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June 07, 2011

Mr. Allen Gaither  
North Carolina Dept. Of Environment and Natural Resources  
Asheville Regional Office  
Division of Waste Management - Solid Waste Section  
2090 US 70 Highway,  
Swannanoa, NC 28778

Re: Final Investigation Report  
Old Fort Landfill - 1240 Parker-Padgett Road, Old Fort, North Carolina

Dear Mr. Gaither:

RJN Environmental, Inc. is pleased to present this Final Investigation Report for the above referenced site that was prepared for IAC Group North America. The following report describes the scope-of-work completed in order to initiate landfill closure activities. If you have any questions or comments regarding RJN's findings, please do not hesitate to contact Robert Nowakowski at (248)-219-9228.

Sincerely,

Robert J. Nowakowski, CPG  
Principal Geologist

Permit No.	Date	DIN
56-03	June 7, 2011	14162

Attachments

cc: Patrick Kresnak, IAC Group NA

RECEIVED  
**June 7, 2011**  
Solid Waste Section  
Asheville Regional Office

**FINAL INVESTIGATION REPORT  
OLD FORT LANDFILL  
1240 PARKER-PADGETT ROAD  
OLD FORT, NORTH CAROLINA**

**Prepared for:**

**IAC Group North America  
28333 Telegraph Road  
Southfield, Michigan 48034**

**Attn: Mr. Patrick Kresnak**

Prepared by:

**RJN Environmental, Inc.  
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June 7, 2011

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## 1.0 INTRODUCTION

RJN Environmental Inc. (RJN) has been contracted by Mr. Patrick Kresnak of IAC Group North America (IAC) to complete landfill closure investigation activities of the Old Fort Landfill (Permit #56-03), known as the Collins & Aikman Carpet Scrap Landfill and identified in this report as the Subject Site. The Subject Site has previously been owned and operated by Collins & Aikman (C&A) for the disposal of solid waste carpet products identified as carpet scrap. IAC has not utilized the landfill since its acquisition in 2007 from C&A. As a result, IAC has decided to investigate the possibility of a formal closure of the landfill.

The following is based on the November 4, 2010, "Revised Workplan For Landfill Investigation and Closure" prepared by RJN and submitted by IAC. This workplan was approved by the North Carolina Department of Environment and Natural Resources, Division of Waste Management in a letter to IAC, dated November 5, 2010.

The Subject Site is located on State Road 1240 in Old Fort, North Carolina. The Subject Site is approximately 86 acres in size. The Subject Site is located approximately five miles from the IAC plant in Old Fort. Under ownership by C&A carpet scrap from their manufacturing process was baled and hauled to the landfill by contracted haulers. The bales were stacked prior to being covered with six inches of soil on a weekly basis. The dimensions of the bales were measured at approximately 4 x 3 x 3 feet.

## 2.0 INVESTIGATIVE PROCESS

Based on the November 4, 2010 Revised Workplan For Landfill Investigation and Closure, RJN completed the following tasks:

- Reviewed historical work completed at the Subject Site.
- Visual assessment of the conditions of the landfill including drainage patterns, erosion features and topography.
- Completed a groundwater sampling event. On December 6, 2010, RJN completed groundwater sampling of existing monitoring wells, MW-1, MW-1A, MW-2, MW-3 and MW-4. Each of the monitoring wells were located, and the caps removed to allow the static water level to equilibrate. Static water levels were then recorded from each well. The wells were then purged by hand bailing, removing approximately five well volumes of water from each well.

The collected water samples were packed on ice. A chain-of-custody form was filled out in the field, and the samples were sent to ESC Laboratory in Mt. Juliet Tennessee for the analysis of RCRA Metals (Metals) by USEPA Methods 7470A, and 6010B.

- On December 6, 2010, RJN monitored the installation of a methane monitoring well, MthW-1 to aid in determining if the landfill materials are decomposing.
- On December 7, 2010 through December 8, 2010, RJN monitored the advancement of four soil borings, SB-1 through SB-4. Collected soil samples were utilized to assess the potential for future leaching of the landfill materials. These soil/waste samples were analytically evaluated for volatile organic compounds (VOCs) by USEPA Method 8260, semivolatile organic compounds by USEPA Method 8270; and RCRA Metals by USEPA Methods 7471 (for mercury) and 6010B. In addition, two samples were selected for TCLP - metals; TCLP volatiles; TCLP Pesticides; and TCLP Herbicides.

## **2.1 Deviations from November 4, 2010 Revised Workplan for Landfill Investigation and Closure**

The November 4, 2010 "Revised Workplan for Landfill Investigation and Closure" indicated that RJN would advance up to 40 soil borings throughout the surface area of the landfill. However, upon initiating the work, it was determined that the carpet waste was significantly impeding the vertical progress of the drill rig. At no time could the drill penetrate more than eight feet into the landfill material, and this was done at great difficulty. As a result, RJN was only able to complete four soil borings to a maximum depth of 12 feet below ground level (bgl) along the edges of the landfill.

However, this did not significantly impact the results of the investigation. The purpose of completing the 40 soil borings was twofold as described below:

- First, samples of the landfill materials were to be collected for laboratory analysis. Even though the scope of drilling was reduced, RJN was able to collect representative landfill materials from four separate locations for analysis by analytical methods outlined above.
- Second, the 40 soil borings were to be used to determine the base of the landfill and subsequently, to calculate the total landfill volume. Although our investigation could not penetrate the landfill materials to the base, IAC was able to provide RJN with the disposal records so that the landfill volume was calculated in this manner.

### 3.0 HISTORICAL SUMMARY

The following paragraphs summarize the history of the development and use of the Subject Site as well as the numerous sampling events conducted at the Subject Site. Refer to Table 3 - Historical Groundwater Results for the tabulated analytical data made available to RJN.

#### 3.1 Historical Use of Subject Site

The landfill was operated in three phases as indicated on Figure 2 - Site Plan. The original landfilling operations (Phase 1) were along the central western portion of the Subject Site. Phase I was operated from early 1982 to late 1982. Phase 2 was operated from late 1982 to 1985 south of the drainage feature along the central eastern portion of the Subject Site. From 1985 through 2005, the remaining operations, known as Phase 3, were located over the drainage feature north of Phase 2. There has been no landfilling since 2005.

Landfill records were available for review for the years 1985 through 2005. Prior to 1985, written records were not available and the estimates in the table below were provided by Jack Davis, the former Plant Engineer for C&A during this time period. According to Davis, Phase 1 and Phase 2 comprised approximately 30% of the landfill by volume. Based on the Phase 3 cell records of 92,000 tons, it is estimated that during the period of 1982 through 1985 approximately 30,000 tons of carpet scrap were deposited in the Phase I and Phase 2 cells.

Beginning in July 1992, Sanitary Landfill Annual Reports were issued to the State of North Carolina, Department of Environment, Health and Natural Resources, Division of Solid Waste. These historical records indicate the Subject Site received its first shipment of carpet scrap in January 1982. The disposal of carpet scrap continued until the final shipment was received in June 2005. C&A was the only entity to dispose of carpet scrap into the landfill. By the time of the transaction, whereby the title of the Subject Site was transferred to IAC in 2007, shipments of carpet waste to the landfill had been halted, as a recycling program was instituted instead. The following table summarizes the landfill records.

1982 through 1985	30,000 tons (estimated only)
1986	5,490 tons
1987	5,677 tons
1988	6,978 tons
1989	6,210 tons
1990	5,221 tons
1991	5,754 tons
January 1, 1992 - June 30, 1992	3,650 tons

July 1, 1992 - June 30, 1993	6,439 tons
July 1, 1993 - June 30, 1994	6,618 tons
July 1, 1994 - June 30, 1995	6,603 tons
July 1, 1995 - June 30, 1996	4,740 tons
July 1, 1996 - June 30, 1997	3,404 tons
July 1, 1997 - June 30, 1998	2,647 tons
July 1, 1998 - June 30, 1999	2,795 tons
July 1, 1999 - June 30, 2000	2,791 tons
July 1, 2000 - June 30, 2001	2,988 tons
July 1, 2001 - June 30, 2002	1,465 tons
July 1, 2002 - June 30, 2003	4,748 tons
July 1, 2003 - June 30, 2004	5,292 tons
July 1, 2004 - June 30, 2005	6,724 tons
July 1, 2005 - June 30, 2006	0 tons
July 1, 2006 - June 30, 2007	0 tons
July 1, 2007 - June 30, 2008	0 tons
July 1, 2008 - June 30, 2009	0 tons
July 1, 2009 - June 30, 2010	0 tons
<b>Total Carpet Scrap</b>	<b>126,234 tons</b>

Based on the above records and estimates, the total carpet scrap disposed of at the Subject Site is estimated to be 126,234 tons. Refer to Appendix A - Landfill Disposal Records for the Sanitary Landfill Annual Reports.

### **March 3, 1989, Results of Water Sampling and Testing - Sanitary Landfill.**

As a result of an October 15, 1987 request from North Carolina Solid & Hazardous Waste Management Branch, Law Environmental obtained and tested samples of surface water and groundwater from the Subject Site. Monitoring Wells, MW-1, MW-2 and MW-2a were installed at the Subject Site. Monitoring Well, MW-2a was later abandoned since its installation was unsuitable. These wells were sampled on January 23 through January 24, 1989. In addition, surface water samples were collected from a small on-site stream, upstream (northeast) and downstream (southwest) of the proposed landfill. Samples were analyzed for

Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Organic Carbon (TOC), dissolved solids (Residue, filterables), and Total Organic Halides (TOX). Results indicated typical levels of BOD, COD, TOC and dissolved solids. However, TOX was indicated at elevated levels in MW-1, MW-2 and SW-2. Note that this is prior to the development of the Subject Site as a landfill. Refer to Table 3 - Historical Groundwater Results.

#### **March 22 and April 3, 1990 Sampling Event**

Groundwater samples were collected from MW-1 on April 3, 1990 and from MW-2 on March 22, 1990 and submitted to Wastewater Services for analysis of BOD, COD, TOC, TOX, dissolved solids, conductivity, and pH.

#### **January 5, 1993 Sampling Event**

Groundwater samples were collected from MW-1, MW-2 along with upstream and downstream surface water samples and submitted to Pace Incorporated (Pace) for analysis of BOD, COD, TOC, TOX, dissolved solids, conductivity, temperature, and pH.

#### **May 11, 1993 Sampling Event**

Groundwater samples were collected from MW-1, MW-2 along with upstream and downstream surface water samples and submitted to Pace for analysis of BOD, COD, TOC, TOX, dissolved solids, conductivity, temperature, and pH.

#### **November 17, 1993 Sampling Event**

Groundwater samples were collected from MW-1, MW-2 along with upstream and downstream surface water samples and submitted to Pace for analysis of BOD, COD, TOC, TOX, dissolved solids, conductivity, temperature, and pH.

#### **May 12, 1994 Sampling Event**

Groundwater samples were collected from MW-1, MW-2 along with upstream and downstream surface water samples and submitted to Pace for analysis of BOD, COD, TOC, TOX, dissolved solids, conductivity, temperature, and pH.

#### **November 10, 1994 Sampling Event**

Groundwater samples were collected from MW-1, MW-2 along with upstream and downstream surface water samples and submitted to Pace for analysis of BOD, COD, TOC, TOX, dissolved solids, conductivity, temperature, and pH.

#### **May 11, 1995 Sampling Event**

Groundwater samples were collected from MW-1, MW-2 along with upstream and downstream surface water samples and submitted to Pace for analysis of BOD, COD, TOC, TOX, dissolved solids, conductivity, temperature, and pH.

#### **November 15, 1995 Sampling Event**

Groundwater samples were collected from MW-1, MW-2 along with upstream and downstream surface water samples and submitted to Pace for analysis of BOD, COD, TOC, TOX, dissolved solids, conductivity, temperature, and pH.

#### **May 13, 1996 Sampling Event**

Groundwater samples were collected from MW-1, MW-2 along with upstream and downstream surface water samples and submitted to Pace for analysis of BOD, COD, TOC, TOX, dissolved solids, conductivity, temperature, and pH.

#### **June 1996 Stormwater Sampling and Analysis Plan**

S&ME submitted this plan to provide the necessary requirements for the individual stormwater discharge permit application. This plan included stormwater monitoring locations, monitoring frequency, monitoring and sampling procedures and reporting requirements.

#### **June 1996 Compliance Boundary and Modeling Plan**

S&ME submitted this plan to establish a compliance boundary, and compliance monitoring locations. In this plan, it was proposed that additional monitoring wells and stormwater compliance points be established.

#### **June 1996 Collins & Aikman TCLP Data**

On June 3, 1996, Collins & Aikman collected and submitted three samples of carpet materials for analysis of Base/Neutral/Acid Extractables by TCLP Method. The three samples were identified as: 1) Moldable Nonwoven; 2) Barrier Back; and 3) Polyback; all various types of carpeting materials disposed of in the Subject Site landfill. Results indicated non-detectable levels in the analyzed leachate from each of the samples. This test indicates that the materials in the landfill would not leach. Refer to Appendix C for the Collins & Aikman TCLP Data.

#### **June 1997 Waste Management Plan**

C&A submitted a general Waste Management Plan outlining the waste stream evaluation, waste reduction goals, management options and strategy. Basically this plan states that C&A will reduce and recycle the carpet waste, and utilize the landfill as a last resort.

### **June 27, 1997 Initial Water Quality Monitoring Report**

S&ME was contracted by C&A to complete investigation activities including the installation of additional monitoring wells, surveying of all the monitoring wells, collecting water level data, conducting hydraulic conductivity tests and collecting groundwater samples from previously and newly installed monitoring wells. Monitoring wells MW-1A, MW-3 and MW-4 were installed on May 8 through 9, 1997. Groundwater samples were collected on May 1, 1997 from MW-1A, MW-2, MW-3, and MW-4 along with upstream and downstream surface water samples (SW-1 through SW-4) and submitted to Pace for analysis of RCRA Metals, conductivity, temperature, and pH. This was the first sampling event to include RCRA Metals in the analysis.

In addition, in-situ rising head permeability tests were performed on MW-1A, MW-2, MW-3 and MW-4 with results indicating hydraulic conductivity values ranging from  $1 \times 10^{-4}$  to  $5 \times 10^{-4}$  cm/sec. These values are consistent with relatively well sorted, coarse to fine sandy silt.

### **April 21, 1998 Sampling Event**

Groundwater samples were collected from MW-1A, MW-2, MW-3, and MW-4 along with upstream (SW-1) and downstream (SW-2) surface water samples and submitted to Pace for analysis of RCRA Metals, conductivity, temperature, and pH.

### **October 5, 1998 Sampling Event**

Groundwater samples were collected from MW-1A, MW-2, MW-3, and MW-4 and submitted to Pace for analysis of RCRA Metals, conductivity, temperature, and pH.

### **April 22, 1999 Sampling Event**

Groundwater samples were collected from MW-1A, MW-2, MW-3, and MW-4 and submitted to Pace for analysis of RCRA Metals, conductivity, temperature, and pH.

### **April 17, 2000 Sampling Event**

Groundwater samples were collected from MW-1A, MW-2, MW-3, and MW-4 and submitted to Pace for analysis of RCRA Metals, conductivity, temperature, and pH.

### **October 19, 2000 Sampling Event**

Groundwater samples were collected from MW1A, MW2, MW3, and MW4 and submitted to Pace for analysis of RCRA Metals, conductivity, temperature, and pH. These same samples were re-analyzed by Pace on October 25, 2000 and reported on November 17, 2000.

**October 1, 2002 Sampling Event**

Groundwater samples were collected from MW-1A, MW-2, MW-3, and MW-4 and submitted to Pace for analysis of RCRA Metals, conductivity, temperature, and pH.

**April 7, 2003 Sampling Event**

Groundwater samples were collected from MW-1A, MW-2, MW-3, and MW-4 and submitted to Pace for analysis of RCRA Metals, conductivity, temperature, and pH.

**October 13, 2003 Sampling Event**

Groundwater samples were collected from MW-1A, MW-2, MW-3, and MW-4 and submitted to Pace for analysis of RCRA Metals, conductivity, temperature, and pH.

**April 21, 2004 Sampling Event**

Groundwater samples were collected from MW-1A, MW-2, MW-3, and MW-4 and submitted to Pace for analysis of RCRA Metals, conductivity, temperature, and pH.

**October 27, 2004 Sampling Event**

Groundwater samples were collected from MW-1A, MW-2, MW-3, and MW-4 and submitted to Pace for analysis of RCRA Metals, conductivity, temperature, and pH.

**April 20, 2005 Sampling Event**

Groundwater samples were collected from MW-1A, MW-2, MW-3, and MW-4 and submitted to Pace for analysis of RCRA Metals, conductivity, temperature, and pH.

**November 04, 2005 Sampling Event**

Groundwater samples were collected from MW-1A, MW-2, MW-3, and MW-4 and submitted to Pace for analysis of RCRA Metals, conductivity, temperature, and pH.

**October 11, 2006 Sampling Event**

Groundwater samples were collected from MW-1A, MW-2, MW-3, and MW-4 and submitted to Pace for analysis of RCRA Metals, conductivity, temperature, and pH.

**April 17, 2007 Sampling Event**

Groundwater samples were collected from MW-1A, MW-2, MW-3, and MW-4 and submitted to Pace for analysis of RCRA Metals, conductivity, temperature, and pH.

**October 25, 2007 Sampling Event**

Groundwater samples were collected from MW-1A, MW-2, MW-3, and MW-4 and submitted to Pace for analysis of RCRA Metals, conductivity, temperature, and pH.

**April 28, 2008 Sampling Event**

Groundwater samples were collected from MW-1A, MW-2, MW-3, and MW-4 and submitted to Pace for analysis of RCRA Metals, conductivity, temperature, and pH.

**October 16, 2008 Sampling Event**

Groundwater samples were collected from MW-1A, MW-2, MW-3, and MW-4 and submitted to Pace for analysis of RCRA Metals, conductivity, temperature, and pH.

**April 28, 2009 Sampling Event**

Groundwater samples were collected from MW-1A, MW-2, MW-3, and MW-4 and submitted to Pace for analysis of RCRA Metals, conductivity, temperature, and pH.

**November 13, 2009 Sampling Event**

Groundwater samples were collected by RJN from MW-1, MW-1a, MW-2, MW-3 and MW-4 and submitted to ESC Laboratory for analysis of RCRA Metals, VOCs, PCBs, and SVOCs. Field parameters were collected including dissolved oxygen, pH, conductivity and temperature. In addition, RJN conducted falling head tests to calculate permeabilities.

**October 25, 2010 Sampling Event**

Groundwater samples were collected from MW-1A, MW-2, MW-3, and MW-4 and submitted to Pace for analysis of RCRA Metals, conductivity, temperature, and pH.

