW846 8260B
	4.5	50	52	ug/L	96	1.6	SW846 8260B
1,2-Dichlorobenzene	ND	50	49	ug/L	98		SW846 8260B
	ND	50	49	ug/L	99	0.96	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(73 - 122)
	98	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
	91	(61 - 128)
Toluene-d8	93	(76 - 110)
	95	(76 - 110)
4-Bromofluorobenzene	103	(74 - 116)
	103	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LNX2Q1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A9K050617-003 LNX2Q1AD-MSD
Date Sampled...: 11/04/09 11:55 **Date Received..:** 11/05/09
Prep Date.....: 11/06/09 **Analysis Date..:** 11/19/09
Prep Batch #...: 9310022
Dilution Factor: 4

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-Dinitrotoluene	**89 DIL**	**(46 - 119)**			**SW846 8270C**
	88 DIL	**(46 - 119)**	**1.2**	**(0-30)**	**SW846 8270C**
Pentachlorophenol	**96 DIL**	**(23 - 110)**			**SW846 8270C**
	94 DIL	**(23 - 110)**	**2.2**	**(0-30)**	**SW846 8270C**
Hexachlorobenzene	64 DIL	(40 - 113)			SW846 8270C
	62 DIL	(40 - 113)	4.1	(0-30)	SW846 8270C
Hexachlorobutadiene	35 DIL	(14 - 110)			SW846 8270C
	24 DIL,p	(14 - 110)	37	(0-30)	SW846 8270C
Hexachloroethane	41 DIL	(10 - 110)			SW846 8270C
	27 DIL,p	(10 - 110)	40	(0-30)	SW846 8270C
o-Cresol	76 DIL	(26 - 110)			SW846 8270C
	76 DIL	(26 - 110)	0.33	(0-30)	SW846 8270C
Nitrobenzene	82 DIL	(26 - 118)			SW846 8270C
	77 DIL	(26 - 118)	5.8	(0-30)	SW846 8270C
2,4,5-Trichloro-phenol	76 DIL	(36 - 110)			SW846 8270C
	70 DIL	(36 - 110)	8.7	(0-30)	SW846 8270C
2,4,6-Trichloro-phenol	73 DIL	(34 - 110)			SW846 8270C
	71 DIL	(34 - 110)	2.1	(0-30)	SW846 8270C
Pyridine	65 DIL	(10 - 110)			SW846 8270C
	70 DIL	(10 - 110)	8.1	(0-30)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	78 DIL	(27 - 111)
	75 DIL	(27 - 111)
2-Fluorobiphenyl	58 DIL	(28 - 110)
	53 DIL	(28 - 110)
Terphenyl-d14	78 DIL	(37 - 119)
	78 DIL	(37 - 119)
Phenol-d5	67 DIL	(10 - 110)
	63 DIL	(10 - 110)
2-Fluorophenol	38 DIL	(10 - 110)
	33 DIL	(10 - 110)
2,4,6-Tribromophenol	74 DIL	(22 - 120)
	74 DIL	(22 - 120)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LNX2Q1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A9K050617-003 LNX2Q1AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS

NOTE(S):

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

Bold print denotes control parameters

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LNX2Q1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A9K050617-003 LNX2Q1AD-MSD
Date Sampled...: 11/04/09 11:55 **Date Received..:** 11/05/09
Prep Date.....: 11/06/09 **Analysis Date..:** 11/19/09
Prep Batch #...: 9310022
Dilution Factor: 4

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4-Dinitrotoluene	**ND**	**39**	**35**	**ug/L**	**89 DIL**		**SW846 8270C**
	ND	**39**	**35**	**ug/L**	**88 DIL**	**1.2**	**SW846 8270C**
Pentachlorophenol	**ND**	**39**	**38**	**ug/L**	**96 DIL**		**SW846 8270C**
	ND	**39**	**37**	**ug/L**	**94 DIL**	**2.2**	**SW846 8270C**
Hexachlorobenzene	ND	39	25	ug/L	64 DIL		SW846 8270C
	ND	39	24	ug/L	62 DIL	4.1	SW846 8270C
Hexachlorobutadiene	ND	39	14	ug/L	35 DIL		SW846 8270C
	ND	39	9.3	ug/L	24	37	SW846 8270C
	Qualifiers:		DIL,p				
Hexachloroethane	ND	39	16	ug/L	41 DIL		SW846 8270C
	ND	39	11	ug/L	27	40	SW846 8270C
	Qualifiers:		DIL,p				
o-Cresol	ND	39	30	ug/L	76 DIL		SW846 8270C
	ND	39	30	ug/L	76 DIL	0.33	SW846 8270C
Nitrobenzene	ND	39	32	ug/L	82 DIL		SW846 8270C
	ND	39	30	ug/L	77 DIL	5.8	SW846 8270C
2,4,5-Trichloro-phenol	ND	39	30	ug/L	76 DIL		SW846 8270C
	ND	39	27	ug/L	70 DIL	8.7	SW846 8270C
2,4,6-Trichloro-phenol	ND	39	29	ug/L	73 DIL		SW846 8270C
	ND	39	28	ug/L	71 DIL	2.1	SW846 8270C
Pyridine	ND	39	25	ug/L	65 DIL		SW846 8270C
	ND	39	27	ug/L	70 DIL	8.1	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	78 DIL	(27 - 111)
	75 DIL	(27 - 111)
2-Fluorobiphenyl	58 DIL	(28 - 110)
	53 DIL	(28 - 110)
Terphenyl-d14	78 DIL	(37 - 119)
	78 DIL	(37 - 119)
Phenol-d5	67 DIL	(10 - 110)
	63 DIL	(10 - 110)
2-Fluorophenol	38 DIL	(10 - 110)
	33 DIL	(10 - 110)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LNX2Q1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A9K050617-003 LNX2Q1AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	74 DIL	(22 - 120)
	74 DIL	(22 - 120)