### **November 4, 2010, Revised Workplan For Landfill Investigation and Closure**

Since IAC received ownership of the Subject Site in 2007, IAC has never utilized the landfill for waste disposal. Instead, all waste carpet materials are sent out for recycling. As a result, IAC is considering landfill closure. In order to determine the options for closure, IAC contracted with RJN to complete an investigation of the Subject Site. A series of correspondence resulted in the submission and approval of a workplan for investigation referenced above.

### **December 2010 Landfill Closure Investigation**

Based on the approved November 4, 2010, "Revised Workplan for Landfill Investigation and Closure", RJN mobilized to the Subject Site in December 2010 to complete a surface and subsurface investigation. The investigation included completing a groundwater sampling event, installing a methane monitoring well, and advancing four soil borings. Groundwater samples were submitted for analysis of RCRA Metals. Selected soil samples were submitted for analysis of VOCs, SVOCs, RCRA Metals, TCLP - metals; TCLP volatiles; TCLP Pesticides; and TCLP Herbicides.

## **4.0 PROCEDURES**

### **4.1 Soil Boring and Methane Well Installation Procedures**

The methane monitoring well MthW-1 was installed on December 6, 2011 with a truck mounted, combination rotary / pneumatically driven, boring device by American Environmental Drilling of Aberdeen, North Carolina. The methane well MthW-1 was located in-between landfill cells Phase I and Phase 3, near the edge of the Phase 3 cell as indicated on Figure 2. The soil boring for the MthW-1 was advanced to a depth of 30 feet below ground level (bgl) and consisted of 25 feet of 4-inch diameter PVC screen with 4 feet of 4-inch diameter riser. The methane well, MthW-1 was finished as a stick-up and was not secured with concrete to ease in the removal of the well. Soil samples were collected at five foot intervals for field screening with a PID and methane meter as described below.

Soil borings SB-1 through SB-4 (see Figure 2) were advanced on December 7 through December 8, 2011 with a truck mounted, combination rotary / pneumatically driven, boring device. The soil borings were advanced by American Environmental Drilling. Discrete soil samples were obtained with a large bore sampler, which is a 60-inch-long by 1 3/8-inch outer diameter (OD) stainless steel piston-type soil sampler. The soil samples were recovered in a 48-inch-long, 1 1/16-inch OD disposable acetate liner located within the large bore sampler. A new disposable acetate liner was used to obtain each soil sample from the large bore sampler. Samples were collected continuously in 5-foot intervals to the base of each boring at 15 feet bgl. The geoprobe borings were backfilled with the original cuttings and bentonite upon completion and the surface was left unfinished with a sand cover like the original surface materials. The locations of SB1 through SB4 were limited to the edges of the landfill, due to the inability of the boring machine to penetrate a great deal through the carpet waste.

## 4.2 Soil Sampling Procedures

Two types of soil samples were obtained from each soil sampling interval:

### Soil Samples for Field Screening

Soil samples were physically classified and evaluated for VOC concentrations using a head space screening methodology. The head space screening involved partially filling a 150 ml “zip-lock” plastic bag with soil and closing the bag. The samples were subsequently allowed to stabilize for a period of at least 5 minutes. Head space readings were obtained by inserting a PID probe into the bag. The head space screening results were recorded in the field notes. The samples were visually inspected for staining, and screened using olfactory methods for odors. In addition to monitoring with a PID, each soil sample was screened with an Eagle 4-gas methane meter.

### Analytical Soil Samples

Soil samples were collected for potential laboratory analysis based on field screening results (elevated PID readings, or apparent visual discoloration) or at a depth near the source of potential impact (near surface or vadose zone). Selected soil samples were submitted for various analytical methods described above and for moisture content. Soil samples for VOCs were collected using a teflon syringe to extract a 10 gram portion of soil, and placing the sample into a 40 milliliter (ml) vial containing 10 ml of methanol, and packing additional samples into a 4-ounce and 8-ounce jars, then placed on ice. Each sample was assigned a unique identification number and recorded on a chain-of-custody record which indicates the location the sample was taken and verifies the sampling handling sequence. All soil samples were delivered to ESC’s laboratory in Mt. Juliet, Tennessee.

Drilling tools (i.e., Geoprobos, hand auger) were steam cleaned prior to coring at each location. Sampling tools were cleaned prior to and between sampling intervals with a laboratory-grade Liqui-Nox solution wash and rinsed with water.

## 4.3 Groundwater Sampling Procedures

A round of groundwater samples were collected on December 6, 2011. Prior to the collection of groundwater samples, each well was purged utilizing a Geotech Geopump, which is a low-flow peristaltic pump. The wells were purged until the purge water was clear and free of sediment. Once the purge water clarified, groundwater samples were collected from each well utilizing the same peristaltic pump. Groundwater samples were collected for the analytical methods described above. Each sample was immediately place on ice and assigned a unique identification number and recorded on a chain-of-custody record which indicates the location the sample was taken and verifies the sampling handling sequence. All groundwater samples were delivered to ESC’s laboratory in Mt. Juliet, Tennessee.

Physical field measurements were collected from each monitoring well including pH, dissolved oxygen and conductivity utilizing a Horiba U-10 meter. In addition, static water levels were measured at each location.

#### **4.4 Methane Monitoring Procedures**

Per the conditions of the November 4, 2010, "Revised Workplan For Landfill Investigation and Closure", immediately upon completion of MthW-1, a static water level meter was lowered into the methane well to determine the level of groundwater. Groundwater was encountered at 26 feet bgl. As a result, a probe was fitted to 25 feet of Teflon tubing and connected to an Eagle methane meter. The probe was then lowered into the well to a point just above the groundwater in the well. Methane readings were collected as the probe was raised to the surface. This was initiated late in the day of December 6, 2010 and repeated numerous times until the end of the day on December 8, 2010.

## **5.0 RESULTS**

### **5.1 Site Geology and Hydrogeology**

The Subject Site is considered very hilly with a large ridge at 1,500 feet above mean sea level (msl) along the eastern edge of the landfill. The Subject Site generally slopes to the west dropping to an elevation of 1,400 feet msl towards Brevard Creek to the west. Surface drainage follows the topography running west towards Brevard Creek.

Based on work completed in 1996 and 1997 by S&ME, and the recent December 2010 investigation by RJN, the subsurface soils are known to generally consist of clayey silts and silty sands to a depth of at least 65 feet below ground surface (bgs) along the top of the surrounding ridges. These silty sands are interbedded with localized coarser rocky zones due to less weathered bedrock horizons. Soil borings SB-1 through SB-4 and MthW-1 were advanced entirely through fill material consisting of fill sand, fill gravel and carpet scrap including carpet fibers, pieces and backing. The observed subsurface soil conditions varied little between soil boring locations and were generally consistent across the area of exploration.

The water-bearing zone was encountered in the methane well, MthW-1 at a depth of 26 feet bgl. Groundwater was not encountered in any of the soil borings, SB1 through SB4 to the completion depths of 12 feet bgl. Refer to Appendix B for the historical soil boring logs and monitoring well construction diagrams.

Bail-down tests conducted by RJN in November 2009 determined an average hydraulic conductivity value of 0.0004 cm/sec. Based on a calculated hydraulic gradient of 0.015 ft/ft (between MW-1A and MW-4, and a measured porosity of 0.15, the groundwater flow velocity is approximately 150 feet/year, indicating a relatively strong aquifer. This is consistent with the results of S&ME's investigation in 1997.

Based on the static water levels collected on December 6, 2010, the groundwater flow is calculated to flow to the west, towards Brevard Creek. This strongly reflects the local topography, which is consistent with historical results. Refer to Figure 4 for the groundwater flow direction and Table 1 - Monitoring Well Data and Table 2 Groundwater Elevation Table. It should be noted that the existing monitoring wells are not properly triangulated due to the steep terrain and thick woods surrounding the landfill. This has resulted in only rough estimates on the location of the groundwater gradient lines.

The groundwater samples collected from monitoring wells, MW-1 and MW-1A, were found to be slightly silty, while the remaining monitoring wells, MW-2, MW-3 and MW-4 were found to be extremely silty. Purging of the monitoring wells did not result in any clearing of silt. As a result, the groundwater samples collected in December 2010 were generally poor in quality, with much included silt. This is likely true for much of the historical groundwater sampling at the Subject Site.

## 5.2 Methane Screening Results

The results of the field screening with a PID and methane meter indicated non-detectable levels of VOCs and methane from SB1 through SB4 and from the methane well, MthW-1. The table below lists the field screening times and results for the methane monitoring well MthW-1. In addition, refer to the Soil Boring Logs (Appendix B) for the PID and methane screening of soil samples collected from SB-1 through SB-4, and MthW-1.

Date-Time	PID Result (ppm)	Methane Result (ppm)
12-6-10 at 1700 hours	0.0	0.0
12-7-10 at 0800 hours	0.0	0.0
12-7-10 at 1000 hours	0.0	0.0
12-7-10 at 1200 hours	0.0	0.0
12-7-10 at 1400 hours	0.0	0.0
12-7-10 at 1600 hours	0.0	0.0
12-7-10 at 1700 hours	0.0	0.0
12-8-10 at 0700 hours	0.0	0.0
12-8-10 at 0900 hours	0.0	0.0
12-8-10 at 1100 hours	0.0	0.0
12-8-10 at 1300 hours	0.0	0.0
12-8-10 at 1500 hours	0.0	0.0

Based on the November 4, 2010, Revised Workplan For Landfill Investigation and Closure, since there were no detectable readings for methane, RJN and American Environmental Drilling removed MthW-1 by backfilling with bentonite chips while the PVC was removed from the ground in 10-foot sections. The backfilling with bentonite was completed to within 3 feet of the surface. Natural sands were utilized to complete the backfill. A Well Abandonment Log is included in Appendix B for MthW-1.

The lack of methane is consistent with the landfilled materials of carpet and carpet scrap. These are plastic based materials that are not likely to decompose. Methane is only produced when organic materials decompose. As indicated earlier, there are no organic materials landfilled at the Subject Site.

### 5.3 Laboratory Analytical Results - Soil

A total of four soil samples (SB-1 10-12', SB-2 5-6', SB-3 3-5', SB-4 7-9') were selected for analyses including SVOCs, VOCs, and RCRA metals (arsenic, cadmium, selenium, silver, mercury, barium, chromium and lead). In addition, two samples (SB-2 5-6' and SB-4 7-9') were submitted for TCLP Metals, TCLP VOCs, TCLP Pesticides and TCLP Herbicides. The analytical results from the December 2010 event are included in Appendix C and tabulated on Tables 4A through 4D.

With regard to SVOCs, and VOCs, all four analyzed soil samples were indicated at non-detectable levels. Refer to Figure 3A -Soil Analytical 12/10 along with Tables 4A Soil Analytical SVOCs and Table 4B Soil Analytical VOCs for the tabulated data.

With regard to RCRA Metals, results generally indicate background or close to background levels of metals for this region of North Carolina (Piedmont) and the soil types derived from metamorphic rocks. Mercury was indicated at non-detectable to very low concentrations of 0.002 mg/kg (SB-3 3-5'). Arsenic was detected at concentrations ranging from 12 mg/kg (SB-1 10-12') to 16 mg/kg (SB-2 5-6'). Barium was detected at concentrations ranging from 270 mg/kg (SB-3 3-5') to 460 mg/kg (SB-4 7-9'). Cadmium was indicated at non-detectable to very low concentrations ranging 0.23 mg/kg (SB-2 5-6') to 0.42 mg/kg (SB-4 7-9'). Chromium was detected at concentrations ranging from 33 mg/kg (SB-3 3-5') to 56 mg/kg (SB-2 5-6'). Lead was detected at concentrations ranging from 35 mg/kg (SB-3 3-5') to 43 mg/kg (SB-4 7-9'). Selenium was detected at concentrations ranging from 62 mg/kg (SB-3 3-5') to 80 mg/kg (SB-1 10-12'). Silver was not detected in any samples. Refer to Figure 3A - Soil Analytical 12/10 along with Table 4C - Soil Analytical Metals for tabulated data.

With regard to TCLP VOCs, TCLP Pesticides and TCLP Herbicides, all soil samples were indicated at non-detectable levels. Refer to Figure 3B Soil Analytical TCLP 12/10 and Table 4D - Soil Analytical TCLP for tabulated data.

With regard to TCLP Metals, all samples were indicated at non-detectable levels for all metals except for barium. The results of TCLP barium indicated 0.74 mg/l in SB-2 5-6' and 0.15 mg/l in SB-4 7-9'. Refer to Table 4D - Soil Analytical TCLP for tabulated data.

As indicated above, laboratory analytical results are summarized in Tables 4A through 4D. In addition, these data are illustrated on Figure 3. Copies of the ESC laboratory analytical reports are included in Appendix C.

#### **5.4 Groundwater Analytical Results**

The groundwater sampling results from RJNs two sampling events, November 2009 and December 2010 are described below.

##### **5.4.1 Groundwater Analytical Results November 2009**

Groundwater samples were collected on November 9, 2009 for the analysis of Metals, VOCs, PCBs, and SVOCs. Results indicated non-detectable concentrations of VOCs, PCBs and SVOCs in all samples.

The groundwater analytical results for metals indicated non-detectable levels of mercury, arsenic, cadmium, selenium and silver in all of the monitoring wells. Barium was detected in concentrations ranging between 330 ug/l in MW-1A (upgradient) to 760 ug/l in MW-3 (downgradient) compared to the North Carolina Class GA Standard criterion of 700 ug/l (as published on January 1, 2010). Chromium was detected in concentrations ranging between 28 ug/l in MW-1A (upgradient) to 56 ug/l in MW-3 (downgradient) compared to GA Criterion of 10 ug/l. Lead was detected ranging in concentrations between 17 ug/l in MW-1A (upgradient) to 28 ug/l in MW-3 (downgradient) compared to the Class GA criterion of 15 ug/l.

These Laboratory analytical results are summarized in Table 3 and illustrated in Figure 5A. Copies of the ESC laboratory analytical reports for the November 2009 sampling event are included in Appendix C.

##### **5.4.2 Groundwater Analytical Results December 2010**

Groundwater samples were collected on December 6, 2010 for the analysis of RCRA Metals. The analytical results for metals indicated non-detectable levels of mercury, selenium, and silver in all of the monitoring wells. Cadmium was detected in MW-1 (upgradient) at 5 ug/l compared to the GA Criterion of 2 ug/l. Barium was detected at levels ranging from 360 ug/l in MW-1A (upgradient), to 1400 ug/l in MW-3 (downgradient) compared to the GA Criterion of 700 ug/l. Chromium was detected at levels ranging from 32 ug/l in MW-1A (upgradient) to 120 ug/l in MW-3 (downgradient) compared to the GA Criterion of 10 ug/l. Lead was detected at levels ranging from 22 ug/l in MW-1A (upgradient) to 43 ug/l in MW-3 (downgradient) compared to the GA Criterion of 15 ug/l.

These Laboratory analytical results are summarized in Table 3 and illustrated on Figure 5B. Copies of the ESC laboratory analytical reports for the December 2010 sampling event are included in Appendix C.

## 5.5 Regulatory Significance

With regard to the analysis of soils-carpet scrap from SB-1 through SB-4, VOCs and SVOCs were indicated at non-detectable levels. In addition, waste samples subjected to TCLP VOCs, TCLP Herbicides and TCLP Pesticides were all indicated at non-detectable levels.

With regard to the analysis of soils-carpet scrap from SB-1 through SB-4 for RCRA Metals, the levels of metals encountered reflect typical background concentrations for soils derived from metamorphic terrains. In addition, any RCRA metals encountered would not likely result from the waste carpet materials placed into the Subject Site landfill, but would rather be derived from the local soils utilized for fill and cover from the area surrounding the landfill. Although TCLP Barium indicated detectable levels, this is likely the result of leaching of the soil fill, and not a result of the leaching of the carpet wastes.

The above results are consistent with the June 1996, Collins & Aikman TCLP Data, in which C&A submitted three samples of carpet materials for analysis of Base/Neutral/Acid Extractables by TCLP Method. The three samples were identified as: 1) Moldable Nonwoven; 2) Barrier Back; and 3) Polyback., all various types of carpeting materials disposed of in the Subject Site landfill.

With regard to the historical groundwater analyses, concentrations are compared to the applicable North Carolina Class GA criteria, which is protective of groundwater and surface waters of North Carolina. A review of historical groundwater data (Table 3) indicates that metals such as barium, chromium and lead have regularly exceeded the applicable criterion. However, it should be noted that groundwater samples collected from both upgradient and downgradient monitoring wells have exceeded the GA Criterion. This indicates that background metals in soil and groundwater are elevated due to the metamorphic terrain the Subject Site is located in. Further, during the groundwater sampling events of 2009 and 2010 conducted by RJN, it was observed that a great deal of silt is present in the monitoring wells, and that the collected groundwater samples were observed to hold a high percentage of silt. When this silt encounters the nitric acid used as a preservative, some of it dissolves, releasing more metal ions into solution.

## 6.0 CONCLUSIONS

Based on the recent and historical investigations conducted at the Subject Site, the following conclusions can be drawn.

- Approximately 126,234 tons of carpet scrap have been landfilled since January 1982. A review of records indicates that the material was limited to carpet pieces, carpet fibers and carpet backing. Investigative work did not reveal any other materials present.

- Analytical testing of soil cover and carpet scrap indicated non-detectable levels of VOCs and SVOCs. In addition, the results of the tests of carpet scrap materials for TCLP-Base/Neutral/Acid Extractables, TCLP-VOCs, TCLP-Pesticides and TCLP-Herbicides indicated non-detectable levels of these components in the resulting leachate. This indicates that the carpet scrap has not degraded, releasing deleterious compounds. Nor are they likely to degrade in the future. This is consistent with what is known about these types of plastics.
- Analytical testing of Subject Site soil for RCRA Metals indicates the presence of arsenic, cadmium, selenium, barium chromium and lead. These are naturally occurring and present throughout the soil column, and although may be considered elevated for some areas, are representative of metals in soils in a metamorphic terrain. In order to determine the potential disposition of landfill materials, a TCLP-Metals test was conducted in which barium was the only constituent detected in the leachate. Barium was also detected at elevated concentrations in the soil samples prior to the TCLP tests. The presence of these metals at the indicated concentrations does not appear to be at all related to the operations conducted at the Subject Site since January 1982.
- Analytical testing of groundwater for VOCs, SVOCs and PCBs indicated non-detectable concentrations. Again, this indicates that the carpet wastes are not degrading. Analytical testing of groundwater for RCRA Metals indicates elevated concentrations in both upgradient and downgradient wells. The levels encountered are likely elevated due to high background concentrations and the abundant silt in the collected samples. The presence of these metals at the indicated concentrations does not appear to be at all related to the operations conducted at the Subject Site since January 1982.
- A monitoring well was installed in December 2010 to measure levels of methane that may have been present as a result of the degradation of carpet scrap. The well was located between the Phase I cell and the Phase 3 cell, in-between the bales. Methane was not detected in any soil samples collected during the installation nor were they encountered in the completed well. The results of the methane monitoring indicates that the carpet materials have not degraded, and have not released methane. The results are also further indication that there were no organic materials landfilled at the Subject Site.
- Testing of the landfilled carpet scrap indicates they are completely inert, and not likely to be of future concern. Based on this, RJN does not consider that the Subject Site should continue to be treated as a Sanitary Landfill. The closure plan should take into account that the landfilled carpet scrap are not likely degrade in the long-term future. As a result RJN recommends that the Subject Site be removed from the North Carolina list of Sanitary Landfills.