NOTE(S):

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

Bold print denotes control parameters

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LNX2Q1AH-MS **Matrix.....:** WATER
MS Lot-Sample #: A9K050617-003 LNX2Q1AJ-MSD
Date Sampled...: 11/04/09 11:55 **Date Received..:** 11/05/09
Prep Date.....: 11/17/09 **Analysis Date..:** 11/19/09
Prep Batch #...: 9321525
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-Dinitrotoluene	**91**	**(46 - 119)**			**SW846 8270C**
	88	**(46 - 119)**	**4.4**	**(0-30)**	**SW846 8270C**
Pentachlorophenol	**90**	**(23 - 110)**			**SW846 8270C**
	79	**(23 - 110)**	**12**	**(0-30)**	**SW846 8270C**
Hexachlorobenzene	75	(40 - 113)			SW846 8270C
	70	(40 - 113)	6.7	(0-30)	SW846 8270C
Hexachlorobutadiene	68	(14 - 110)			SW846 8270C
	69	(14 - 110)	2.0	(0-30)	SW846 8270C
Hexachloroethane	70	(10 - 110)			SW846 8270C
	75	(10 - 110)	6.7	(0-30)	SW846 8270C
2-Methylphenol	80	(26 - 110)			SW846 8270C
	82	(26 - 110)	3.2	(0-30)	SW846 8270C
Nitrobenzene	94	(26 - 118)			SW846 8270C
	86	(26 - 118)	8.2	(0-30)	SW846 8270C
2,4,5-Trichloro-phenol	86	(36 - 110)			SW846 8270C
	83	(36 - 110)	3.1	(0-30)	SW846 8270C
2,4,6-Trichloro-phenol	87	(34 - 110)			SW846 8270C
	79	(34 - 110)	9.3	(0-30)	SW846 8270C
Pyridine	53	(10 - 110)			SW846 8270C
	51	(10 - 110)	3.9	(0-30)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	94	(27 - 111)
	86	(27 - 111)
2-Fluorobiphenyl	76	(28 - 110)
	72	(28 - 110)
Terphenyl-d14	93	(37 - 119)
	84	(37 - 119)
Phenol-d5	56	(10 - 110)
	58	(10 - 110)
2-Fluorophenol	72	(10 - 110)
	68	(10 - 110)
2,4,6-Tribromophenol	90	(22 - 120)
	85	(22 - 120)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LNX2Q1AH-MS **Matrix.....:** WATER
MS Lot-Sample #: A9K050617-003 LNX2Q1AJ-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LNX2Q1AH-MS **Matrix.....:** WATER
MS Lot-Sample #: A9K050617-003 LNX2Q1AJ-MSD
Date Sampled...: 11/04/09 11:55 **Date Received..:** 11/05/09
Prep Date.....: 11/17/09 **Analysis Date..:** 11/19/09
Prep Batch #...: 9321525
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4-Dinitrotoluene	**ND**	**38**	**35**	**ug/L**	**91**		**SW846 8270C**
	ND	**38**	**34**	**ug/L**	**88**	**4.4**	**SW846 8270C**
Pentachlorophenol	**ND**	**38**	**35**	**ug/L**	**90**		**SW846 8270C**
	ND	**38**	**30**	**ug/L**	**79**	**12**	**SW846 8270C**
Hexachlorobenzene	ND	38	29	ug/L	75		SW846 8270C
	ND	38	27	ug/L	70	6.7	SW846 8270C
Hexachlorobutadiene	ND	38	26	ug/L	68		SW846 8270C
	ND	38	27	ug/L	69	2.0	SW846 8270C
Hexachloroethane	ND	38	27	ug/L	70		SW846 8270C
	ND	38	29	ug/L	75	6.7	SW846 8270C
2-Methylphenol	ND	38	31	ug/L	80		SW846 8270C
	ND	38	32	ug/L	82	3.2	SW846 8270C
Nitrobenzene	ND	38	36	ug/L	94		SW846 8270C
	ND	38	33	ug/L	86	8.2	SW846 8270C
2,4,5-Trichloro-phenol	ND	38	33	ug/L	86		SW846 8270C
	ND	38	32	ug/L	83	3.1	SW846 8270C
2,4,6-Trichloro-phenol	ND	38	34	ug/L	87		SW846 8270C
	ND	38	31	ug/L	79	9.3	SW846 8270C
Pyridine	ND	38	20	ug/L	53		SW846 8270C
	ND	38	20	ug/L	51	3.9	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	94	(27 - 111)
	86	(27 - 111)
2-Fluorobiphenyl	76	(28 - 110)
	72	(28 - 110)
Terphenyl-d14	93	(37 - 119)
	84	(37 - 119)
Phenol-d5	56	(10 - 110)
	58	(10 - 110)
2-Fluorophenol	72	(10 - 110)
	68	(10 - 110)
2,4,6-Tribromophenol	90	(22 - 120)
	85	(22 - 120)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: A9K050604 **Work Order #...:** LNX2Q1AH-MS **Matrix.....:** WATER
MS Lot-Sample #: A9K050617-003 LNX2Q1AJ-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A9K050604 **Matrix.....:** WG
Date Sampled...: 11/04/09 08:00 **Date Received..:** 11/05/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A9K050604-001 **Prep Batch #...:** 9310013							
Arsenic	96	(75 - 125)			SW846 6010B	11/06-11/09/09	LNX0F1A1
	96	(75 - 125)	0.15	(0-20)	SW846 6010B	11/06-11/09/09	LNX0F1A2
		Dilution Factor: 1					
Barium	95	(75 - 125)			SW846 6010B	11/06-11/09/09	LNX0F1A3
	95	(75 - 125)	0.20	(0-20)	SW846 6010B	11/06-11/09/09	LNX0F1A4
		Dilution Factor: 1					
Cadmium	102	(75 - 125)			SW846 6010B	11/06-11/09/09	LNX0F1A5
	101	(75 - 125)	0.77	(0-20)	SW846 6010B	11/06-11/09/09	LNX0F1A6
		Dilution Factor: 1					
Chromium	99	(75 - 125)			SW846 6010B	11/06-11/09/09	LNX0F1A7
	99	(75 - 125)	0.48	(0-20)	SW846 6010B	11/06-11/09/09	LNX0F1A8
		Dilution Factor: 1					
Lead	99	(75 - 125)			SW846 6010B	11/06-11/09/09	LNX0F1A9
	99	(75 - 125)	0.49	(0-20)	SW846 6010B	11/06-11/09/09	LNX0F1CA
		Dilution Factor: 1					
Mercury	NC,MSB	(69 - 134)			SW846 7470A	11/06/09	LNX0F1AV
	NC,MSB	(69 - 134)		(0-20)	SW846 7470A	11/06/09	LNX0F1AW
		Dilution Factor: 1					
Selenium	99	(75 - 125)			SW846 6010B	11/06-11/09/09	LNX0F1CC
	99	(75 - 125)	0.17	(0-20)	SW846 6010B	11/06-11/09/09	LNX0F1CD
		Dilution Factor: 1					
Silver	111	(75 - 125)			SW846 6010B	11/06-11/09/09	LNX0F1AX
	112	(75 - 125)	0.65	(0-20)	SW846 6010B	11/06-11/09/09	LNX0F1A0
		Dilution Factor: 1					

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A9K050604 **Matrix.....:** WG
Date Sampled...: 11/04/09 08:00 **Date Received..:** 11/05/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A9K050604-001 **Prep Batch #...:** 9310013									
Arsenic									
	4.5	2000	1930	ug/L	96		SW846 6010B	11/06-11/09/09	LNX0F1A1
	4.5	2000	1920	ug/L	96	0.15	SW846 6010B	11/06-11/09/09	LNX0F1A2
			Dilution Factor: 1						
Barium									
	138	2000	2040	ug/L	95		SW846 6010B	11/06-11/09/09	LNX0F1A3
	138	2000	2040	ug/L	95	0.20	SW846 6010B	11/06-11/09/09	LNX0F1A4
			Dilution Factor: 1						
Cadmium									
	7.0	50.0	57.8	ug/L	102		SW846 6010B	11/06-11/09/09	LNX0F1A5
	7.0	50.0	57.4	ug/L	101	0.77	SW846 6010B	11/06-11/09/09	LNX0F1A6
			Dilution Factor: 1						
Chromium									
	11.9	200	210	ug/L	99		SW846 6010B	11/06-11/09/09	LNX0F1A7
	11.9	200	209	ug/L	99	0.48	SW846 6010B	11/06-11/09/09	LNX0F1A8
			Dilution Factor: 1						
Lead									
	183	500	680	ug/L	99		SW846 6010B	11/06-11/09/09	LNX0F1A9
	183	500	677	ug/L	99	0.49	SW846 6010B	11/06-11/09/09	LNX0F1CA
			Dilution Factor: 1						
Mercury									
	5.8	1.0	6.8	ug/L			SW846 7470A	11/06/09	LNX0F1AV
			Qualifiers: NC,MSB						
	5.8	1.0	7.3	ug/L			SW846 7470A	11/06/09	LNX0F1AW
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
Selenium									
	ND	2000	1980	ug/L	99		SW846 6010B	11/06-11/09/09	LNX0F1CC
	ND	2000	1990	ug/L	99	0.17	SW846 6010B	11/06-11/09/09	LNX0F1CD
			Dilution Factor: 1						
Silver									
	ND	50.0	55.4	ug/L	111		SW846 6010B	11/06-11/09/09	LNX0F1AX
	ND	50.0	55.8	ug/L	112	0.65	SW846 6010B	11/06-11/09/09	LNX0F1A0
			Dilution Factor: 1						