## 7.0 RECOMMENDATIONS

With the completion of the investigation, RJN recommends that IAC proceed with the closure of the Subject Site. As required under Rule .1717 of 15A NCAC 13B.1629, IAC will prepare and submit a Closure Plan and Post-Closure Plan. The Closure Plan and Post-Closure Plan will generally include the following information.

### 7.1 Cap Installation

The Closure Plan will include a description of the cap system and the methods utilized to install the cap. The cap installation will include the stabilization and control of the stormwater and surface water drainage. Since this landfill does not utilize a base liner system, a Local Characterization Study will be included. Finally, the cost estimate for closure will be submitted to meet the Financial Assurance Mechanism.

Note that the Closure Plan will indicate that leachate management and gas management will not be required due to the demonstrated nature of the landfilled materials, as non-degrading.

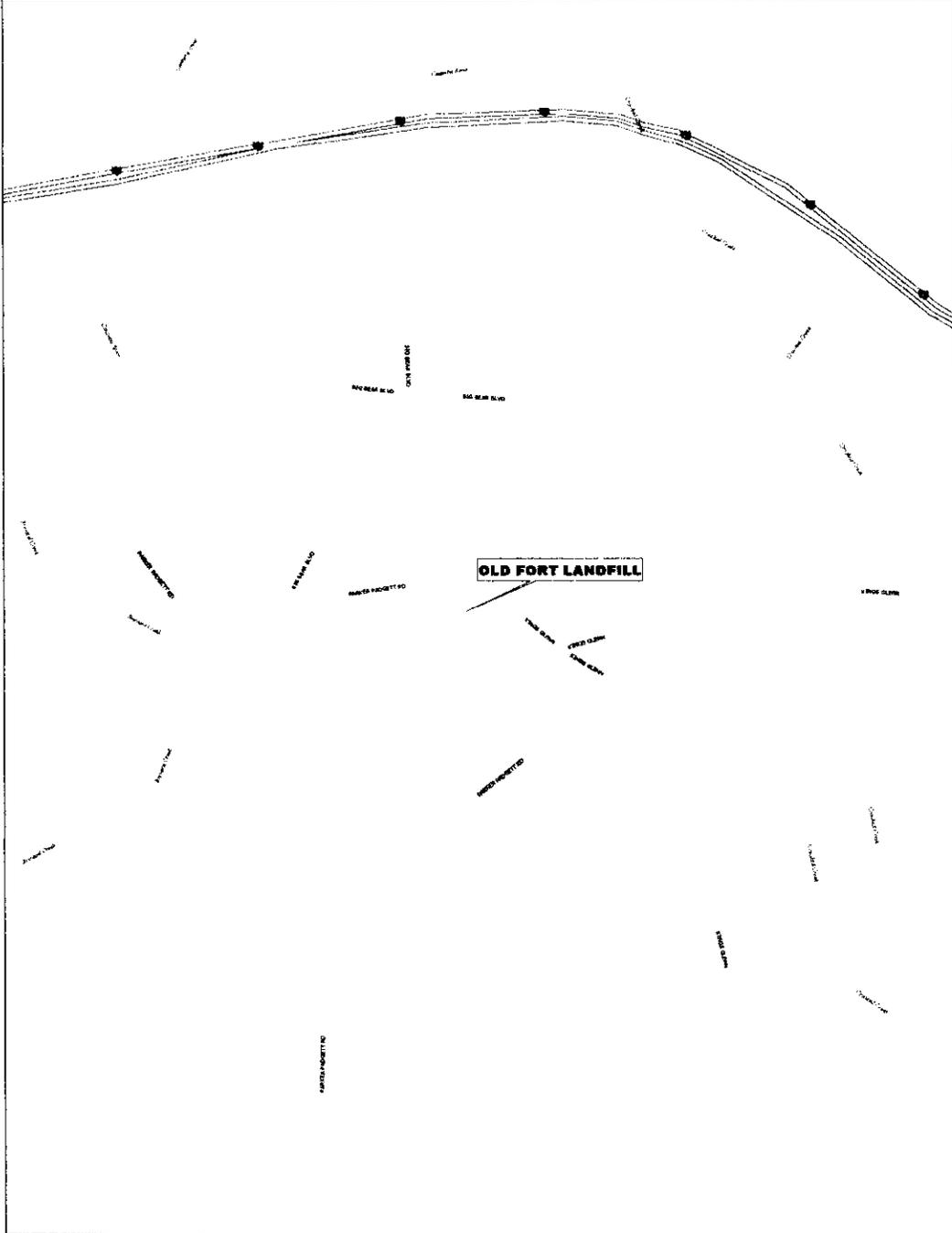
### 7.2 Long-Term Monitoring Plan

The Closure Plan and Post-Closure Plan will include maintenance and monitoring requirements for the life of the closed landfill. At a minimum, groundwater and surface water sampling plans will be addressed as well as regular Site Inspections and contingency for landfill cap repairs.



Robert J. Nowakowski, CPG  
Principal Geologist

**FIGURES**



Data use subject to license.

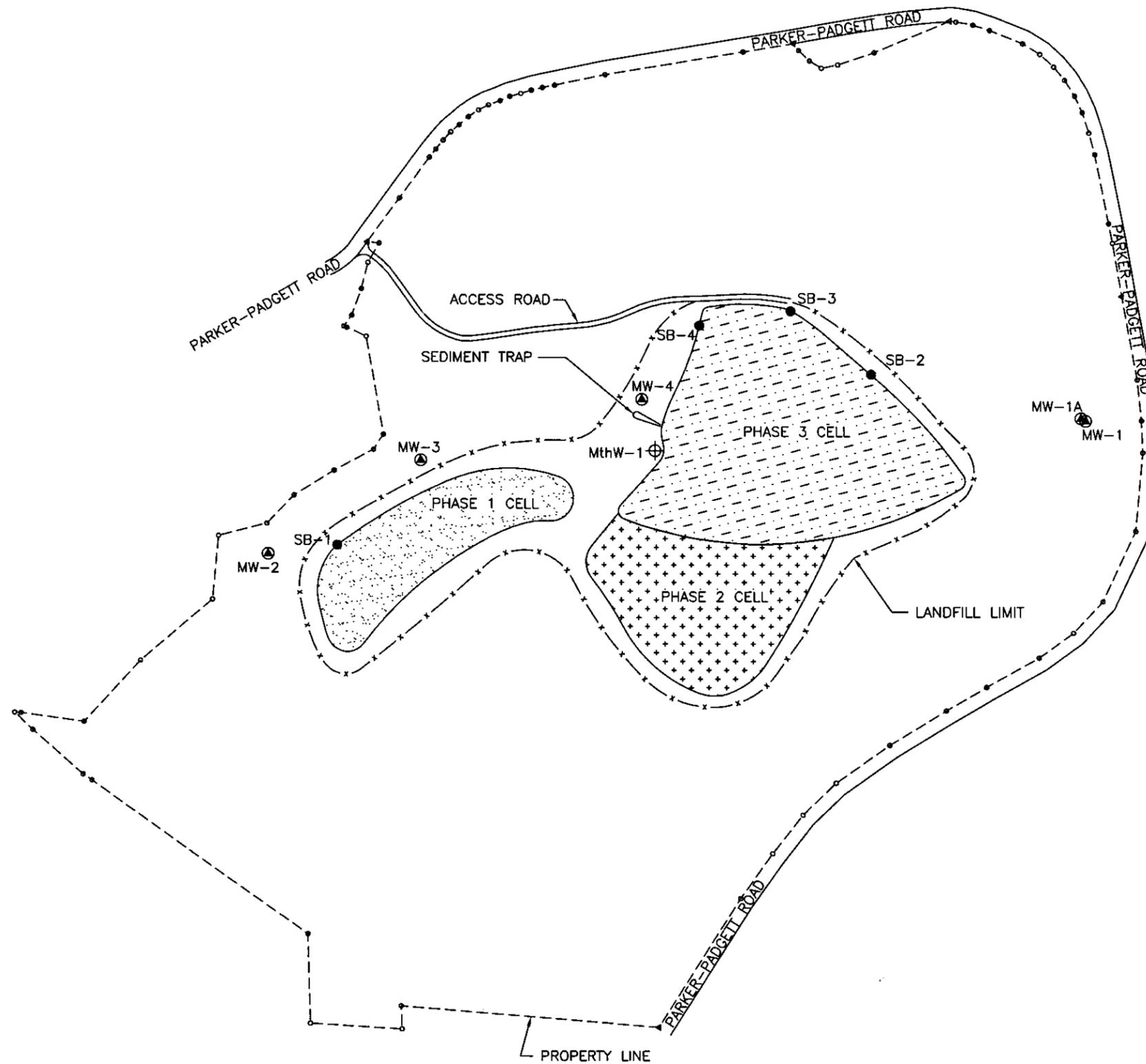
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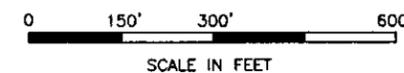
Data Zoom 15-3

**FIGURE 1 – SITE LOCATION MAP  
OLD FORT LANDFILL  
1240 PARKER-PADGETT ROAD,  
OLD FORT, NORTH CAROLINA**



LEGEND

- ⊕ - MONITOR WELL
- - SOIL BORING



SITE PLAN

FORMER C.A. LANDFILL  
 1240 PARKER-PADGETT ROAD  
 OLD FORT, NORTH CAROLINA

SCALE: 1"=300'-0"	DRAWN: 04/17/11
DRAWN BY: DSS	PROJECT: C.A. LANDFILL
<b>RJN</b>	PRJ MGR: RJN
PROJECT: # 010057.01	DRW # F2SP.DWG

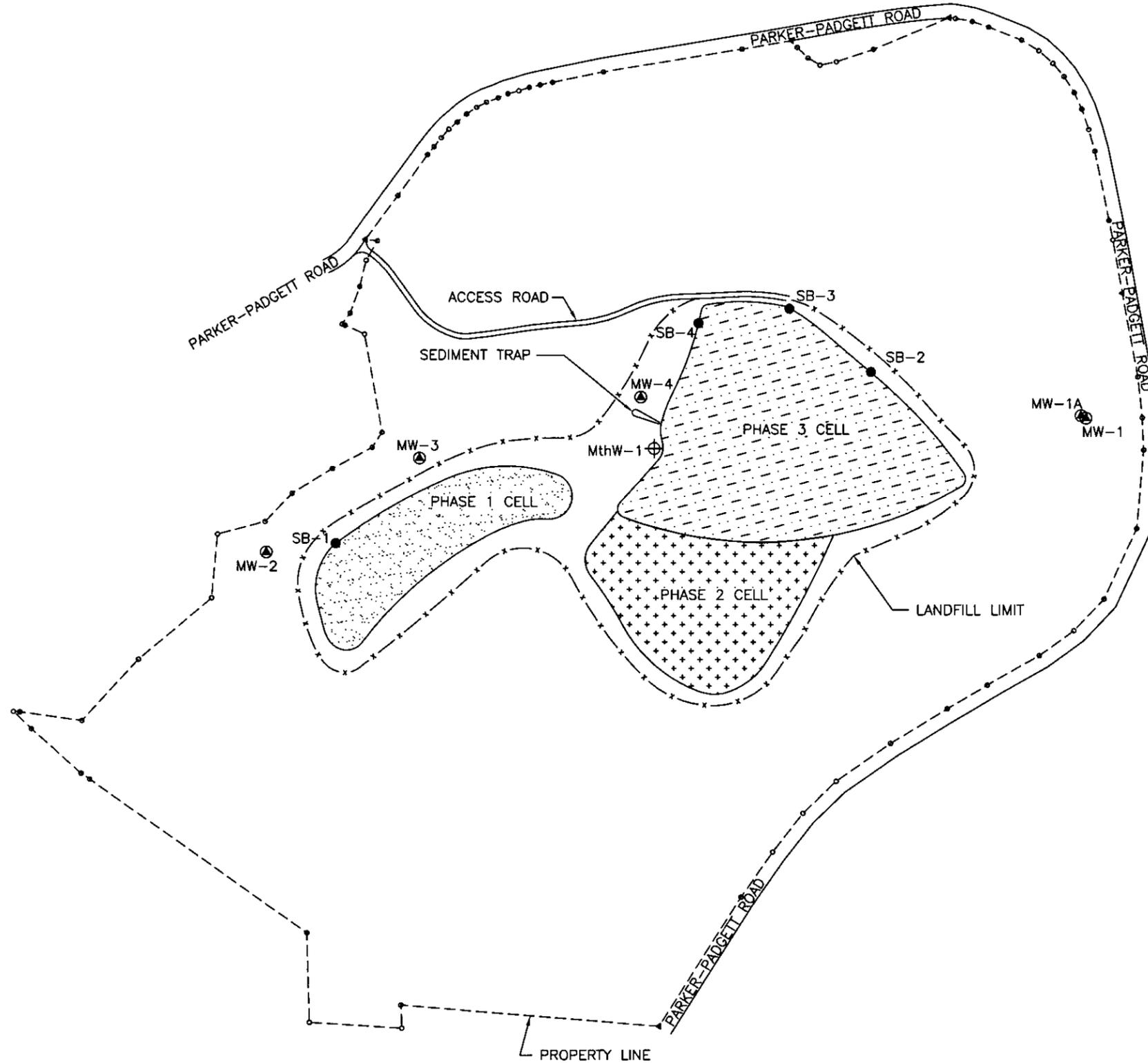
SB-1	10-12'
MERCURY	ND
ARSENIC	12
BARIUM	340
CADMIUM	ND
CHROMIUM	48
LEAD	41
SELENIUM	80
SILVER	ND
VOC's	ND
SVOCs	ND

SB-2	5-6'
MERCURY	ND
ARSENIC	16
BARIUM	440
CADMIUM	0.23
CHROMIUM	56
LEAD	39
SELENIUM	74
SILVER	ND
VOC's	ND
SVOCs	ND

SB-3	3-5'
MERCURY	0.002
ARSENIC	15
BARIUM	270
CADMIUM	ND
CHROMIUM	33
LEAD	35
SELENIUM	62
SILVER	ND
VOC's	ND
SVOCs	ND

SB-4	7-9'
MERCURY	ND
ARSENIC	13
BARIUM	460
CADMIUM	0.42
CHROMIUM	55
LEAD	43
SELENIUM	75
SILVER	ND
VOC's	ND
SVOCs	ND

RESULTS IN Mg/Kg



LEGEND

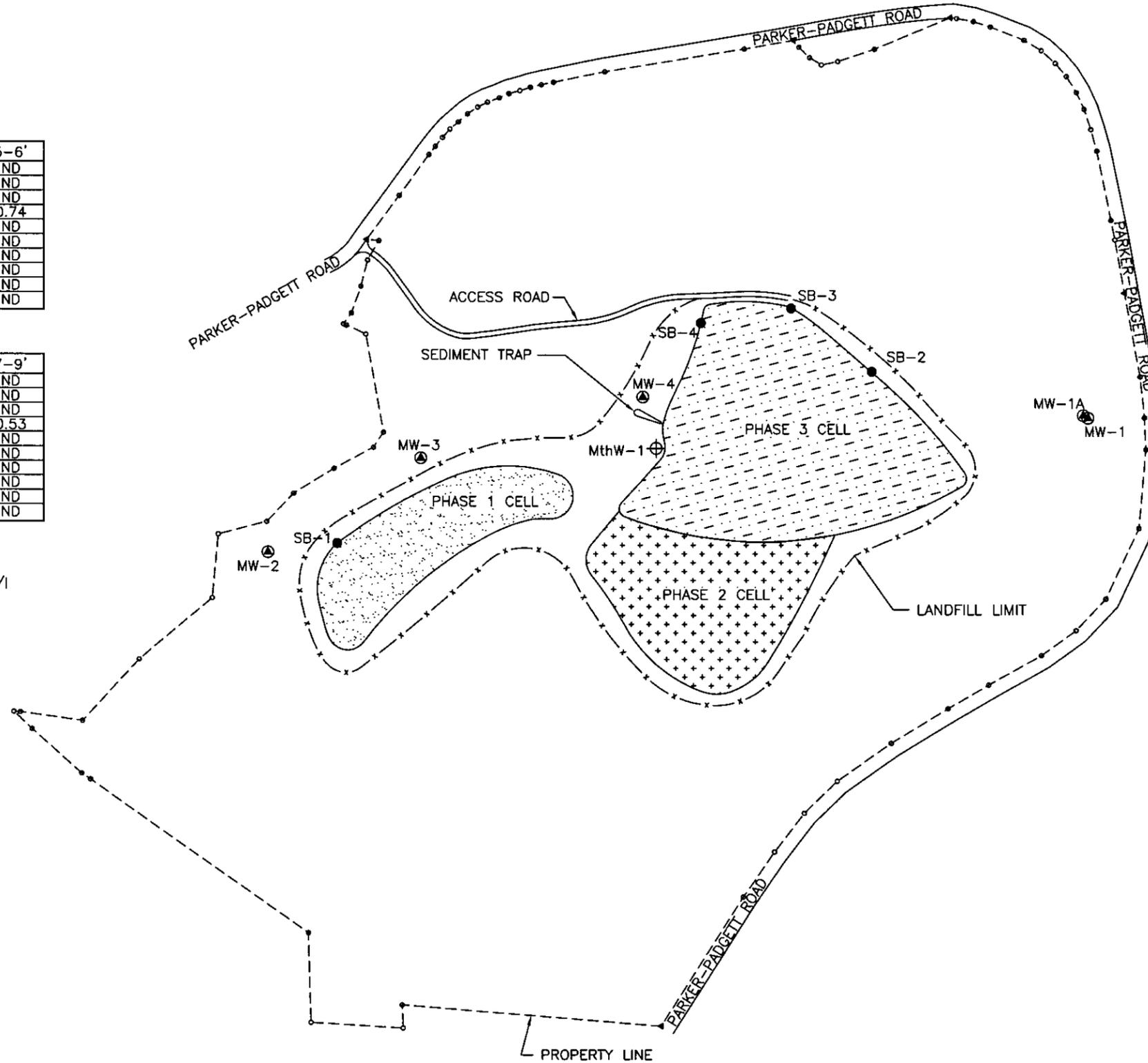
- ⊕ - MONITOR WELL
- - SOIL BORING

SOIL ANALYTICAL 12/10	
FORMER C.A. LANDFILL 1240 PARKER-PADGETT ROAD OLD FORT, NORTH CAROLINA	
SCALE: 1"=300'-0"	DRAWN: 04/17/11
DRAWN BY: DSS	PROJECT: C.A. LANDFILL
<b>RJN</b>	PRJ MGR: RJN
Enviro. & Landfill, Inc.	PROJECT: # 010057.01
	DRW # F3ASA12-10