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A9K050604 **Matrix.....:** WATER
Date Sampled...: 11/09/09 13:00 **Date Received..:** 11/10/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Acid-soluble sulfide		WO#: LN2GH1AC-MS/LN2GH1AD-MSD				MS Lot-Sample #: A9K060572-005	
	49	(27 - 124)			SW846 9030B/9034	11/10/09	9314530
	58	(27 - 124)	14	(0-20)	SW846 9030B/9034	11/10/09	9314530
		Dilution Factor: 1					
Total Cyanide		WO#: LNWDM1AQ-MS/LNWDM1AR-MSD				MS Lot-Sample #: A9K050403-001	
	88	(42 - 140)			SW846 9012A	11/09/09	9313295
	82	(42 - 140)	7.2	(0-20)	SW846 9012A	11/09/09	9313295
		Dilution Factor: 1					
Total Organic Halogens		WO#: LN16L1AF-MS/LN16L1AG-MSD				MS Lot-Sample #: A9K060542-001	
	97	(59 - 126)			SW846 9020B	11/10/09	9314408
	97	(59 - 126)	0.04	(0-99)	SW846 9020B	11/10/09	9314408
		Dilution Factor: 1					
Total Phenols		WO#: LN6W41AC-MS/LN6W41AD-MSD				MS Lot-Sample #: A9K100514-001	
	102	(10 - 155)			MCAWW 420.1	11/11/09	9315151
	93	(10 - 155)	9.4	(0-41)	MCAWW 420.1	11/11/09	9315151
		Dilution Factor: 1					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A9K050604 **Matrix.....:** WATER
Date Sampled...: 11/09/09 13:00 **Date Received..:** 11/10/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Acid-soluble sulfide			WO#: LN2GH1AC-MS/LN2GH1AD-MSD				MS Lot-Sample #: A9K060572-005		
	1.3	8.3	5.3	mg/L	49		SW846 9030B/9	11/10/09	9314530
	1.3	8.3	6.1	mg/L	58	14	SW846 9030B/9	11/10/09	9314530
			Dilution Factor: 1						
Total Cyanide			WO#: LNWDM1AQ-MS/LNWDM1AR-MSD				MS Lot-Sample #: A9K050403-001		
	ND	0.040	0.036	mg/L	88		SW846 9012A	11/09/09	9313295
	ND	0.040	0.034	mg/L	82	7.2	SW846 9012A	11/09/09	9313295
			Dilution Factor: 1						
Total Organic Halogens			WO#: LN16L1AF-MS/LN16L1AG-MSD				MS Lot-Sample #: A9K060542-001		
	ND	1000	990	ug/L	97		SW846 9020B	11/10/09	9314408
	ND	1000	991	ug/L	97	0.04	SW846 9020B	11/10/09	9314408
			Dilution Factor: 1						
Total Phenols			WO#: LN6W41AC-MS/LN6W41AD-MSD				MS Lot-Sample #: A9K100514-001		
	ND	0.10	0.10	mg/L	102		MCAWW 420.1	11/11/09	9315151
	ND	0.10	0.093	mg/L	93	9.4	MCAWW 420.1	11/11/09	9315151
			Dilution Factor: 1						

NOTE(S):

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

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A9K050604 **Work Order #...:** LN12C-SMP LN12C-DUP **Matrix.....:** WATER

Date Sampled...: 11/03/09 14:20 **Date Received..:** 11/06/09

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATC
pH (liquid)						SD Lot-Sample #:	A9K060527-008	
	7.5	7.6	No Units	0.53	(0-20)	SW846 9040B	11/06/09	931052

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A9K050604 **Work Order #...:** LNXCN-SMP **Matrix.....:** WASTE
LNXCN-DUP

Date Sampled...: 11/04/09 10:00 **Date Received..:** 11/05/09

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Flashpoint						SD Lot-Sample #:	A9K050510-001	
	179	177	deg F	1.1	(0-20)	SW846 1010	11/16/09	9320510

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A9K050604 **Work Order #...:** LNXCX-SMP **Matrix.....:** WASTE
LNXCX-DUP

Date Sampled...: 11/04/09 10:30 **Date Received..:** 11/05/09

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Flashpoint						SD Lot-Sample #:	A9K050510-002	
	105	105	deg F	0.0	(0-20)	SW846 1010	11/16/09	932051

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A9K050604 **Work Order #...:** LNX0F-SMP LNX0F-DUP **Matrix.....:** WG

Date Sampled...: 11/04/09 08:00 **Date Received..:** 11/05/09

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Flashpoint						SD Lot-Sample #:	A9K050604-C01	
	>180	>180	deg F	0.0	(0-20)	SW846 1010	11/16/09	9320510

Dilution Factor: 1

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES
Grant Anderson
651-639-0913