SB-2	5-6'
TCLP PESTICIDES	ND
TCLP HERBICIDES	ND
TCLP MERCURY	ND
TCLP BARIUM	0.74
TCLP CADMIUM	ND
TCLP CHROMIUM	ND
TCLP LEAD	ND
TCLP SELENIUM	ND
TCLP SILVER	ND
TCLP VOC's	ND

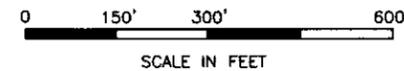
SB-4	7-9'
TCLP PESTICIDES	ND
TCLP HERBICIDES	ND
TCLP MERCURY	ND
TCLP BARIUM	0.53
TCLP CADMIUM	ND
TCLP CHROMIUM	ND
TCLP LEAD	ND
TCLP SELENIUM	ND
TCLP SILVER	ND
TCLP VOC's	ND

RESULTS IN Mg/l

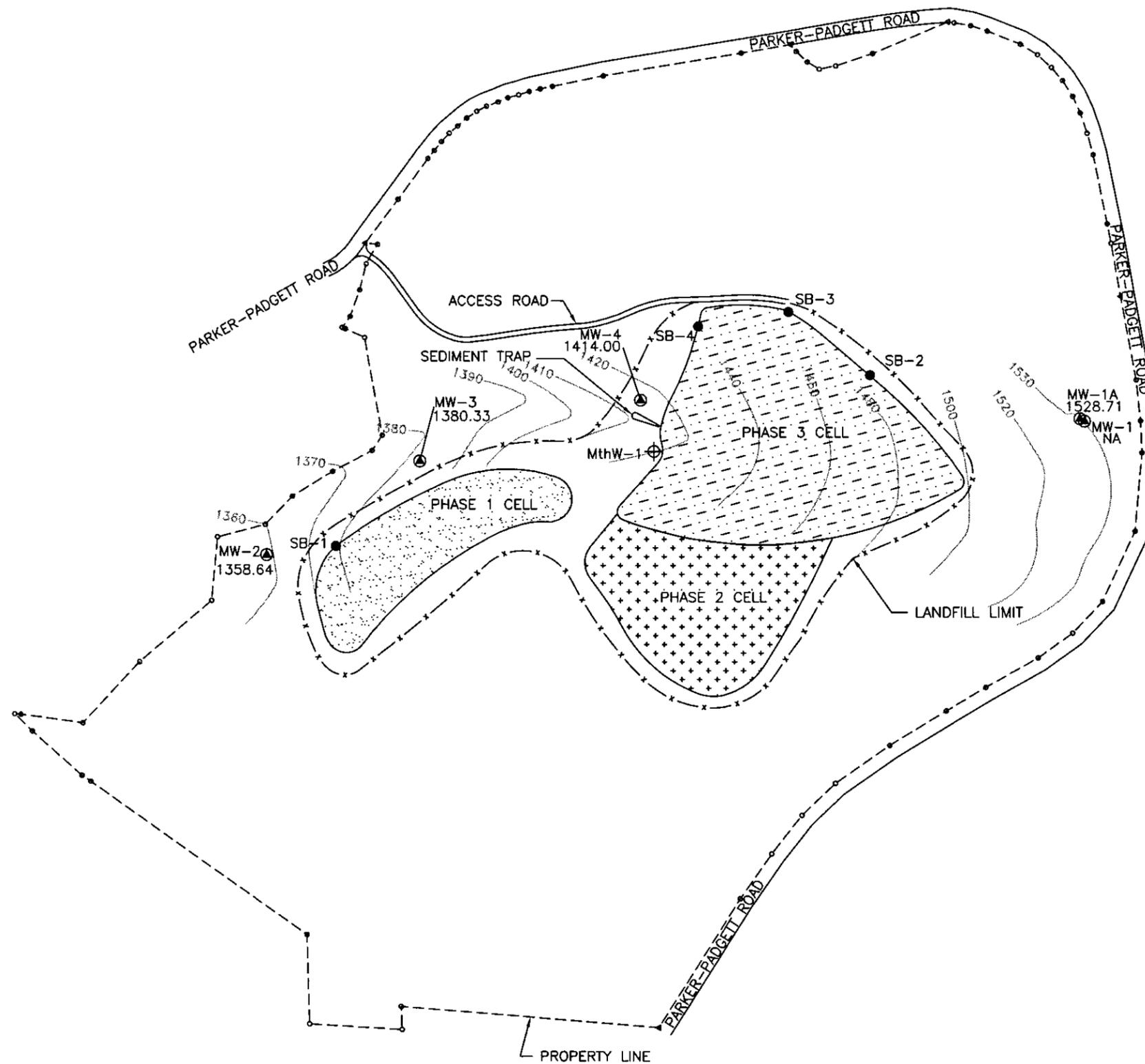


LEGEND

- ⊕ - MONITOR WELL
- - SOIL BORING



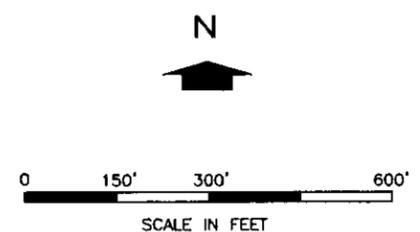
SOIL ANALYTICAL TCLP 12/10	
FORMER C.A. LANDFILL 1240 PARKER-PADGETT ROAD OLD FORT, NORTH CAROLINA	
SCALE: 1"=300'-0"	DRAWN: 04/17/11
DRAWN BY: DSS	PROJECT: C.A. LANDFILL
<b>RJN</b>	PRJ MGR: RJN
PROJECT: 010057.01	DRW: F3BTCLP12-10



**LEGEND**

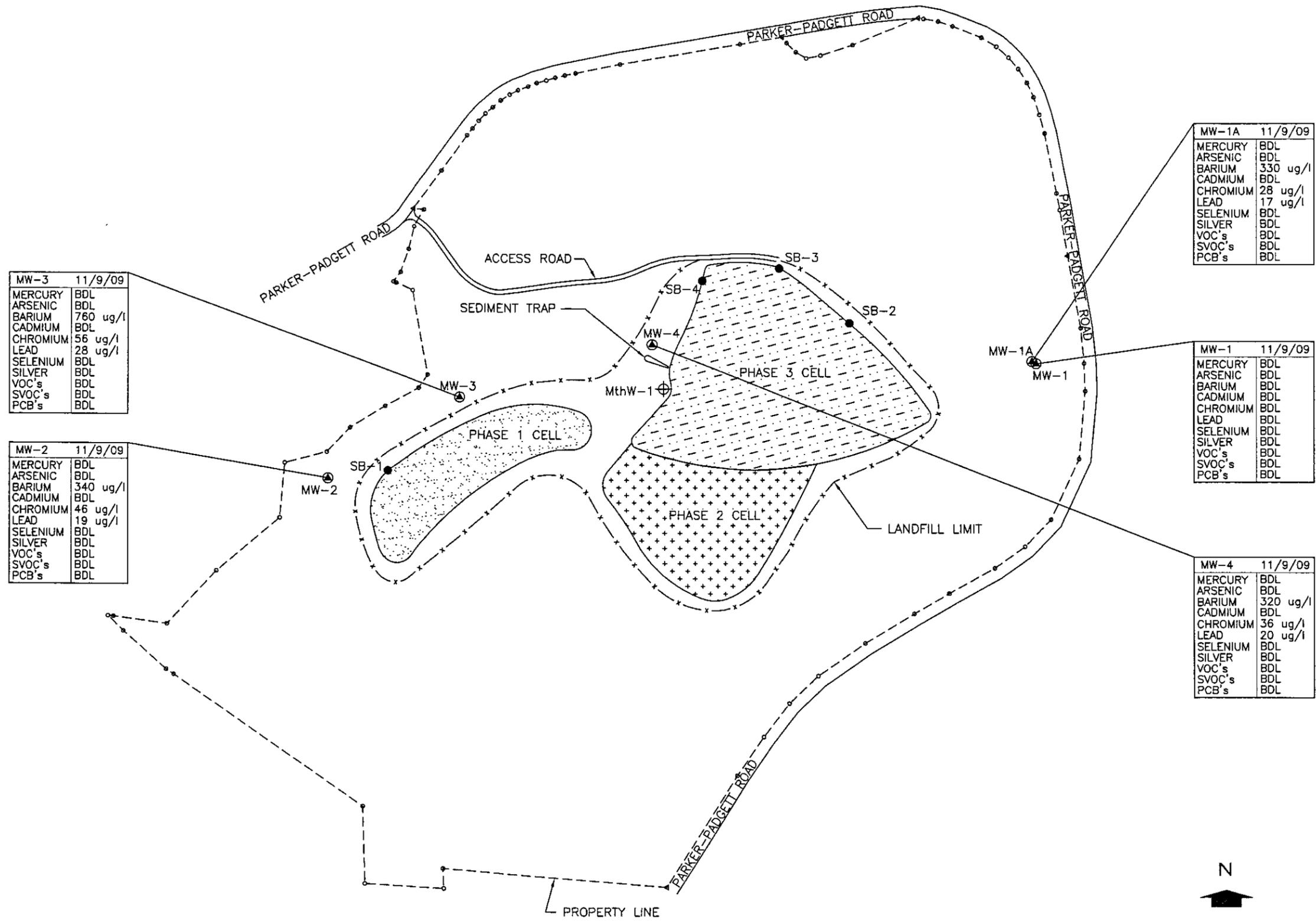
- MW-1A - MONITOR WELL LOCATION
- 1526.29 - GROUNDWATER ELEVATION
- 1520 - APPROXIMATE EQUIPOTENTIAL

GROUNDWATER FLOW DIRECTION 12/10	
<b>FORMER C.A. LANDFILL</b> 1240 PARKER-PADGETT ROAD OLD FORT, NORTH CAROLINA	
SCALE: 1"=300'-0"	DRAWN: 04/17/11
DRAWN BY: DSS	PROJECT: C.A. LANDFILL
<b>RJN</b>	PRJ MGR: RJN
	PROJECT: # 010057.01
	DRW # F4GFD12-10.DWG

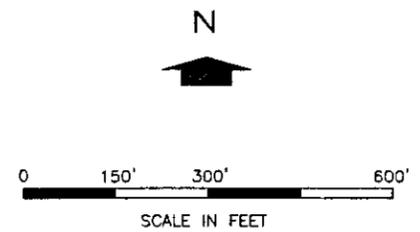


Adapted from RJN field notes. Not a legal survey.

FIGURE 5A

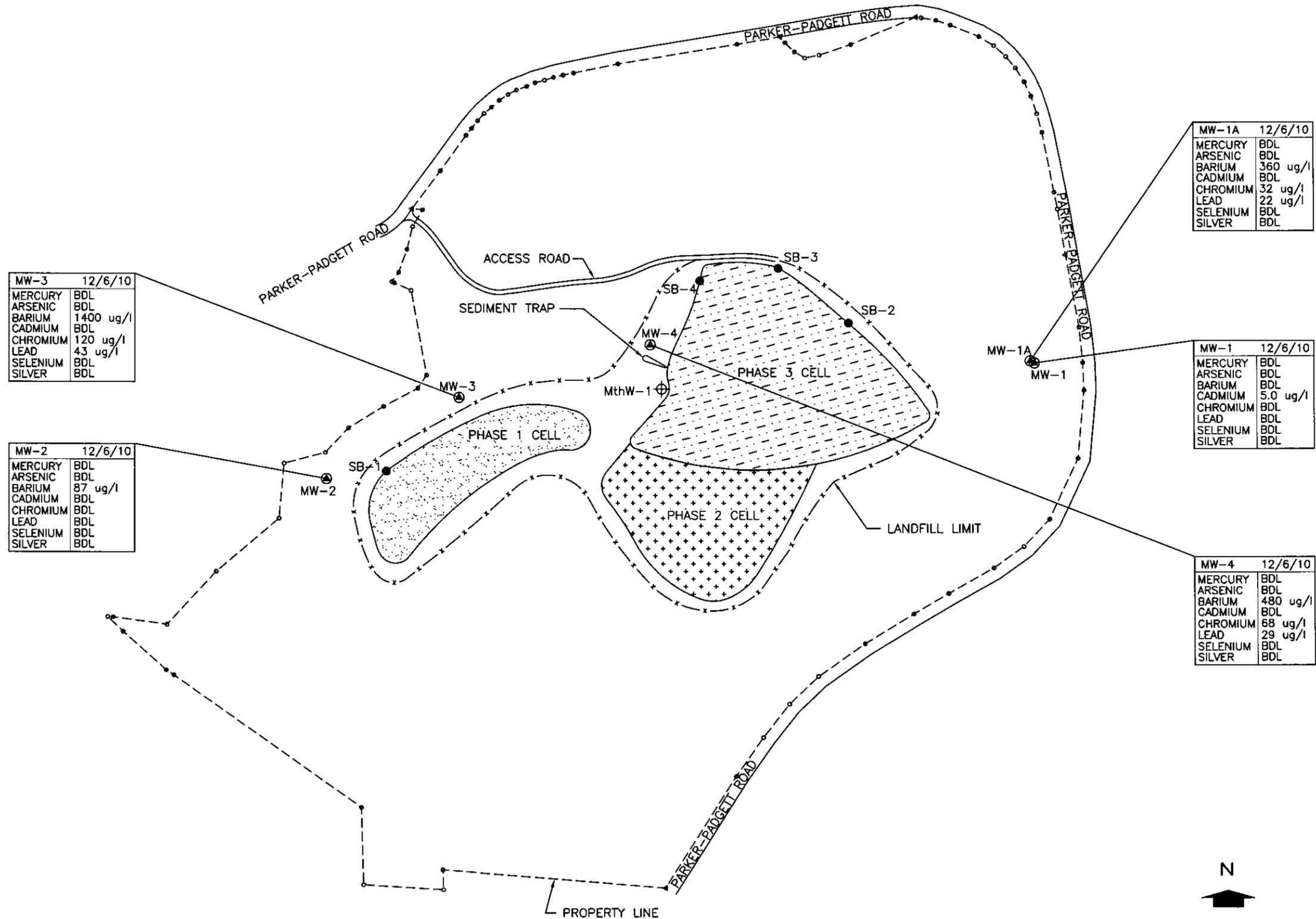


**LEGEND**  
 ⊕ - MONITOR WELL



GW ANALYTICAL 11/09	
FORMER C.A. LANDFILL 1240 PARKER-PADGETT ROAD OLD FORT, NORTH CAROLINA	
SCALE: 1"=300'-0"	DRAWN: 04/17/11
DRAWN BY: DSS	PROJECT: C.A. LANDFILL
PRJ MGR: RJN	PROJECT: # 010057.01
DRW # F5AGWA11-9	

Adapted from RJN field notes. Not a legal survey.



MW-3	12/6/10
MERCURY	BDL
ARSENIC	BDL
BARIUM	1400 ug/l
CADMIUM	BDL
CHROMIUM	120 ug/l
LEAD	43 ug/l
SELENIUM	BDL
SILVER	BDL

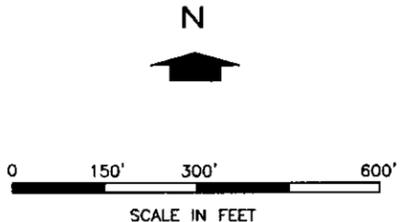
MW-2	12/6/10
MERCURY	BDL
ARSENIC	BDL
BARIUM	87 ug/l
CADMIUM	BDL
CHROMIUM	BDL
LEAD	BDL
SELENIUM	BDL
SILVER	BDL

MW-1A	12/6/10
MERCURY	BDL
ARSENIC	BDL
BARIUM	360 ug/l
CADMIUM	BDL
CHROMIUM	32 ug/l
LEAD	22 ug/l
SELENIUM	BDL
SILVER	BDL

MW-1	12/6/10
MERCURY	BDL
ARSENIC	BDL
BARIUM	BDL
CADMIUM	5.0 ug/l
CHROMIUM	BDL
LEAD	BDL
SELENIUM	BDL
SILVER	BDL

MW-4	12/6/10
MERCURY	BDL
ARSENIC	BDL
BARIUM	480 ug/l
CADMIUM	BDL
CHROMIUM	68 ug/l
LEAD	29 ug/l
SELENIUM	BDL
SILVER	BDL

LEGEND  
 ⊕ - MONITOR WELL



GW ANALYTICAL 12/10	
FORMER C.A. LANDFILL 1240 PARKER-PADGETT ROAD OLD FORT, NORTH CAROLINA	
SCALE: 1"=300'-0"	DRAWN: 04/17/11
DRAWN BY: DSS	PROJECT: C.A. LANDFILL
<b>RJN</b>	PRJ MGR: RJN
	PROJECT: # 010057.01
	DRW # F5BGW12-10

Adapted from RJN field notes. Not a legal survey.

**TABLES**

**TABLE 1 - MONITORING WELL DATA  
AND  
STATIC WATER ELEVATIONS  
(NOVEMBER 2009 SAMPLING EVENT)**

**FORMER COLLINS AND AIKMAN LANDFILL  
PERMIT #56-03  
1240 PARKER-PADGETT ROAD, OLD FORT, NORTH CAROLINA**

Well I.D.	Total Well Depth (ft-bgl)	Ground Level Elevation (ft)	Top of Casing Elevation (ft)	Screened Interval (ft)	Depth to Water TOC (ft)	Water Level Elevation (ft)	Hydraulic Gradient	Hydraulic Conductivity (cm/sec)	Total Porosity	Effective Porosity	Groundwater Flow Rate (Feet/year)
MW-1	185.00			175'-185'	56.55						
MW-1A	66.00	1578.27	1580.27	50'-65'	53.98	1526.29	0.14	4.0E-04	0.45	0.15	150.0
MW-2	23.00	1372.71	1369.96	13.5'-23.5'	10.77	1359.19					
MW-3	26.00	1395.68	1397.08	10'-25'	16.73	1380.35					
MW-4	23.00	1424.78	1427.48	8'-23'	13.33	1414.15	0.16	4.0E-04	0.48	0.15	150.0

bgl = below ground level

TOC = Top of Casing

**TABLE 2  
GROUNDWATER ELEVATION TABLE  
12/06/10 SAMPLING EVENT**

**FORMER COLLINS AND AIKMAN LANDFILL  
PERMIT #56-03  
1240 PARKER-PADGETT ROAD,  
OLD FORT, NORTH CAROLINA**

Well Number	Total Well Depth	Ground Level Elevation	Top of Casing (TOC) Elevation	Depth to Water (TOC)	Water Elevation
MW-1	185.00			55.85	
MW-1A	66.00	1578.27	1580.27	51.56	1528.71
MW-2	23.00	1372.71	1369.96	11.32	1358.64
MW-3	26.00	1395.68	1397.08	16.75	1380.33
MW-4	23.00	1424.78	1427.48	13.48	1414.00

**All Measurements in feet**

**TABLE 3**  
**HISTORICAL GROUNDWATER RESULTS**  
**FORMER COLLINS AND AIKMAN LANDFILL**  
**PERMIT #56-03**  
**1240 PARKER-PADGETT ROAD, OLD FORT, NORTH CAROLINA**

WELL	DATE	Mercury	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	VOCs	PCBs	SVOCs	pH	Conductivity	Field Temperature	Dissolved Oxygen	Turbidity	Biological Oxygen Demand (BOD)	Chemical Oxygen Demand (COD)	Total Organic Carbon (TOC)	Total Organic Halides (TOX)	
UNITS		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	Standard	cm	Deg C	mg/l	ntu	mg/l	mg/l	mg/l	mg/l	
NCClass GA Criteria		1	10	700	2	10	15	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MW-1 upgradient	2/10/1989	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.60	52.00	11.90	NA	NA	<2	<5	1.50	11.00	
	4/30/1990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.20	54.40	NA	NA	NA	2.10	18.70	1.20	32.00	
	1/5/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.60	80.00	14.00	NA	NA	BDL	BDL	2.40	0.01	
	5/11/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.80	60.00	17.00	NA	NA	BDL	BDL	1.20	0.12	
	11/17/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.80	60.00	14.00	NA	NA	BDL	6.70	2.10	BDL	
	5/12/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.30	55.00	17.00	NA	NA	BDL	BDL	2.00	BDL	
	11/10/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.10	59.00	18.00	NA	NA	BDL	9.80	2.10	12.00	
	5/11/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.20	60.00	20.00	NA	NA	BDL	BDL	2.50	0.01
	11/15/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.50	42.00	15.00	NA	NA	BDL	BDL	3.00	BDL
	5/13/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.90	56.00	15.00	NA	NA	BDL	BDL	0.88	BDL
	4/28/2008	<2	6.40	436.00	<1	24.20	24.60	<10	<5	NA	NA	NA	NA	5.60	15.00	15.00	NA	NA	NA	NA	NA	NA
	4/28/2009	<2	14.00	815.00	<1	77.80	32.50	<10	<5	NA	NA	NA	NA	6.06	17.00	15.30	NA	NA	NA	NA	NA	NA
	11/9/2009	<2	<20	<5	<5	<10	<5	<20	<10	BDL	BDL	BDL	5.84	57.00	14.10	5.78	15.00	NA	NA	NA	NA	
	10/25/2010	<2	<5	228.00	<5	20.10	11.70	<10	<5	NA	NA	NA	NA	5.80	20.00	14.60	NA	NA	NA	NA	NA	NA
12/6/2010	<2	<20	5.00	<5	<10	<5	<20	<10	NA	NA	NA	NA	6.42	65.00	12.80	13.91	0.00	NA	NA	NA	NA	
MW-1A upgradient	5/15/1997	NA	<5	67.00	<1	4.00	<5	<5	<5	BDL	NA	NA	6.70	30.00	14.00	NA	NA	NA	NA	NA	NA	
	4/21/1998	BDL	BDL	3700.00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.60	15.00	16.00	NA	NA	NA	NA	NA	NA	
	10/5/1998	BDL	BDL	2200.00	10.00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.70	BDL	13.00	NA	NA	NA	NA	NA	NA	
	4/22/1999	BDL	BDL	690.00	1.30	64.00	26.00	BDL	BDL	BDL	BDL	BDL	5.40	19.00	14.00	NA	NA	NA	NA	NA	NA	
	4/17/2000	BDL	BDL	270.00	3.60	26.00	BDL	BDL	BDL	BDL	BDL	BDL	5.00	10.00	12.00	NA	NA	NA	NA	NA	NA	
	10/19/2000	BDL	BDL	4600.00	2.10	12.00	47.00	BDL	BDL	BDL	BDL	BDL	4.40	10.00	14.00	NA	NA	NA	NA	NA	NA	
	4/17/2001	BDL	52.00	7500.00	130.00	720.00	280.00	BDL	BDL	BDL	BDL	BDL	5.40	10.00	13.00	NA	NA	NA	NA	NA	NA	
	10/1/2002	BDL	9.60	2000.00	17.00	180.00	55.00	BDL	BDL	BDL	BDL	BDL	4.91	12.00	15.00	NA	NA	NA	NA	NA	NA	
	4/7/2003	BDL	25.00	3100.00	30.00	250.00	82.00	BDL	BDL	BDL	BDL	BDL	6.03	15.00	13.10	NA	NA	NA	NA	NA	NA	
	10/13/2003	BDL	18.00	1900.00	BDL	180.00	100.00	BDL	BDL	BDL	BDL	BDL	5.06	12.00	14.30	NA	NA	NA	NA	NA	NA	
	4/21/2004	BDL	12.00	1500.00	3.00	86.00	62.00	BDL	BDL	BDL	BDL	BDL	5.22	10.00	15.00	NA	NA	NA	NA	NA	NA	
	10/27/2004	BDL	BDL	1500.00	BDL	76.00	52.00	BDL	BDL	BDL	BDL	BDL	6.59	30.00	14.50	NA	NA	NA	NA	NA	NA	
	4/20/2005	BDL	BDL	1000.00	BDL	7.70	26.00	BDL	BDL	BDL	BDL	BDL	6.51	15.00	14.50	NA	NA	NA	NA	NA	NA	
	11/4/2005	BDL	11.00	2200.00	BDL	210.00	100.00	24.00	BDL	BDL	BDL	BDL	8.83	14.95	14.50	NA	NA	NA	NA	NA	NA	
	10/11/2006	<2	42.00	2000.00	12.00	140.00	140.00	<10	<5	NA	NA	NA	NA	5.87	16.00	14.60	NA	NA	NA	NA	NA	
	4/17/2007	<2	<5	220.00	<1	15.00	13.00	<10	<5	NA	NA	NA	NA	5.93	22.00	14.90	NA	NA	NA	NA	NA	NA
	10/25/2007	<2	34.60	1700.00	<1	92.00	87.50	51.40	<5	NA	NA	NA	NA	5.53	18.00	14.80	NA	NA	NA	NA	NA	NA
10/16/2008	<2	17.70	1420.00	<1	130.00	74.50	<10	<5	NA	NA	NA	NA	5.58	18.50	14.70	NA	NA	NA	NA	NA	NA	
11/9/2009	<2	<20	330.00	<5	28.00	17.00	<20	<10	BDL	BDL	BDL	5.26	9.00	14.00	5.13	46.00	NA	NA	NA	NA		
12/6/2010	<2	<20	360.00	<5	32.00	22.00	<20	<10	NA	NA	NA	NA	5.48	0.75	12.70	13.04	396.00	NA	NA	NA	NA	

Turbidity measured in nephelometric turbidity units (ntu)  
Mercury by USEPA Method 7470A  
Other metals by USEPA Method 6010B  
VOCs by USEPA Method 8260  
PCBs by USEPA Method 8082  
SVOCs by USEPA Method 8270  
Holding times were met on all samples  
NA = Not analyzed

**TABLE 3**  
**HISTORICAL GROUNDWATER RESULTS**  
**FORMER COLLINS AND AIKMAN LANDFILL**  
**PERMIT #56-03**  
**1240 PARKER-PADGETT ROAD, OLD FORT, NORTH CAROLINA**

WELL	DATE	Mercury	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	VOCs	PCBs	SVOCs	pH	Conductivity	Field Temperature	Dissolved Oxygen	Turbidity	Biological Oxygen Demand (BOD)	Chemical Oxygen Demand (COD)	Total Organic Carbon (TOC)	Total Organic Halides (TOX)
UNITS		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	Standard	umhos/cm	Deg C	mg/l	ntu	mg/l	mg/l	mg/l	mg/l
NCClass GA Criteria		1	10	700	2	10	15	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	2/10/1989	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.00	44.00	13.00	NA	NA	<2	65.00	26.00	5.30
downgradient	4/30/1990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.40	42.80	NA	NA	NA	2.40	ND	0.70	12.00
	1/5/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.20	50.00	14.00	NA	NA	BDL	BDL	1.20	0.01
	5/11/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.80	68.00	14.00	NA	NA	BDL	5.70	1.00	0.05
	11/17/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.90	69.00	14.00	NA	NA	BDL	13.00	1.30	BDL
	5/12/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.50	70.00	16.00	NA	NA	BDL	5.30	0.81	BDL
	11/10/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.30	75.00	16.00	NA	NA	BDL	7.70	1.90	BDL
	5/11/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.10	79.00	16.00	NA	NA	BDL	BDL	2.50	0.06
	11/15/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.70	68.00	15.00	NA	NA	BDL	BDL	3.10	BDL
	5/13/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.10	78.00	14.00	NA	NA	BDL	BDL	0.88	BDL
	5/15/1997	NA	<5	38.00	<1	<2	<5	<5	<5	BDL	NA	NA	6.60	90.00	15.00	NA	NA	NA	NA	NA	NA
	4/21/1998	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	5.60	75.00	15.00	NA	NA	NA	NA	NA	NA
	10/5/1998	BDL	BDL	330.00	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	6.50	76.00	13.00	NA	NA	NA	NA	NA	NA
	4/22/1999	BDL	BDL	200.00	1.30	16.00	5.60	BDL	BDL	NA	NA	NA	6.70	90.00	14.00	NA	NA	NA	NA	NA	NA
	4/17/2000	BDL	BDL	60.00	1.90	BDL	BDL	BDL	BDL	13.00	NA	NA	6.10	80.00	13.00	NA	NA	NA	NA	NA	NA
	10/19/2000	BDL	BDL	58.00	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	5.20	75.00	13.00	NA	NA	NA	NA	NA	NA
	11/8/2000	BDL	BDL	67.00	1.20	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/17/2001	BDL	BDL	120.00	4.30	8.20	BDL	BDL	BDL	NA	NA	NA	5.70	92.00	13.00	NA	NA	NA	NA	NA	NA
	10/1/2002	BDL	BDL	82.00	1.30	BDL	BDL	BDL	BDL	NA	NA	NA	6.09	195.00	14.30	NA	NA	NA	NA	NA	NA
	4/7/2003	BDL	BDL	56.00	1.10	BDL	BDL	BDL	BDL	NA	NA	NA	5.57	91.00	13.00	NA	NA	NA	NA	NA	NA
	10/13/2003	BDL	BDL	58.00	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	6.40	112.00	13.60	NA	NA	NA	NA	NA	NA
	4/21/2004	BDL	BDL	44.00	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	5.97	80.00	14.00	NA	NA	NA	NA	NA	NA
	10/27/2004	BDL	BDL	47.00	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	5.99	89.00	14.00	NA	NA	NA	NA	NA	NA
	4/20/2005	BDL	BDL	50.00	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	5.81	101.00	14.00	NA	NA	NA	NA	NA	NA
	11/4/2005	BDL	BDL	44.00	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	6.16	119.60	13.90	NA	NA	NA	NA	NA	NA
	10/11/2006	<2	<5	48.00	<1	<5	<5	<10	<5	NA	NA	NA	6.07	116.00	13.90	NA	NA	NA	NA	NA	NA
	4/17/2007	<2	<5	36.00	<1	<5	<5	<10	<5	NA	NA	NA	6.28	113.00	13.80	NA	NA	NA	NA	NA	NA
	10/25/2007	<2	<5	41.20	<1	<5	<5	<10	<5	NA	NA	NA	6.25	109.00	14.00	NA	NA	NA	NA	NA	NA
	4/28/2008	<2	<5	61.20	<1	<5	<5	<10	<5	NA	NA	NA	6.02	139.00	14.90	NA	NA	NA	NA	NA	NA
	10/16/2008	<2	<5	45.70	<1	<5	<5	<10	<5	NA	NA	NA	5.96	145.00	13.60	NA	NA	NA	NA	NA	NA
	4/28/2009	<2	<5	44.70	<1	<5	<5	<10	<5	NA	NA	NA	6.27	98.00	14.30	NA	NA	NA	NA	NA	NA
	11/9/2009	<2	<5	340.00	<1	46.00	19.00	<10	<5	BDL	BDL	BDL	6.10	75.00	14.00	4.14	999+	NA	NA	NA	NA
	10/25/2010	<2	<5	80.70	<5	<5	<5	<10	<5	NA	NA	NA	6.11	145.00	14.10	NA	NA	NA	NA	NA	NA
	12/6/2010	<2	<5	87.00	<5	<10	<5	<20	<10	NA	NA	NA	6.36	112.00	12.20	15.35	58.00	NA	NA	NA	NA

Turbidity measured in nephelometric turbidity units (ntu)

Mercury by USEPA Method 7470A

Other metals by USEPA Method 6010B

VOCs by USEPA Method 8260

PCBs by USEPA Method 8082

SVOCs by USEPA Method 8270

Holding times were met on all samples

NA = Not analyzed

**TABLE 3  
HISTORICAL GROUNDWATER RESULTS  
FORMER COLLINS AND AIKMAN LANDFILL  
PERMIT #56-03  
1240 PARKER-PADGETT ROAD, OLD FORT, NORTH CAROLINA**

WELL	DATE	Mercury	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	VOCs	PCBs	SVOCs	pH	Conductivity	Field Temperature	Dissolved Oxygen	Turbidity	Biological Oxygen Demand (BOD)	Chemical Oxygen Demand (COD)	Total Organic Carbon (TOC)	Total Organic Halides (TOX)
UNITS		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	Standard	umhos/cm	Deg C	mg/l	ntu	mg/l	mg/l	mg/l	mg/l
NCClass GA Criteria		1	10	700	2	10	15	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	5/15/1997	NA	<5	89.00	<1	<2	<5	<5	<5	BDL	NA	NA	5.80	100.00	16.00	NA	NA	NA	NA	NA	NA
downgradient	4/21/1998	BDL	BDL	60.00	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	5.30	68.00	14.00	NA	NA	NA	NA	NA	NA
	10/5/1998	BDL	BDL	2900.00	BDL	100.00	BDL	BDL	BDL	NA	NA	NA	5.60	80.00	13.00	NA	NA	NA	NA	NA	NA
	4/22/1999	BDL	BDL	1500.00	BDL	130.00	55.00	BDL	BDL	NA	NA	NA	5.90	90.00	14.00	NA	NA	NA	NA	NA	NA
	4/17/2000	BDL	BDL	1000.00	6.90	76.00	29.00	BDL	BDL	NA	NA	NA	5.60	70.00	14.00	NA	NA	NA	NA	NA	NA
	10/19/2000	BDL	BDL	550.00	BDL	5.60	BDL	BDL	BDL	NA	NA	NA	4.90	52.00	13.00	NA	NA	NA	NA	NA	NA
	4/17/2001	BDL	12.00	5300.00	53.00	420.00	170.00	BDL	BDL	NA	NA	NA	5.60	60.00	13.00	NA	NA	NA	NA	NA	NA
	10/1/2002	BDL	BDL	3800.00	17.00	230.00	77.00	BDL	BDL	NA	NA	NA	5.40	140.00	14.30	NA	NA	NA	NA	NA	NA
	4/7/2003	BDL	BDL	390.00	2.10	7.50	BDL	BDL	BDL	NA	NA	NA	5.13	60.00	13.50	NA	NA	NA	NA	NA	NA
	10/13/2003	BDL	12.00	4200.00	BDL	330.00	160.00	BDL	BDL	NA	NA	NA	5.55	71.00	15.20	NA	NA	NA	NA	NA	NA
	4/21/2004	BDL	7.50	680.00	BDL	52.00	26.00	BDL	BDL	NA	NA	NA	5.41	65.00	14.70	NA	NA	NA	NA	NA	NA
	10/27/2004	BDL	BDL	920.00	BDL	35.00	22.00	BDL	BDL	NA	NA	NA	6.03	70.00	13.80	NA	NA	NA	NA	NA	NA
	4/20/2005	BDL	7.30	4000.00	BDL	140.00	80.00	BDL	BDL	NA	NA	NA	5.38	72.00	14.10	NA	NA	NA	NA	NA	NA
	11/4/2005	BDL	BDL	10000.00	BDL	360.00	160.00	25.00	BDL	NA	NA	NA	5.94	109.60	14.30	NA	NA	NA	NA	NA	NA
	10/11/2006	<2	<5	170.00	<1	5.60	<5	<10	<5	NA	NA	NA	5.54	110.00	14.50	NA	NA	NA	NA	NA	NA
	4/17/2007	<2	<5	100.00	<1	<5	<5	<10	<5	NA	NA	NA	5.79	106.00	13.70	NA	NA	NA	NA	NA	NA
	10/25/2007	<2	<5	185.00	<1	5.50	<5	<10	<5	NA	NA	NA	5.61	103.00	14.20	NA	NA	NA	NA	NA	NA
	4/28/2008	<2	<5	221.00	<1	7.70	<5	<10	<5	NA	NA	NA	5.64	96.00	13.60	NA	NA	NA	NA	NA	NA
	10/16/2008	<2	<5	116.00	<1	<5	<5	<10	<5	NA	NA	NA	5.30	92.10	14.00	NA	NA	NA	NA	NA	NA
	4/28/2009	<2	<5	238.00	<1	12.80	<5	<10	<5	NA	NA	NA	5.79	82.00	14.30	NA	NA	NA	NA	NA	NA
	11/9/2009	<2	<5	760.00	<1	56.00	28.00	<10	<5	BDL	BDL	BDL	5.86	12.00	13.10	5.17	999+	NA	NA	NA	NA
	10/25/2010	<2	<5	255.00	<5	17.80	6.70	<10	<5	NA	NA	NA	5.69	93.00	13.90	NA	NA	NA	NA	NA	NA
	12/6/2010	<.2	<20	1400.00	<5	120.00	43.00	<20	<10	NA	NA	NA	5.77	70.00	11.90	15.73	6.00	NA	NA	NA	NA

Turbidity measured in nephelometric turbidity units (ntu)

Mercury by USEPA Method 7470A

Other metals by USEPA Method 6010B

VOCs by USEPA Method 8260

PCBs by USEPA Method 8082

SVOCs by USEPA Method 8270

Holding times were met on all samples

NA = Not analyzed

**TABLE 3  
HISTORICAL GROUNDWATER RESULTS  
FORMER COLLINS AND AIKMAN LANDFILL  
PERMIT #56-03  
1240 PARKER-PADGETT ROAD, OLD FORT, NORTH CAROLINA**