SHIPPED TO (Laboratory Name): Test America

REFERENCE NUMBER: 054633

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: Peter Starlie

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS: VOCs - 8260	Tox Metals	Herbicides/Pest	PCB	SVOCs	RCRA Metals	Reactive CN	Reactive Sulfide	REMARKS
	11/4/09	0800	Drummed Wash Water	Aqueous	14	X	X	X	X	X	X	X	X	STANDARD TAT

TOTAL NUMBER OF CONTAINERS: 14

HEALTH/CHEMICAL HAZARDS:

RELINQUISHED BY: ① [signature]	DATE: 11-4-09 TIME: 1000	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: FED EX - Overnight. WAY BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Goldenrod —Sampler Copy

SAMPLE TEAM:

RECEIVED FOR LABORATORY BY: [signature]
DATE: 11/5/09 TIME: 9:30 am.

Nº CRA 22180

1001 (D) APR 28/97(NF) REV. 0 (F-15)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** A9K050604
North Canton Facility

Client CRA Project _____ By: [signature]
Cooler Received on 11/5/09 Opened on 11/5/09 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____
TestAmerica Cooler # 541-920 Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 1 Quantity Unsalvageable _____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☐ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☒ None ☐ Other _____
6. Cooler temperature upon receipt 4.2 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐ _____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☒ No ☐ NA ☐
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

_____

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot# 031909-HNO_3; Sulfuric Acid Lot# 082509-H_2SO_4; Sodium Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-$(CH_3COO)_2ZN/NaOH$.* What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials
Drummed	2-2-2-2-2>9>12	11/5/09	a

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant

Discrepancies Cont'd:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

VEOLIA
ENVIRONMENTAL SERVICES

Profile #:

Special Waste Profile Sheet

Designated Facility: **Orchard Hills Landfill** Sales Representative:

A. Generator

Name:	City of Elgin
Site Address:	20 Jefferson Ave
City, State, Zip:	Elgin, IL 60120
Contact.	William A. Cogley
Phone:	847 931-5659
Fax:	847 931-5665

B. Billing

Name:	EQ – The Environmental Quality Co.
Address:	36255 Michigan Ave
City, State, Zip:	Wayne, MI 48184
Contact:	Ron Evenson
Phone:	630 208-9160
Fax:	630 208-9165

C. Description of Waste

Name of Waste: **Nonhazardous, Non-TSCA Water from remedial actions**

Process Generating Waste: *Decontamination of equipment and concrete*

Estimated Volume: *240 gallons* *Frequency:* *One time*

Special Handling Instructions: *6 drums of water for solidification prior to disposal*

D. Chemical Composition/Physical Properties

Constituents	*Concentration*
Water	99 – 100%
Soil	0.1 – 1%
Aroclor 1254	.0032 ppm

Physical State:	*Liquid*	*Color:*	*Clear*
Free Liquids:	*95 – 99%*	*Flashpoint:*	*>180*
pH:	*7.8*	*Total Solids:*	*1-5%*
Reactive Cyanide:	NA	*Reactive Sulfide:*	NA

F. Sample/Analysis Information

☐ *Sample submitted with profile* × *Laboratory analysis submitted* ☐ *Material Data Safety Sheet submitted*

Laboratory Name. *Test America Laboratories, Inc.* *Sample Date:* *11/04/09* *Sample ID:* *Drummed Wash Water*

G. Generator Certifications

1. *This waste is not a hazardous waste as defined by federal, state, or local laws and regulations.*
2. *This waste does not contain regulated quantities of PCBs as defined by federal, state or local laws and regulations.*
3. *This waste does not contain infectious wastes as defined by federal, state, or local laws and regulations.*
4. *To the best of my knowledge, all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any analysis submitted was performed on a representative sample as defined in 40 CFR 261 -Appendix 1 and was obtained by using this or an equivalent sampling method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed.*

Generator's Signature: Mark R. Wilson *Title:* Project Engineer

Print Name: Mark R. Wilson as Agent for City of Elgin *Date:* 12-7-09

Special Waste Preacceptance Form (Profile Identification Sheet)

Facility Name:	Veolia ES Orchard Hills Landfill	Facility ID No.	1410175005
Facility Address	8290 HWY 251, Davis Junction, IL 61020	Generator Contact	William Cogley
Generator Name	City of Elgin	Generator Mailing Address (If Different)	150 Dexter Court
Generator Address	20 Jefferson Ave		
	Elgin, IL 60120	Phone No.	847 931-5659
		Transporter	EQ
IL Generator ID No.	ILR 000 048 637	Transporter Phone	630 688-0123
Generator SIC Code			

This is a [X] Pollution Control Waste [ ] Industrial Process Waste as defined in Section 3 of the Act

Process Description: Nonhazardous Water from decontamination of concrete and equipment

Generic Waste Name: Nonhazardous Water

Analysis

(Leave blank by constituent for which analysis has not been conducted)

Physical Characteristics (e.g. color, odor): Water in drums

Major Constituents:

Paint Filter Test (Indicate pass or fail):

Penetrometer Test (Indicate pass or fail in accordance with the procedures in 35 IL Adm Code 729...321):

Waste Phase: Liquid (Indicate solid, liquid, semi solid or compressed gas)

Flash Point °F: >180

Percent Solids:

Percent Acidity/Alkalinity:

pH (for aqueous wastes only): 7.8

	Constituent	Regulatory Threshold Level, ppm	PQL (ppm)	Results of the analysis
D004	Arsenic	5.0	0.300	0.0045
D005	Barium	100.0	0.200	0.136
D006	Cadmium	1.0	0.005	0.007
D007	Chromium	5.0	0.010	0.0091
D008	Lead	5.0	0.100	0.183
D009	Mercury	0.2	0.0002	0.0058
D010	Selenium	1.0	0.250	ND
D011	Silver	5.0	0.010	ND
D012	Endrin	0.02	0.001	ND
D013	Lindane	0.4	0.001	ND
D014	Methoxychlor	10.0	0.002	ND
D015	Toxaphene	0.5	0.010	ND
D016	2,4-Dichlorophenoxyacetic Acid	10.0	0.004	ND
D017	2,4,5-TP Silvex	1.0	0.001	ND
D018	Benzene	0.5	0.005	ND
D019	Carbon tetrachloride	0.5	0.005	ND
D020	Chloradane	0.03	0.010	ND
D021	Chlorobenzene	100.0	0.005	ND
D022	Chloroform	6.0	0.005	0.00088
D023	o-Cresol	200.0	0.100	ND
D024	m-Cresol	200.0	0.200	ND
D025	p-Cresol	200.0	0.200	ND

	Constituent	Regulatory Threshold Level, ppm	PQL (ppm)	Results of the analysis
D026	Cresol	200.0	0.200	ND
D027	1,4-Dichlorobenzene	7.5	0.005	ND
D028	1,2-Dichlorobenzene	0.5	0.005	ND
D029	1,1-Dichloroethylene	0.7	0.005	ND
D030	2,4-Dinitrotoluene	0.13	0.100	ND
D031	Heptachlor (and its epoxide)	.008	0.001	ND
D032	Hexachlorobenzene	0.13	0.100	ND
D033	Hexachlorobutadiene	0.5	0.100	ND
D034	Hexachloroethane	3.0	0.100	ND
D035	Methyl ethyl ketone	200.0	0.050	0.031
D036	Nitrobenzene	2.0	0.100	ND
D037	Pentachlorophenol	100.0	0.100	ND
D038	Pyridine	5.0	0.200	ND
D039	Tetrachloroethylene	0.7	0.005	ND
D040	Trichloroethylene	0.5	0.005	ND
D041	2,4,5-Trichlorophenol	400.0	0.100	ND
D042	2,4,6-Trichlorophenol	2.0	0.100	ND
D043	Vinyl Cloride	0.2	0.005	ND
	Reactive Sulfide		0.30	ND
	Reactive Cyanide		0.010	ND
	Phenols		0.04	0.034
	EOX/TOX (circle one)		0.030	.044
	PCBs		0.001	0.0032

Is the certification form attached which certifies the absence of each constituent for which analysis has not been conducted (non-commingled hazardous waste only): [ ] Yes [ ] No

The above analysis has been conducted in accordance with SW-846 Test Methods for Evaluation of Solid Waste. I have reviewed the analysis and the attached certification from (if applicable) and determined that the waste will be _____ accepted _____ rejected in accordance with the terms of our facility operating permit. In addition, I agree to require the generator to recertify annually that this waste has not changed since the preacceptance analysis was conducted.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is true, accurate and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.

Signature: Mark R. Wilson (Facility operator or duly authorized Agent) Date: 12-7-09

Printed Name: Mark R. Wilson As Agent for City of Elgin Title: Project Engineer

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ILR000048834
2. Page 1 of 1
3. Emergency Response Phone: (630) 327-8881
4. Manifest Tracking Number: 000282505 **WAS**

5. Generator's Name and Mailing Address: City of Elgin/William Cogkey, 150 Dexter Court, Elgin, IL 60120
Generator's Site Address (if different than mailing address): 20 Jefferson Avenue, Elgin, IL
Generator's Phone: 847-931-5889

6. Transporter 1 Company Name: HazChem Environmental Corporation — U.S. EPA ID Number: ILD984785238

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Veolia ES Orchard Hills, 8290 Highway 251, Davis Junction, IL 61120 — U.S. EPA ID Number: 1410175005
Facility's Phone: (815) 874-9000

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non Hazardous, Non BCA Water From Rmedial Actions 255856	6	DM	330	G	None
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Approval # OHL00801-S X 6-55gal Call: (815) 378-1810

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. 01 13 10

Generator's/Offeror's Printed/Typed Name: Mark Wilsons As Agent for City of Elgin for Elgin — Signature: — Month 12 Day 15 Year 09

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Chris Ciolino — Signature: — Month 12 Day 15 Year 09
Transporter 2 Printed/Typed Name — Signature — Month 01 Day 13 Year 10

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name — Signature — Month 01 Day 13 Year 10