WELL	DATE	Mercury	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	VOCs	PCBs	SVOCs	pH	Conductivity	Field Temperature	Dissolved Oxygen	Turbidity	Biological Oxygen Demand (BOD)	Chemical Oxygen Demand (COD)	Total Organic Carbon (TOC)	Total Organic Halides (TOX)
UNITS		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	Standard	umhos/cm	Deg C	mg/l	ntu	mg/l	mg/l	mg/l	mg/l
NCClass GA Criteria		1	10	700	2	10	15	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	5/15/1997	NA	<5	66.00	<1	<2	<5	<5	<5	BDL	NA	NA	5.50	30.00	14.00	NA	NA	NA	NA	NA	NA
downgradient	4/21/1998	BDL	BDL	220.00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.20	22.00	14.00	NA	NA	NA	NA	NA	NA
	4/22/1999	BDL	BDL	650.00	BDL	96.00	39.00	BDL	BDL	BDL	BDL	BDL	5.50	32.00	14.00	NA	NA	NA	NA	NA	NA
	4/17/2000	BDL	BDL	240.00	1.90	16.00	BDL	BDL	BDL	BDL	BDL	BDL	5.10	25.00	14.00	NA	NA	NA	NA	NA	NA
	10/19/2000	BDL	1.30	3100.00	1.20	18.00	29.00	BDL	BDL	BDL	BDL	BDL	4.10	23.00	14.00	NA	NA	NA	NA	NA	NA
	4/17/2001	BDL	10.00	2300.00	23.00	150.00	61.00	BDL	BDL	BDL	BDL	BDL	4.20	28.00	12.00	NA	NA	NA	NA	NA	NA
	10/1/2002	BDL	9.60	2200.00	3.10	40.00	20.00	BDL	BDL	BDL	BDL	BDL	4.91	55.00	16.50	NA	NA	NA	NA	NA	NA
	4/7/2003	BDL	13.00	2200.00	27.00	230.00	90.00	BDL	BDL	BDL	BDL	BDL	4.89	25.00	13.50	NA	NA	NA	NA	NA	NA
	10/13/2003	BDL	26.00	2100.00	BDL	360.00	170.00	BDL	BDL	BDL	BDL	BDL	4.51	29.00	16.40	NA	NA	NA	NA	NA	NA
	4/21/2004	BDL	5.20	400.00	2.80	62.00	38.00	BDL	BDL	BDL	BDL	BDL	4.71	22.00	14.40	NA	NA	NA	NA	NA	NA
	10/27/2004	BDL	BDL	260.00	BDL	23.00	15.00	BDL	BDL	BDL	BDL	BDL	5.66	25.00	15.10	NA	NA	NA	NA	NA	NA
	4/20/2005	BDL	BDL	330.00	BDL	28.00	18.00	BDL	BDL	BDL	BDL	BDL	5.27	22.00	14.10	NA	NA	NA	NA	NA	NA
	11/4/2005	BDL	9.80	1900.00	BDL	110.00	76.00	14.00	BDL	BDL	BDL	BDL	5.89	29.00	16.00	NA	NA	NA	NA	NA	NA
	10/11/2006	<2	<5	150.00	<1	16.00	11.00	<10	<5	NA	NA	NA	4.77	43.00	15.60	NA	NA	NA	NA	NA	NA
	4/17/2007	<2	<5	61.00	<1	<2	<5	<10	<5	NA	NA	NA	5.19	51.00	13.90	NA	NA	NA	NA	NA	NA
	10/25/2007	<2	<5	108.00	<1	<2	5.50	<10	<5	NA	NA	NA	4.75	46.00	16.00	NA	NA	NA	NA	NA	NA
	4/28/2008	<2	<5	124.00	<1	6.30	<5	<10	<5	NA	NA	NA	5.21	49.00	14.00	NA	NA	NA	NA	NA	NA
	10/16/2008	<2	<5	134.00	<1	7.90	<5	<10	<5	NA	NA	NA	4.96	61.00	15.60	NA	NA	NA	NA	NA	NA
	4/28/2009	<2	<5	91.20	<1	<5	<5	<10	<5	NA	NA	NA	5.22	46.00	13.90	NA	NA	NA	NA	NA	NA
	11/9/2009	<2	<5	320.00	<1	36.00	20.00	<10	<5	BDL	BDL	BDL	5.81	36.00	14.40	7.03	999+	NA	NA	NA	NA
	10/25/2010	<2	<5	47.80	<5	<5	<5	<10	<5	NA	NA	NA	5.11	35.00	15.80	NA	NA	NA	NA	NA	NA
	12/6/2010	<.2	<20	480.00	<5	68.00	29.00	<20	<10	NA	NA	NA	5.21	35.00	12.50	14.36	630.00	NA	NA	NA	NA

Turbidity measured in nephelometric turbidity units (ntu)

Mercury by USEPA Method 7470A

Other metals by USEPA Method 6010B

VOCs by USEPA Method 8260

PCBs by USEPA Method 8082

SVOCs by USEPA Method 8270

Holding times were met on all samples

NA = Not analyzed

**TABLE 3  
HISTORICAL GROUNDWATER RESULTS  
FORMER COLLINS AND AIKMAN LANDFILL  
PERMIT #56-03  
1240 PARKER-PADGETT ROAD, OLD FORT, NORTH CAROLINA**

WELL	DATE	Mercury	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	VOCs	PCBs	SVOCs	Field pH	Field Conductivity	Field Temperature	Field Dissolved Oxygen	Field Turbidity	Biological Oxygen Demand (BOD)	Chemical Oxygen Demand (COD)	Total Organic Carbon (TOC)	
UNITS		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	Standard	umhos/cm	Deg C	mg/l	ntu	mg/l	mg/l	mg/l	
NCClass GA Criteria		1	10	700	2	10	15	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SW-1 upstream	1/24/1989	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.20	25.00	5.50	NA	NA	<2	<5	1.80	<5
	11/10/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.10	30.00	14.00	NA	NA	BDL	5.60	2.80	BDL
	5/11/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.80	32.00	18.00	NA	NA	BDL	BDL	2.80	0.01
	11/15/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.40	21.00	9.00	NA	NA	BDL	BDL	3.60	BDL
	5/13/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.10	25.00	14.00	NA	NA	BDL	BDL	1.50	BDL
	5/14/1997	NA	<5	14.00	<1	<2	<5	<5	<5	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/21/1998	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	6.80	29.00	14.00	NA	NA	NA	NA	NA	NA
	10/11/2006	<2	<5	20.00	<1	<5	<5	<10	<5	NA	NA	NA	6.96	49.00	15.30	NA	NA	NA	NA	NA	NA
	4/17/2007	<2	<5	10.00	<1	<5	<5	<10	<5	NA	NA	NA	6.50	43.00	12.10	NA	NA	NA	NA	NA	NA
	10/25/2007	<2	<5	16.60	<1	<5	<5	<10	<5	NA	NA	NA	6.71	58.00	15.90	NA	NA	NA	NA	NA	NA
4/28/2008	<2	<5	20.10	<1	<5	<5	<10	<5	NA	NA	NA	6.40	46.00	16.10	NA	NA	NA	NA	NA	NA	
SW-2 downstream	1/24/1989	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.00	25.00	5.50	NA	NA	<2	2.90	2.20	11.00
	11/10/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.00	30.00	14.00	NA	NA	BDL	BDL	2.80	BDL
	5/11/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.80	33.00	18.00	NA	NA	BDL	BDL	2.90	0.04
	11/15/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.50	21.00	9.00	NA	NA	BDL	BDL	3.40	BDL
	5/13/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.10	27.00	124.00	NA	NA	BDL	BDL	1.60	0.01
	5/14/1997	NA	<5	19.00	<1	<2	<5	<5	<5	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/21/1998	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	6.70	26.00	14.00	NA	NA	NA	NA	NA	NA
	10/11/2006	<2	<5	22.00	<1	<5	<5	<10	<5	NA	NA	NA	7.01	51.00	15.40	NA	NA	NA	NA	NA	NA
	4/17/2007	<2	<5	14.00	<1	<5	<5	<10	<5	NA	NA	NA	6.99	46.00	12.40	NA	NA	NA	NA	NA	NA
	10/25/2007	<2	<5	17.40	<1	<5	<5	<10	<5	NA	NA	NA	6.73	60.00	15.90	NA	NA	NA	NA	NA	NA
4/28/2008	<2	<5	20.80	<1	<5	<5	<10	<5	NA	NA	NA	6.47	47.00	16.10	NA	NA	NA	NA	NA	NA	
SW-3	5/14/1997	NA	<5	63.00	<1	<2	<5	<5	<5	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SW-4	5/14/1997	NA	<5	35	<1	<2	<5	<5	<5	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Turbidity measured in nephelometric turbidity units (ntu)

Mercury by USEPA Method 7470A

Other metals by USEPA Method 6010B

VOCS by USEPA Method 8260

PCBs by USEPA Method 8082

SVOCs by USEPA Method 8270

Holding times were met on all samples

NA = Not analyzed

TABLE 4A - SOIL ANALYTICAL SVOCs  
(DECEMBER 2010 SAMPLING EVENT)

FORMER COLLINS AND AIKMAN LANDFILL  
(PERMIT #56-03)

1240 PARKER PADGETT ROAD, OLD FORT, NORTH CAROLINA

Sample Depth Date	SB-1 10-12' 12/7/2010	SB-2 5-6' 12/7/2010	SB-3 3-5' 12/7/2010	SB-4 7-9' 12/7/2010
<b>SVOCs (EPA METHOD 8270)</b>				
Acenaphthene	<40	<38	<40	<40
Acenaphthylene	<40	<38	<40	<40
Anthracene	<40	<38	<40	<40
Benidine	<400	<380	<410	<400
Benzo(a)anthracene	<40	<38	<40	<40
Benzo(b)fluoranthene	<40	<38	<40	<40
Benzo(k)fluoranthene	<40	<38	<40	<40
Benzo(g,h,i)perylene	<40	<38	<40	<40
Benzo(a)pyrene	<40	<38	<40	<40
Bis(2-chloroethoxy)methane	<400	<380	<410	<400
Bis(2-chloroethyl)ether	<400	<380	<410	<400
Bis(2-chloroisopropyl)ether	<400	<380	<410	<400
4-Bromophenyl-phenylether	<400	<380	<410	<400
2-Chloronaphthalene	<40	<38	<40	<40
4-Chlorophenyl-phenylether	<400	<380	<410	<400
Chrysene	<40	<38	<40	<40
Dibenz(a,h)anthracene	<40	<38	<40	<40
3,3-Dichlorobenzidine	<400	<380	<410	<400
2,4-Dinitrotoluene	<400	<380	<410	<400
2,6-Dinitrotoluene	<400	<380	<410	<400
Fluoranthene	<40	<38	<40	<40
Fluorene	<40	<38	<40	<40
Hexachlorobenzene	<400	<380	<410	<400
Hexachloro-1,3-butadiene	<400	<380	<410	<400
Hexachlorocyclopentadiene	<400	<380	<410	<400
Hexachloroethane	<400	<380	<410	<400
Indeno(1,2,3-cd)pyrene	<40	<38	<40	<40
Isophorone	<400	<380	<410	<400
Naphthalene	<40	<38	<40	<40
Nitrobenzene	<400	<380	<410	<400
n-Nitrosodimethylamine	<400	<380	<410	<400
n-Nitrosodiphenylamine	<400	<380	<410	<400
n-Nitrosodi-n-propylamine	<400	<380	<410	<400
Phenanthrene	<40	<38	<40	<40
Benzylbutyl phthalate	<400	<380	<410	<400
Bis(2-ethylhexyl)phthalate	<400	<380	<410	<400
Di-n-butyl phthalate	<400	<380	<410	<400
Diethyl phthalate	<400	<380	<410	<400
Dimethyl phthalate	<400	<380	<410	<400
Di-n-octyl phthalate	<400	<380	<410	<400
Pyrene	<40	<38	<40	<40
1,2,4-Trichlorobenzene	<400	<380	<410	<400
4-Chloro-3-methylphenol	<400	<380	<410	<400
2-Chlorophenol	<400	<380	<410	<400
2,4-Dichlorophenol	<400	<380	<410	<400
2,4-Dimethylphenol	<400	<380	<410	<400
4,6-Dinitro-2-methylphenol	<400	<380	<410	<400
2,4-Dinitrophenol	<400	<380	<410	<400
2-Nitrophenol	<400	<380	<410	<400
4-Nitrophenol	<400	<380	<410	<400
Pentachlorophenol	<400	<380	<410	<400
Phenol	<400	<380	<410	<400
2,4,6-Trichlorophenol	<400	<380	<410	<400

Holding times were met on all samples  
Results in ppb (ug/kg)

TABLE 4B - SOIL ANALYTICAL VOCs  
(DECEMBER 2010 SAMPLING EVENT)

FORMER COLLINS AND AIKMAN LANDFILL  
PERMIT #56-03  
1240 PARKER PADGETT ROAD, OLD FORT, NORTH CAROLINA

Parameter  VOCs (8260)	SB-1	SB-2	SB-3	SB-4
	10-12' 12/7/2010	5-6' 12/7/2010	3-5' 12/7/2010	7-9' 12/7/2010
Acetone	<300	<290	<300	<300
Acrylonitrile	<60	<57	<61	<60
Benzene	<6.0	<5.7	<6.1	<6.0
Bromobenzene	<6.0	<5.7	<6.1	<6.0
Bromodichloromethane	<6.0	<5.7	<6.1	<6.0
Bromoform	<6.0	<5.7	<6.1	<6.0
Bromomethane	<30	<29	<30	<30
n-Butylbenzene	<6.0	<5.7	<6.1	<6.0
sec-Butylbenzene	<6.0	<5.7	<6.1	<6.0
tert-Butylbenzene	<6.0	<5.7	<6.1	<6.0
Carbon tetrachloride	<6.0	<5.7	<6.1	<6.0
Chlorobenzene	<6.0	<5.7	<6.1	<6.0
Chlorodibromomethane	<6.0	<5.7	<6.1	<6.0
Chloroethane	<30	<29	<30	<30
2-Chloroethyl vinyl ether	<300	<290	<300	<300
Chloroform	<30	<29	<30	<30
Chloromethane	<15	<14	<15	<15
2-Chlorotoluene	<6.0	<5.7	<6.1	<6.0
4-Chlorotoluene	<6.0	<5.7	<6.1	<6.0
1,2-Dibromo-3-Chloropropane	<30	<29	<30	<30
1,2-Dibromoethane	<6.0	<5.7	<6.1	<6.0
Dibromomethane	<6.0	<5.7	<6.1	<6.0
1,2-Dichlorobenzene	<6.0	<5.7	<6.1	<6.0
1,3-Dichlorobenzene	<6.0	<5.7	<6.1	<6.0
1,4-Dichlorobenzene	<6.0	<5.7	<6.1	<6.0
Dichlorodifluoromethane	<30	<29	<30	<30
1,1-Dichloroethane	<6.0	<5.7	<6.1	<6.0
1,2-Dichloroethane	<6.0	<5.7	<6.1	<6.0
1,1-Dichloroethene	<6.0	<5.7	<6.1	<6.0
cis-1,2-Dichloroethene	<6.0	<5.7	<6.1	<6.0
trans-1,2-Dichloroethene	<6.0	<5.7	<6.1	<6.0
1,2-Dichloropropane	<6.0	<5.7	<6.1	<6.0
1,1-Dichloropropene	<6.0	<5.7	<6.1	<6.0
1,3-Dichloropropane	<6.0	<5.7	<6.1	<6.0
cis-1,3-Dichloropropene	<6.0	<5.7	<6.1	<6.0
trans-1,3-Dichloropropene	<6.0	<5.7	<6.1	<6.0
2,2-Dichloropropane	<6.0	<5.7	<6.1	<6.0
Di-isopropyl ether	<6.0	<5.7	<6.1	<6.0
Ethylbenzene	<6.0	<5.7	<6.1	<6.0
Hexachloro-1,3-butadiene	<6.0	<5.7	<6.1	<6.0
Isopropylbenzene	<6.0	<5.7	<6.1	<6.0
p-Isopropyltoluene	<6.0	<5.7	<6.1	<6.0
2-Butanone (MEK)	<60	<57	<61	<60
Methylene Chloride	<30	<29	<30	<30
4-Methyl-2-pentanone (MIBK)	<60	<57	<61	<60
Methyl tert-butyl ether	<6.0	<5.7	<6.1	<6.0
Naphthalene	<30	<29	<30	<30
n-Propylbenzene	<6.0	<5.7	<6.1	<6.0
Styrene	<6.0	<5.7	<6.1	<6.0
1,1,1,2-Tetrachloroethane	<6.0	<5.7	<6.1	<6.0
1,1,2,2-Tetrachloroethane	<6.0	<5.7	<6.1	<6.0
1,1,2-Trichloro-1,2,2-trifluoroethane	<6.0	<5.7	<6.1	<6.0
Tetrachloroethene	<6.0	<5.7	<6.1	<6.0
Toluene	<30	<29	<30	<30
1,2,3-Trichlorobenzene	<6.0	<5.7	<6.1	<6.0
1,2,4-Trichlorobenzene	<6.0	<5.7	<6.1	<6.0
1,1,1-Trichloroethane	<6.0	<5.7	<6.1	<6.0
1,1,2-Trichloroethane	<6.0	<5.7	<6.1	<6.0
Trichloroethene	<6.0	<5.7	<6.1	<6.0
Trichlorofluoromethane	<30	<29	<30	<30
1,2,3-Trichloropropane	<6.0	<5.7	<6.1	<6.0
1,2,4-Trimethylbenzene	<6.0	<6.0	<6.0	<6.0
1,2,3-Trimethylbenzene	<6.0	<6.0	<6.0	<6.0
1,3,5-Trimethylbenzene	<6.0	<6.0	<6.0	<6.0
Vinyl chloride	<6.0	<5.7	<6.1	<6.0
Xylenes, Total	<18	<18	<18	<18

Holding times were met on all samples

**TABLE 4C - SOIL ANALYTICAL METALS  
(DECEMBER 2010 SAMPLING EVENT)**

**FORMER COLLINS AND AIKMAN LANDFILL  
PERMIT #56-03  
1240 PARKER-PADGETT ROAD, OLD FORT, NORTH CAROLINA**

<b>Parameter</b>	<b>SB-1 10-12' 12/7/2010</b>	<b>SB-2 5-6' 12/7/2010</b>	<b>SB-3 3-5' 12/7/2010</b>	<b>SB-4 7-9' 12/7/2010</b>
<b>RCRA METALS</b>				
<i>Arsenic</i>	12	16	15	13
<i>Cadmium</i>	ND	0.23	ND	0.42
<i>Selenium</i>	80	74	62	75
<i>Silver</i>	ND	ND	ND	ND
<i>Mercury</i>	ND	ND	0.002	ND
<i>Barium</i>	340	440	270	460
<i>Chromium</i>	48	56	33	55
<i>Lead</i>	41	39	35	43

Holding times were met on all samples  
Results and Criterion in ppm (mg/kg)

**TABLE 4D - SOIL ANALYTICAL TCLP  
(METALS, VOLATILES, PESTICIDES, HERBICIDES)  
(DECEMBER 2010 SAMPLING EVENT)**

**FORMER COLLINS AND AIKMAN LANDFILL  
PERMIT #56-03  
1240 PARKER-PADGETT ROAD, OLD FORT, NORTH CAROLINA**

	<b>SB-2</b>	<b>SB-4</b>
	<b>5-6'</b>	<b>7-9'</b>
<b>Parameter</b>	<b>12/7/2010</b>	<b>12/7/2010</b>

	<b>SB-2</b>	<b>SB-4</b>
	<b>5-6'</b>	<b>7-9'</b>
<b>Parameter</b>	<b>12/7/2010</b>	<b>12/7/2010</b>

**TCLP METALS**

<i>Arsenic</i>	<.05	<.05
<i>Cadmium</i>	<.05	<.05
<i>Selenium</i>	<.05	<.05
<i>Silver</i>	<.05	<.05
<i>Mercury</i>	<.001	<.001
<i>Barium</i>	<b>0.74</b>	<b>0.15</b>
<i>Chromium</i>	<.05	<.05
<i>Lead</i>	<.05	<.05

**TCLP PESTICIDES**

<i>Chlordane</i>	<.005	<.005
<i>Endrin</i>	<.005	<.005
<i>Heptachlor</i>	<.005	<.005
<i>Lindane</i>	<.005	<.005
<i>Methoxychlor</i>	<.005	<.005
<i>Toxaphene</i>	<.01	<.01

**TCLP VOLATILES**

<i>Benzene</i>	<.05	<.05
<i>carbon tetrachloride</i>	<.05	<.05
<i>chlorobenzene</i>	<.05	<.05
<i>chloroform</i>	<.25	<.25
<i>1,2-dichloroethane</i>	<.05	<.05
<i>1,1-dichloroethene</i>	<.05	<.05
<i>2-butanone (MEK)</i>	<.5	<.5
<i>tetrachloroethene</i>	<.05	<.05
<i>trichloroethene</i>	<.05	<.05
<i>vinyl chloride</i>	<.05	<.05

**TCLP HERBICIDES**

<i>2,4,5-TP (Silvex)</i>	<.002	<.002
<i>2,4-D</i>	<.002	<.002

Holding times were met on all samples  
Results and Criterion in mg/l

**APPENDIX A**  
**LANDFILL DISPOSAL RECORDS**

# State of North Carolina

Department of Environment, Health, and Natural Resources  
Division of Solid Waste Management

## SANITARY LANDFILL ANNUAL REPORT

FOR THE PERIOD OF JULY 1, 1992-JUNE 30, 1993

Solid waste disposal facilities are a vital part of the North Carolina infrastructure to manage solid waste. This report gathers information about solid waste facilities in the State.

Separate surveys have been sent to all counties and cities to gather information about other components of solid waste management programs in North Carolina.

Thank you for your assistance in completing this report. The information gathered as a part of this process should be of value to local governments and the State in assessing waste management programs and future solid waste planning.

If you have any questions or concerns regarding this report please contact the Solid Waste Section at 919-733-0692 or a Waste Management Specialist. Completed forms must be returned to the Waste Management Specialist for your area. Refer to the attached map for names and addresses. A copy of this report must be sent to the County Manager of each county served by this facility.

Facility Name COLLINS & AIKMAN SANITARY LANDFILL Permit Number 56-03  
 Address State Road No.1240  
 Location McDowell County, North Carolina  
 Facility Owner Collins & Aikman Corporation  
 Facility Operator W. C. Black & Sons, Marion, NC  
 Facility Contact Person Jack Davis, Plant Engineer, Collins & Aikman, Old Fort, NC  
 Phone Number of Contact Person (704) 668-3235 FAX (704) 668-3261  
 Date Facility Began Receiving Waste January, 1982  
 Date Facility Expected to Close See attached letter  
 County(s) Served by this Facility N/A  
 Tipping Fee \$ N/A /Ton \_\_\_\_\_ (please attach a schedule of tip fees if appropriate)

1. Total waste landfilled at this facility during the period of July 1, 1992, thru June 30, 1993.  
 Indicate tonnage received from each county served by this facility.

MONTH	COUNTY			TOTAL TONS
	PRIVATE	COUNTY	COUNTY	
	C&A Old Fort			
July	461			461
August	593			593
September	619			619
October	590			590
November	739			739
December	693			693
January	377			377
February	597			597
March	462			462
April	605			605
May	413			413
June	291			291
<b>TOTAL TONS</b>	<b>6,439</b>			<b>6,439</b>

2. Please indicate types of disposal activity occurring at this facility. (Check all that apply)

- Landfilling of residential waste
- Landfilling of commercial waste
- Landfilling of industrial waste
- Landfilling of yard waste
- Landfilling of construction and demolition waste
- Landfilling of demolition waste (limbs, bricks, stumps)
- Landfilling of asbestos
- Landfilling of shredded or split tires
- Landfilling of ash
- Landfilling of other waste (please specify) Automotive Carpet Trim Waste

3. Please indicate other types of activities occurring at this landfill. (Check all that apply)

- Scrap tire collection
- Yard waste composting
- Recyclable material collection
- Used oil collection
- Household hazardous waste collection
- White goods separation
- Lead acid battery collection
- Shredding or grinding (other than tires) operation  
Material (specify) \_\_\_\_\_
- Other activity (please describe) \_\_\_\_\_

4. Are there SWANA/GRCDA or other certified operator(s) at this facility?

- Yes
- No

If yes, please indicate the following: (attach additional sheets if necessary)

Name: \_\_\_\_\_

Certification type and expiration date: \_\_\_\_\_

Name: \_\_\_\_\_

Certification type and expiration date: \_\_\_\_\_

5. Have you begun the siting process for your county's next landfill?

- Yes. If yes, please describe: \_\_\_\_\_
- No

**Other Comments**

We would appreciate your comments about this report or other matters regarding solid waste management in North Carolina. Thank you for your cooperation. (Attach additional sheets if needed.)

This completed report must be mailed to the Waste Management Specialist for your area.

Person completing this form: David N. Little Phone: (704) 548-2200

Signature: *David N. Little* (please print) Date: 7/28/93

# State of North Carolina

Department of Environment, Health, and Natural Resources  
 Division of Solid Waste Management and Office of Waste Reduction  
 P.O. Box 27687 Raleigh, NC 27611

## INDUSTRIAL WASTE LANDFILL ANNUAL REPORT

FOR THE PERIOD OF JULY 1, 1993-JUNE 30, 1994

Separate surveys will be sent to all counties and cities to gather information about other components of solid waste management programs in North Carolina.

For questions or assistance in completing this report, contact your Regional Waste Management Specialist. Completed forms must be returned to your Regional Waste Management Specialist:

Albert Hetzell  
 59 Woodfin Place  
 Asheville NC 28801 (704)251-6208

A copy of this report must be sent to the county manager of each county from which waste was received.

Name: COLLINS & AIKMAN Permit Number: 5603  
 Address: P.O. BOX 669 OLD FORT NC 28762  
 Facility Contact Person: JACK DAVIS  
 Phone Number of Contact Person: (704)668-3235

Fax: (704) 668-3261

Date Facility Began Receiving Waste: 1/82 Date Facility Expected to Close: See attached letter  
 Tipping Fee \$ N/A /Ton (Attach a schedule of tipping fees if appropriate.)

1. Total waste landfilled at this facility during the period of July 1, 1993, through June 30, 1994. Indicate below tonnage received by county of waste origin.  
 (Photocopy the Table and use when waste is received at this landfill from more than three counties.)

MONTH	TONS FROM <del>COUNTY</del> C&A Old Fort PRIVATE	TONS FROM <hr/> COUNTY	TONS FROM <hr/> COUNTY	TOTAL
July	258			
August	227			
September	251			
October	552			
November	709			
December	636			
January	451			
February	806			
March	683			
April	645			
May	737			
June	663			
<b>TOTAL</b>	6618			

2. Indicate types of disposal activity occurring at this facility. (Check all that apply.)

- Landfilling of industrial waste (specify waste) \_\_\_\_\_
- Landfilling of construction and demolition waste
- Landfilling of asbestos
- Landfilling of ash
- Landfilling of sludge
- Landfilling of other waste (specify) Automotive carpet trim waste

3. Indicate other types of activities occurring at this facility. (Check all that apply.)

- Yard waste composting
- Recycled material collection
- Shredding or grinding (other than tires) operation  
Material(specify) \_\_\_\_\_
- Other Activity (describe) \_\_\_\_\_

4. Are there SWANA/GRCDA or other certified operator(s) at this facility?

- Yes
- No

If yes, indicate the following: (Attach additional sheet if necessary.)

Name: \_\_\_\_\_

Certification type and expiration date: \_\_\_\_\_

Name: \_\_\_\_\_

Certification type and expiration date: \_\_\_\_\_

#### Other Comments

We would appreciate your comments about this report or other matters regarding solid waste management in North Carolina. Thank you for your cooperation. (Attach additional sheets if needed.)

This report must be sent to the Regional Waste Management Specialist for your area.

Person completing this form: David N. Little Phone: (704) 548-2200

(print legibly)

Signature: David N. Little Date: 7/25/94

# State of North Carolina

Department of Environment, Health, and Natural Resources  
Division of Solid Waste Management and Office of Waste Reduction

P.O. Box 27687 Raleigh, NC 27611

## INDUSTRIAL WASTE LANDFILL

### ANNUAL REPORT

FOR THE PERIOD OF JULY 1, 1994-JUNE 30, 1995

If you have questions or require assistance in completing this report, contact your Regional Waste Management Specialist. Completed forms must be returned by August 1, 1995 to your Regional Waste Management Specialist:

Al Hetzell

59 Woodfin Place

Asheville, NC 28801

(704) 251-6208

A copy of this report must be sent to the county manager of each county from which waste was received.

Name: COLLINS & AIKMAN

Permit Number: 5603

Address: PO BOX 669 OLD FORT NC 28762

Facility Contact Person: JACK DAVIS

Phone Number of Contact Person: (704) 668-3235

Fax: 704-668-3261

Date Facility Began Receiving Waste: 1/82

Date Facility Expected to Close: See Attached Letter

Tipping Fee \$ N/A /Ton (Attach a schedule of tipping fees if appropriate.)

1. Total waste landfilled at this facility during the period of July 1, 1994, through June 30, 1995. Indicate below tonnage received by county of waste origin.

(Photocopy the Table and use when waste is received at this landfill from more than three counties.)

MONTH	TONS FROM site in C&A Old Fort <del>COUNTY</del> Private	TONS FROM site in <u>        </u> COUNTY	TONS FROM site in <u>        </u> COUNTY	TOTAL
July	454			
August	642			
September	618			
October	557			
November	572			
December	521			
January	419			
February	592			
March	601			
April	661			
May	556			
June	410			
<b>TOTAL</b>	<b>6,603</b>			

2. Indicate types of disposal activity occurring at this facility. (Check all that apply.)

- Landfilling of industrial waste (specify waste) \_\_\_\_\_
- Landfilling of construction and demolition waste
- Landfilling of asbestos
- Landfilling of ash
- Landfilling of sludge
- Landfilling of other waste (specify) Automotive carpet trim waste

3. Indicate other types of activities occurring at this facility. (Check all that apply.)

- Yard waste composting or mulching
- Recycled material collection
- Shredding or grinding materials other than tires (specify) \_\_\_\_\_
- Other Activity (describe) \_\_\_\_\_

4. Are there SWANA or other certified operator(s) at this facility?

- Yes
- No

If yes, indicate the following: (Attach additional sheet if necessary.)

Name: \_\_\_\_\_  
 Certification type and expiration date: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Certification type and expiration date: \_\_\_\_\_

Other Comments

We would appreciate your comments about this report or other matters regarding solid waste management in North Carolina. Thank you for your cooperation. (Attach additional sheets if needed.)

This report must be sent to the Regional Waste Management Specialist for your area.

Person completing this form: David N. Little Phone: 704-548-2200

Signature: David N. Little (print legibly) Date: 7/11/95

**State of North Carolina**  
 Department of Environment, Health, and Natural Resources  
 Division of Solid Waste Management and Office of Waste Reduction  
**INDUSTRIAL WASTE LANDFILL**  
**ANNUAL REPORT**  
 FOR THE PERIOD OF JULY 1, 1995-JUNE 30, 1996

A copy of this report must be sent to the county manager of each county from which waste was received.

**COLLINS & AIKMAN**  
**PO BOX 669**  
**OLD FORT, NC 28762**

Permit: 5603 Id: P0093

Attn: JACK DAVIS

Phone: (704) 668-3235  
 Fax: (704) 668-3261

If you have questions or require assistance in completing this report, contact your Regional Waste Management Specialist. Completed forms must be returned by August 1, 1996 to:

Al Hetzell  
 59 Woodfin Place  
 Asheville, NC 28801 (704) 251-6208

Tipping Fee \$ N/A /Ton (Attach a schedule of tipping fees if appropriate.)

1. Total waste landfilled at this facility during the period of July 1, 1995, through June 30, 1996. Indicate below tonnage received by county of waste origin.

(Photocopy the Table and use when waste is received at this landfill from more than three counties.)

MONTH	TONS FROM site in <u>McDowell</u> COUNTY	TONS FROM site in <u>          </u> COUNTY	TONS FROM site in <u>          </u> COUNTY	TOTAL
July	333.1			
August	430.5			
September	391.1			
October	452.2			
November	496.2			
December	567.2			
January	343.4			
February	408.7			
March	341.4			
April	290.6			
May	359.5			
June	333.1			
<b>TOTAL</b>	4747.0			

2. Indicate types of disposal activity occurring at this facility. (Check all that apply.)

- Landfilling of industrial waste (specify waste) \_\_\_\_\_
- Landfilling of construction and demolition waste
- Landfilling of asbestos
- Landfilling of ash
- Landfilling of sludge
- Landfilling of other waste (specify) Automotive Carpet Trim Waste

3. Indicate other types of activities occurring at this facility. (Check all that apply.)

- Yard waste composting or mulching
- Recycled material collection
- Shredding or grinding materials other than tires (specify) \_\_\_\_\_
- Other Activity (describe) \_\_\_\_\_

4. Are there SWANA or other certified operator(s) at this facility?

- Yes
- No

If yes, indicate the following: (Attach additional sheet if necessary.)

Name: \_\_\_\_\_  
Certification type and expiration date: \_\_\_\_\_  
Name: \_\_\_\_\_  
Certification type and expiration date: \_\_\_\_\_

#### Other Comments

We would appreciate your comments about this report or other matters regarding solid waste management in North Carolina. Thank you for your cooperation. (Attach additional sheets if needed.)

This report must be sent to the Regional Waste Management Specialist for your area.

Person completing this form: David N. Little Phone: (704) 548-2200

(print legibly)

Signature: *David N. Little* Date: 7/29/96

DL

JUL 1 1997

**State of North Carolina**  
 Department of Environment, Health, and Natural Resources  
 Division of Waste Management  
**INDUSTRIAL WASTE LANDFILL**  
**ANNUAL REPORT**  
 FOR THE PERIOD OF JULY 1, 1996 - JUNE 30, 1997

A copy of this report must be sent to the county manager of each county from which waste was received.

COLLINS & AIKMAN  
PO BOX 669  
OLD FORT, NC 28762

Permit: 5603 Id: P0093

Attn: JACK DAVIS

Phone: (704) 668-3235  
Fax: (704) 668-3261

If you have questions or require assistance in completing this report, contact your Regional Waste Management Specialist. Completed forms must be returned by August 1, 1997 to:

Al Hetzell  
59 Woodfin Place  
Asheville, NC 28801 (704) 251-6208

Tipping Fee \$ N/A /Ton (Attach a schedule of tipping fees if appropriate.)

1. Total waste landfilled at this facility during the period of July 1, 1996 through June 30, 1997. Indicate below tonnage received by county of waste origin. **DO NOT** include waste diverted from landfilling for recycling, reuse, mulching, or composting.

MONTH	TONS FROM site in <u>McDowell</u> COUNTY	TONS FROM site in <u>          </u> COUNTY	TONS FROM site in <u>          </u> COUNTY	TOTAL
July	187.4			
August	316.9			
September	392.8			
October	383.4			
November	318.6			
December	331.7			
January	202.5			
February	276.8			
March	257.9			
April	271.4			
May	218.9			
June	246.4			
<b>TOTAL</b>	<b>3404.5</b>			

2. Indicate types of disposal activity occurring at this facility. (Check all that apply.)

- Landfilling of industrial waste (specify waste) \_\_\_\_\_
- Landfilling of construction and demolition waste
- Landfilling of asbestos
- Landfilling of ash
- Landfilling of sludge
- Landfilling of other waste (specify) Automotive carpet trim waste

3. Indicate other types of activities occurring at this facility. (Check all that apply.)

- Yard waste composting or mulching
- Recycled material collection
- Shredding or grinding materials other than tires (specify) \_\_\_\_\_
- Other Activity (describe) \_\_\_\_\_

4. Are there SWANA or other certified operator(s) at this facility?

- Yes
- No See note below

If yes, indicate the following: (Attach additional sheet if necessary.)

Name: \_\_\_\_\_  
Certification type and expiration date: \_\_\_\_\_  
Name: \_\_\_\_\_  
Certification type and expiration date: \_\_\_\_\_

#### Other Comments

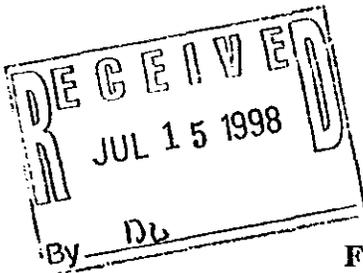
We would appreciate your comments about this report or other matters regarding solid waste management in North Carolina. Thank you for your cooperation. (Attach additional sheets if needed.)

A corporate staff associate is currently registered to attend a SWANA MOLO training and certification course.

**\*\* This report must be sent to the Regional Waste Management Specialist for your area.\*\***

**CERTIFICATION:** I certify that the information provided is an accurate representation of the activity at this facility.

Signature: David N. Little Date: 7/10/97  
Name David N. Little Phone (704) 548-2200  
(print legibly)



**State of North Carolina**  
 Department of Environment, Health, and Natural Resources  
 Division of Waste Management

**INDUSTRIAL WASTE LANDFILL  
 ANNUAL REPORT**

**FOR THE PERIOD OF JULY 1, 1997 - JUNE 30, 1998**

A copy of this report must be sent to the county manager of each county from which waste was received.

**COLLINS & AIKMAN  
 PO BOX 669  
 OLD FORT, NC 28762**

Permit: 5603 Id: P0093

Attn: JACK DAVIS

Phone:

Fax:

If you have questions or require assistance in completing this report, contact your Regional Waste Management Specialist. Completed forms must be returned by August 1, 1998 to:

Al Hetzell  
 59 Woodfin Place  
 Asheville, NC 28801 (704) 251-6208

Tipping Fee \$ N/A /Ton (Attach a schedule of tipping fees if appropriate.)