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

VEOLIA ENVIRONMENTAL SERVICES

Orchard Hills Landfill
8290 Highway 251 South
Davis Junction, IL 61020

Weighmaster: CINDY
Ticket: 75585575
13 January 2010 10:25 am
13 January 2010 10:57 am
Vehicle: HAZ1

000816
EQ INDUSTRIAL SERVICES, INC.
36255 MICHIGAN AVENUE
Contract: DHL00801-8
Reference: 282505

000000 0000 0.00
Inbound - DISPOSAL CHARGE
KANE CTY/IL

6 drums
330 GAL

00 Gross Weight 19,500.00 lb
Tare Weight 16,620.00 lb
Net Weight 2,880.00 lb 1.44 TN

Quantity	Unit		Description	Rate	Total
6.00	DR	X9	Ext-Tax Exempt Special Waste Ext		
330.00	GA	X9	Ext-Tax Exempt Special Waste Ext		
1.44	TN	X9	Ext-Tax Exempt Special Waste Ext		

Net Amount:

I hereby certify that this load does not contain any unauthorized

SIGNATURE:

APPENDIX L

DATA VALIDATION

CONESTOGA-ROVERS & ASSOCIATES

1801 Old Highway 8 NW, Suite #114
St. Paul, Minnesota 55112
Telephone: (651) 639-0913 Fax: (651) 639-0923
www.CRAworld.com

MEMORANDUM

TO:	Steve Voss, CRA	REF. NO.:	054633
FROM:	Grant Anderson/sb/1	DATE:	December 15, 2009
CC:	Analytical Data File		
RE:	**Data Quality Assessment** **October and November 2009 Sampling Events** **Elgin - Jefferson Yard Site – Elgin, Illinois**		

The following details a data quality assessment for samples collected October 23, 27, 29, and November 2, and 4, 2009, at the Elgin, Jefferson Yard Site in Elgin, Illinois. The samples identified in Table 1 were analyzed for a subset of the parameters listed in Table 2. The analyses were performed by TestAmerica Laboratories, Inc. (TestAmerica) in North Canton, Ohio. The quality assurance criteria were defined in the associated quality assurance project plan (QAPP) as well as by the methods[1].

HOLDING TIME PERIODS

The holding time periods for the analyses are presented in Table 2. On the basis of sample collection and analysis dates on the chain-of-custody forms and the analytical reports provided by TestAmerica, the analyses were completed within the specified holding time periods.

METHOD BLANK SAMPLES

Contamination of the samples contributed by laboratory conditions or procedures was monitored by the concurrent preparation and analysis of method blank samples. Table 3 lists method blank detections. Associated sample data should be qualified as noted in the table.

SURROGATE COMPOUND PERCENT RECOVERIES (SURROGATE RECOVERIES)

Individual sample performance for organic analyses was monitored using surrogate recoveries. The surrogate recoveries for the analyses were within acceptance criteria, indicating that individual sample performance was adequate.

---

[1] Application of quality assurance criteria was consistent with "National Functional Guidelines for Organic Data Review", October 1999 and "National Functional Guidelines for Inorganic Data Review", July 2002.

EQUAL EMPLOYMENT OPPORTUNITY EMPLOYER

REGISTERED COMPANY FOR ISO 9001 ENGINEERING DESIGN

LABORATORY CONTROL SAMPLE (LCS) RECOVERIES

Overall performance of the analyses was monitored by means of LCS. One LCS recovery for pentachlorophenol was above the control limits. However, the associated sample was reported to be non-detect; therefore, no qualification of data was necessary. The remaining LCS recoveries were within acceptance criteria, indicating overall method performance was adequate.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) & LAB DUPLICATE RESULTS

To assess the long-term accuracy and/or precision of the analytical method on various matrices, MS/MSD percent recoveries and/or the relative percent difference (RPD) of the recoveries or duplicate results were determined for the analyses. Table 4 lists outlying MS/MSD data for project-related samples. Associated samples should be qualified as noted in the table.

MATRIX INTERFERENCES

The laboratory reported that matrix interferences were present during the lead analysis of sample S-091023-PS-S02-B1. As a result, the lead result for sample S-091023-PS-S02-B1 should be qualified as estimated (J).

FIELD QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) SAMPLES

The field QA/QC samples associated with this sampling event consisted of three rinsate blanks, and four field duplicate sample sets.

As a check for cleanliness of sampling equipment, three rinsate blank samples were collected as authentic samples for labeling and submission to the laboratories. The rinsate blanks were reported to be free from detectable concentrations of target analytes, indicating that adequate decontamination of sampling equipment had occurred.

Overall precision for the sampling event was monitored using the four field duplicate sample sets identified in Table 1. Table 5 lists outlying field duplicate sample data. Associated sample data should be qualified as noted in the table.

OVERALL ASSESSMENT

The data were found to exhibit acceptable levels of accuracy and precision and may be used with the qualifications noted above and in Tables 3, 4 and 5.

TABLE 1

SAMPLE IDENTIFICATION NUMBERS
ELGIN - JEFFERSON YARD SITE
OCTOBER and NOVEMBER 2009 SAMPLING EVENTS

Sample ID	*QC Sample Location*
S-091023-PS-JSS10-B1	
S-091023-PS-JSS10-S1	
S-091023-PS-S02-B1	
S-091023-PS-S02-B2	
S-091023-PS-S02-B3	
S-091023-PS-S02-S1	
S-091023-PS-S02-S2	
S-091023-PS-S02-S3	
S-091023-PS-S04-B1	
S-091023-PS-S04-B1 DUP	S04 B1 (dup)
S-091023-PS-S04-B2	
S-091023-PS-SB11-B1	
W-091023-PS-RB1	Rinsate
NON-TSCA STABILIZED	
TSCA SOIL	
TSCA STABILIZED	
S-091027-PS-JB1-B1	
S-091027-PS-JB1-B1 DUP	JB1 B1 (dup)
S-091027-PS-JSS7-B1	
S-091027-PS-JSS8-B1	
S-091027-PS-JSS8-B2	
S-091027-PS-JSS9-B1	
S-091027-PS-JSS9-B2	
S-091027-PS-JSS9-B3	
S-091027-PS-JSS9-S1	
S-091027-PS-JSS9-S2	
S-091027-PS-JSS9-S3	
W-091027-PS-RB2	Rinsate
S-091029-PS-SB11-B1R	
S-091102-PS-JSS9-B2R	
S-091102-PS-JSS9-B2R DUP	JSS9 B2R (dup)
S-091102-PS-JSS9-S2R	
S-091102-PS-JSS9-S2RR	JSS9 S2R (dup)
W-091102-PS-RB3	Rinsate
DRUMMED WASH WATER	

TABLE 2

SUMMARY OF ANALYTICAL PARAMETERS
AND HOLDING TIME PERIODS
ELGIN-JEFFERSON YARD SITE
OCTOBER and NOVEMBER 2009 SAMPLING EVENTS

Analysis - Method [1]	*Holding Time* [2]
Metals (ICP - Cd, Pb) - SW 6010B	6 months
Polychlorinated Biphenyls (PCBs) - SW 8082	water - 7/40 days[3] soil - 14/40 days[4]
TCLP Metals (ICP - Cd, Pb) - SW 1311/6010B	6 months/6 months[5]
RCRA Metals - SW 6010B/7471A	6 months mercury - 28 days
pH - SW 9040B	analyze immediately
Herbicides - SW 8151A	7/40 days[3]
Cyanide, Total - SW9012A	14 days
Pesticides - SW 8081A	7/40 days[3]
Ignitability - SW 1010	NA
Phenolics - EPA 420.1	28 days
PCBs - SW 8082	7/40 days[3]
SVOCs - SW 8270C	7/40 days[3]
Sulfides - SW9030B/9034	7 days
Total organic halogens (TOX) - SW 9020	28 days
VOCs - SW 8260B	14 days

Notes:

1 Methods were derived from:
SW- "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.
EPA- "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and Subsequent revisions.

2 Holding time periods are based from sample collection date to sample analysis date.

3 7 days from sample collection to extraction/40 days from extraction to completion of analysis.

4 14 days from sample collection to extraction/40 days from extraction to completion of analysis.

5 6 months from sample collection to extraction/6 months from extraction to completion of analysis.

TABLE 3

SAMPLE RESULTS QUALIFIED BASED ON
METHOD BLANK DATA
ELGIN-JEFFERSON YARD SITE
OCTOBER and NOVEMBER 2009 SAMPLING EVENTS

Analysis	*Batch*	*Analyte*	*Blank Concentration (mg/l)*	*Associated Samples*	*Qualifier* [1]
Metals	9299014	Chromium	0.0046	TSCA STABILIZED	0.50U
		Selenium	0.0067	TSCA STABILIZED	0.25U
VOC	9320462	Methylethyl Ketone	6.1 ug/L	Drummed Wash Water	50U

Notes:

[1] Sample results should be qualified as:

U - Not present at or above the associated value.

TABLE 4

OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE DATA
ELGIN-JEFFERSON YARD SITE
OCTOBER and NOVEMBER 2009 SAMPLING EVENTS

Sample ID	*Batch*	*Analyte*	*MS %R*	*MSD %R*	*%R Limits*	*RPD*	*RPD Limits*	*Qualifier*[1]	*Associated Samples*
S-091102-PS-JSS9-B2R	9307284	Lead	138	136	75-125	0.63	20	J	S-091102-PS-JSS9-S2R S-091102-PS-JSS9-S2RR S-091102-PS-JSS9-B2R

Notes:

[1] Sample results should be qualified as:
J - Estimated concentration.

TABLE 5

NON-COMPARABLE FIELD DUPLICATE RESULTS
ELGIN-JEFFERSON YARD SITE
OCTOBER and NOVEMBER 2009 SAMPLING EVENTS

Analysis	*Parameter*	*Result 1* *S-091027-PS-JSS9-B2* *(mg/kg)*	*Result 2* *S-091027-PS-JSS9-B3* *(mg/kg)*	*RPD* [1]	*Qualifier* [2]
Metals	Lead	343	628	58.7	J/J

Notes:

[1] RPD-Relative Percent Difference

[2] Sample results should be qualified as:

J - Estimated concentration.