1. Total waste landfilled at this facility during the period of July 1, 1997 through June 30, 1998. Indicate below tonnage received by county of waste origin. **DO NOT** include waste diverted from landfilling for recycling, reuse, mulching, or composting.

MONTH	TONS FROM site in <u>McDowell</u> COUNTY	TONS FROM site in <u>          </u> COUNTY	TONS FROM site in <u>          </u> COUNTY	TOTAL
July	175.1			
August	296.4			
September	304.6			
October	226.7			
November	203.8			
December	223.9			
January	153.8			
February	200.1			
March	187.8			
April	193.5			
May	240.3			
June	241.1			
<b>TOTAL</b>	<b>2647.1</b>			

2. Indicate types of disposal activity occurring at this facility. (Check all that apply.)

- Landfilling of industrial waste (specify waste) \_\_\_\_\_
- Landfilling of construction and demolition waste
- Landfilling of asbestos
- Landfilling of ash
- Landfilling of sludge
- Landfilling of other waste (specify) Automotive carpet trim waste

3. Indicate other types of activities occurring at this facility. (Check all that apply.)

- Yard waste composting or mulching
- Recycled material collection
- Shredding or grinding materials other than tires (specify) \_\_\_\_\_
- Other Activity (describe) \_\_\_\_\_

4. Are there SWANA or other certified operator(s) at this facility?

- Yes
- No See below

If yes, indicate the following: (Attach additional sheet if necessary.)

Name: \_\_\_\_\_  
 Certification type and expiration date: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Certification type and expiration date: \_\_\_\_\_

**Other Comments**

We would appreciate your comments about this report or other matters regarding solid waste management in North Carolina. Thank you for your cooperation. (Attach additional sheets if needed.)

Greg Mackin, a Corporate staff associate, is currently SWANA MOLO certified as a Landfill Technical Associate. His certification expires on September 25, 2000.

**\*\* This report must be sent to the Regional Waste Management Specialist for your area.\*\***

**CERTIFICATION:** I certify that the information provided is an accurate representation of the activity at this facility.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Name David N. Little Phone 704-548-2200  
(print legibly)

# State of North Carolina

Department of Environment, Health, and Natural Resources  
Division of Waste Management

## INDUSTRIAL WASTE LANDFILL ANNUAL REPORT

FOR THE PERIOD OF JULY 1, 1998 - JUNE 30, 1999

A copy of this report must be sent to the county manager of each county from which waste was received.

COLLINS & AIKMAN  
PO BOX 669  
OLD FORT, NC 28762

Permit: 5603 Id: P0093

Attn: JACK DAVIS

Phone: 8286683235  
Fax: 828668326F54

If you have questions or require assistance in completing this report, contact your Regional Waste Management Specialist. Completed forms must be returned by August 1, 1999to:

Al Hetzell  
59 Woodfin Place  
Asheville, NC 28801 (828) 251-6208

Tipping Fee \$ N/A /Ton (Attach a schedule of tipping fees if appropriate.)

1. Total waste landfilled at this facility during the period of July 1, 1998 through June 30, 1999. Indicate below tonnage received by county of waste origin. DO NOT include waste diverted from landfilling for recycling, reuse, mulching, or composting.

MONTH	TONS FROM site in <u>McDowell</u> COUNTY	TONS FROM site in <u>                    </u> COUNTY	TONS FROM site in <u>                    </u> COUNTY	TOTAL
July	241.1			
August	228.0			
September	222.2			
October	233.7			
November	303.4			
December	151.7			
January	192.7			
February	216.9			
March	244.0			
April	237.0			
May	270.6			
June	254.6			
TOTAL	2795.9			

(Photocopy the Table and use when waste is received at this facility from more than three counties.)

2. Indicate types of disposal activity occurring at this facility. (Check all that apply.)

- Landfilling of industrial waste (specify waste) \_\_\_\_\_
- Landfilling of construction and demolition waste
- Landfilling of asbestos
- Landfilling of ash
- Landfilling of sludge
- Landfilling of other waste (specify) Automatic carpet trim waste

3. Indicate other types of activities occurring at this facility. (Check all that apply.)

- Yard waste composting or mulching
- Recycled material collection
- Shredding or grinding materials other than tires (specify) \_\_\_\_\_
- Other Activity (describe) \_\_\_\_\_

4. Are there SWANA or other certified operator(s) at this facility?

- Yes
- No (See Below)

If yes, indicate the following: (Attach additional sheet if necessary.)

Name: \_\_\_\_\_  
 Certification type and expiration date: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Certification type and expiration date: \_\_\_\_\_

Other Comments

We would appreciate your comments about this report or other matters regarding solid waste management in North Carolina. Thank you for your cooperation. (Attach additional sheets if needed.)

Greg Mackin, a Corporate staff associate, is currently SWANA MOLD certified as a Landfill Technical Associate. His certificate No. 35361 expires on September 25, 2000.

\*\* This report must be sent to the Regional Waste Management Specialist for your area.\*\*

CERTIFICATION: I certify that the information provided is an accurate representation of the activity at this facility.

Signature: David N. Little Date: 8/10/99

Name David N. Little Phone 704-548-2200  
(print legibly)

TO: DAVE LITTLE  
 FROM: LINDA GREGORY

DATE: JULY 29, 1999  
 CC: JACK DAVIS

*7/29/00*

## LANDFILL - SCAP CARPET NUMBER OF BALES

FISCAL YEAR - JULY 1, 1999 TO JUNE 30, 2000

### BLACK AND SONS

MONTH	NUMBER OF BALES REMOVED	<u>Tons</u>
<b>1999</b>		
JULY	167	68.5
AUGUST	642	263.2
SEPTEMBER	608	249.3
OCTOBER	651	266.9
NOVEMBER	621	255.8
DECEMBER	318	130.4
<b>2000</b>		
JANUARY	286	117.3
FEBRUARY	517	212.0
MARCH	344	141.0
APRIL	370	151.7
MAY	358	146.8
JUNE	507	207.9
<b>TOTAL BALES REMOVED</b>	<b>5,389</b>	<u><b>2210.8</b></u>

*Avg. wt. of bales = 822 lbs  
 ÷ 2000 lbs/ton  
 = .41 tons/bale*

# State of North Carolina

Department of Environment, Health, and Natural Resources  
Division of Waste Management

## INDUSTRIAL WASTE LANDFILL ANNUAL REPORT

FOR THE PERIOD OF JULY 1, 2000 - JUNE 30, 2001

A copy of this report must be sent to the county manager of each county from which waste was received.

COLLINS & AIKMAN  
PO BOX 669  
OLD FORT, NC 28762

Permit: 5603 Id: P0093

Attn: JACK DAVIS

Phone: 8286683235

Fax: 8286683254

If you have questions or require assistance in completing this report, contact your Regional Waste Management Specialist. Completed forms must be returned by August 1, 2001 to:

Al Hetzell  
59 Woodfin Place  
Asheville, NC 28801 (828) 251-6208

Tipping Fee \$ N/A /Ton (Attach a schedule of tipping fees if appropriate.)

1. Total waste landfilled at this facility during the period of July 1, 2000 through June 30, 2001. Indicate below tonnage received by county of waste origin. DO NOT include waste diverted from landfilling for recycling, reuse, mulching, or composting.

MONTH	TONS FROM site in <u>McDowell</u> COUNTY	TONS FROM site in <u>                    </u> COUNTY	TONS FROM site in <u>                    </u> COUNTY	TOTAL
July	199			
August	295			
September	279			
October	270			
November	312			
December	236			
January	149			
February	250			
March	206			
April	259			
May	317			
June	216			
TOTAL	2,988			

(Photocopy the Table and use when waste is received at this facility from more than three counties.)

2. Indicate types of disposal activity occurring at this facility. (Check all that apply.)

- Landfilling of industrial waste (specify waste) \_\_\_\_\_
- Landfilling of construction and demolition waste \_\_\_\_\_
- Landfilling of asbestos \_\_\_\_\_
- Landfilling of ash \_\_\_\_\_
- Landfilling of sludge \_\_\_\_\_
- Landfilling of other waste (specify) AUTOMOTIVE CARPET TRIM WASTE \_\_\_\_\_

3. Indicate other types of activities occurring at this facility. (Check all that apply.)

- Yard waste composting or mulching \_\_\_\_\_
- Recycled material collection \_\_\_\_\_
- Shredding or grinding materials other than tires (specify) \_\_\_\_\_

Other Activity (describe) \_\_\_\_\_

4. Are there SWANA or other certified operator(s) at this facility?

- Yes
- No

If yes, indicate the following: (Attach additional sheet if necessary.)

Name: \_\_\_\_\_  
 Certification type and expiration date: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Certification type and expiration date: \_\_\_\_\_

Other Comments

We would appreciate your comments about this report or other matters regarding solid waste management in North Carolina. Thank you for your cooperation. (Attach additional sheets if needed.)

**\*\* This report must be sent to the Regional Waste Management Specialist for your area.\*\***

CERTIFICATION: I certify that the information provided is an accurate representation of the activity at this facility.

Signature: *Jack Davis* Date: 7-25-01  
 Name: JACK DAVIS Phone: (828) 668-3235  
 (print legibly)

**State of North Carolina**  
 Department of Environment and Natural Resources  
 Division of Waste Management  
**INDUSTRIAL WASTE LANDFILL**  
**ANNUAL REPORT**

FOR THE PERIOD OF JULY 1, 2001 - JUNE 30, 2002

A copy of this report must be sent to the county manager of each county from which waste was received.

COLLINS & AIKMAN  
 PO BOX 669  
 OLD FORT, NC 28762

Permit: 5603 Id: P0093

Attn: JACK DAVIS

Phone: 8286683235

Fax: 8286683254

If you have questions or require assistance in completing this report, contact your Regional Waste Management Specialist. According to (G.S. 130A-309D(b)) completed forms must be returned by August 1, 2002. Please mail reports to your Regional Waste Management Specialist listed below.

Al Hetzell  
 852 Merrimon Ave  
 Asheville, NC 28804 (828) 251-6784

Tipping Fee \$ N/A /Ton (Attach a schedule of tipping fees if appropriate.)

1. Total waste landfilled at this facility during the period of July 1, 2001 through June 30, 2002. Indicate below tonnage received by county of waste origin. **DO NOT** include waste diverted from landfilling for recycling, reuse, mulching, or composting.

MONTH	TONS FROM site in <i>McDowell</i> COUNTY	TONS FROM site in _____ COUNTY	TONS FROM site in _____ COUNTY	TOTAL
July	135			
August	69			
September	139			
October	125			
November	102			
December	109			
January	93			
February	116			
March	115			
April	137			
May	177			
June	148			
TOTAL	1465			

(Photocopy the Table and use when waste is received at this facility from more than three counties.)

2. Indicate types of disposal activity occurring at this facility. (Check all that apply.)

- Landfilling of industrial waste (specify waste) \_\_\_\_\_
- Landfilling of construction and demolition waste \_\_\_\_\_
- Landfilling of asbestos \_\_\_\_\_
- Landfilling of ash \_\_\_\_\_
- Landfilling of sludge \_\_\_\_\_
- Landfilling of other waste (specify) Automotive Carpet Trim Waste

3. Indicate other types of activities occurring at this facility. (Check all that apply.)

- Yard waste composting or mulching \_\_\_\_\_
- Recycled material collection \_\_\_\_\_
- Shredding or grinding materials other than tires (specify) \_\_\_\_\_
- Other Activity (describe) \_\_\_\_\_

4. Are there SWANA or other certified operator(s) at this facility?

- Yes
- No

If yes, indicate the following: (Attach additional sheet if necessary.)

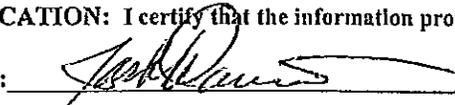
Name: \_\_\_\_\_  
 Certification type and expiration date: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Certification type and expiration date: \_\_\_\_\_

Other Comments

We would appreciate your comments about this report or other matters regarding solid waste management in North Carolina. Thank you for your cooperation. (Attach additional sheets if needed.)

\*\* This report must be sent to the Regional Waste Management Specialist for your area.\*\*

CERTIFICATION: I certify that the information provided is an accurate representation of the activity at this facility.

Signature:  Date: 7/11/02  
 Name JACK DAVIS Phone (828) 668-3233  
 (print legibly)

# State of North Carolina

Department of Environment and Natural Resources  
Division of Waste Management

## INDUSTRIAL WASTE LANDFILL ANNUAL REPORT

FOR THE PERIOD OF JULY 1, 2002 - JUNE 30, 2003

A copy of this report must be sent to the county manager of each county from which waste was received.

COLLINS & AIKMAN  
PO BOX 669  
OLD FORT, NC 28762

Permit: 5603 Id: P0093

Attn: JACK DAVIS

Phone: 8286683235  
Fax: 8286683254

If you have questions or require assistance in completing this report, contact your Regional Waste Management Specialist. According to (G.S. 130A-309D(b)) completed forms must be returned by August 1, 2003. Please mail reports to your Regional Waste Management Specialist listed below.

Al Hetzell  
852 Merrimon Ave  
Asheville, NC 28804 (828) 251-6784

Tipping Fee \$ 14/A /Ton (Attach a schedule of tipping fees if appropriate.)

1. Total waste landfilled at this facility during the period of July 1, 2002 through June 30, 2003. Indicate below tonnage received by county of waste origin. **DO NOT** include waste diverted from landfilling for recycling, reuse, mulching, or composting.

MONTH	TONS FROM site in <u>McDowell</u> COUNTY	TONS FROM site in <u>          </u> COUNTY	TONS FROM site in <u>          </u> COUNTY	TOTAL
July	254			
August	406			
September	418			
October	342			
November	373			
December	400			
January	369			
February	469			
March	360			
April	421			
May	461			
June	475			
TOTAL	4748			

(Photocopy the Table and use when waste is received at this facility from more than three counties.)

**State of North Carolina**  
 Department of Environment and Natural Resources  
 Division of Waste Management  
**INDUSTRIAL WASTE LANDFILL**  
**ANNUAL REPORT**  
 FOR THE PERIOD OF JULY 1, 2003 - JUNE 30, 2004

A copy of this report must be sent to the county manager of each county from which waste was received.

COLLINS & AIKMAN  
 PO BOX 669  
 OLD FORT, NC 28762

Permit: 5603 Id: P0093

Attn: JACK DAVIS

Phone: 8286683235  
 Fax: 8286683254

If you have questions or require assistance in completing this report, contact your Regional Waste Management Specialist. According to (G.S. 130A-309D(b)) completed forms must be returned by August 1, 2004. Please mail reports to your Regional Waste Management Specialist listed below.

JIM PATTERSON  
 852 Merrimon Ave  
 Asheville, NC 28804 (828) 251-6784

Tipping Fee \$ NA /Ton (Attach a schedule of tipping fees if appropriate.)

1. Total waste landfilled at this facility during the period of July 1, 2003 through June 30, 2004. Indicate below tonnage received by county of waste origin. DO NOT include waste diverted from landfilling for recycling, reuse, mulching, or composting.

MONTH	TONS FROM site in <u>McDowell</u> COUNTY	TONS FROM site in <u>                    </u> COUNTY	TONS FROM site in <u>                    </u> COUNTY	TOTAL
July	322			
August	441			
September	456			
October	387			
November	457			
December	356			
January	328			
February	603			
March	465			
April	481			
May	479			
June	577			
TOTAL	5292			

(Photocopy the Table and use when waste is received at this facility from more than three counties.)

2. Indicate types of disposal activity occurring at this facility. (Check all that apply.)

- Landfilling of industrial waste (specify waste) \_\_\_\_\_
- Landfilling of construction and demolition waste
- Landfilling of asbestos
- Landfilling of ash
- Landfilling of sludge
- Landfilling of other waste (specify) Automotive Carpet Trim Waste

3. Indicate other types of activities occurring at this facility. (Check all that apply.)

- Yard waste composting or mulching
- Recycled material collection
- Shredding or grinding materials other than tires (specify) \_\_\_\_\_
- Other Activity (describe) \_\_\_\_\_

4. Are there SWANA or other certified operator(s) at this facility?

- Yes
- No

If yes, indicate the following: (Attach additional sheet if necessary.)

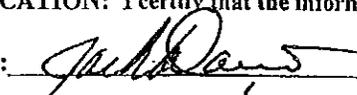
Name: \_\_\_\_\_  
Certification type and expiration date: \_\_\_\_\_  
Name: \_\_\_\_\_  
Certification type and expiration date: \_\_\_\_\_

Other Comments

We would appreciate your comments about this report or other matters regarding solid waste management in North Carolina. Thank you for your cooperation. (Attach additional sheets if needed.)

**\*\* This report must be sent to the Regional Waste Management Specialist for your area.\*\***

**CERTIFICATION:** I certify that the information provided is an accurate representation of the activity at this facility.

Signature:  Date: 7-13-04  
Name Jack Davis Phone 828-668-3235  
(print legibly)

**State of North Carolina**  
 Department of Environment and Natural Resources  
 Division of Waste Management  
**INDUSTRIAL WASTE LANDFILL**  
**ANNUAL REPORT**  
 FOR THE PERIOD OF JULY 1, 2004 - JUNE 30, 2005

COLLINS & AIKMAN  
 PO BOX 669  
 OLD FORT, NC 28762

Permit: 5603 Id: P0093

Attn: JACK DAVIS

Phone: 8286683235

Fax: 8286683254

**If you have questions or require assistance in completing this report, contact your Regional Waste Management Specialist. According to (G.S. 130A-309D(b)) completed forms must be returned by August 1, 2005 and a copy of this report must be sent to the County Manager of each county from which waste was received. Please mail reports to your Regional Waste Management Specialist listed below.**

Al Hetzell  
 2090 US HWY 70  
 Swannanoa, NC 28778 (828) 296-4500

Tipping Fee \$ N/A /Ton (Attach a schedule of tipping fees if appropriate.)

1. Total waste landfilled at this facility during the period of July 1, 2004 through June 30, 2005. Indicate below tonnage received by county of waste origin. DO NOT include waste diverted from landfilling for recycling, reuse, mulching, or composting.

MONTH	TONS FROM site in <i>McDowell</i> COUNTY	TONS FROM site in COUNTY	TONS FROM site in COUNTY	TOTAL
July	385			
August	521			
September	632			
October	846			
November	594			
December	765			
January	546			
February	515			
March	525			
April	479			
May	391			
June	525			
<b>TOTAL</b>				

(Photocopy the Table and use when waste is received at this facility from more than three counties.)

2. Indicate types of disposal activity occurring at this facility. (Check all that apply.)

- Landfilling of industrial waste (specify waste) \_\_\_\_\_
- Landfilling of construction and demolition waste
- Landfilling of asbestos
- Landfilling of ash
- Landfilling of sludge
- Landfilling of other waste (specify) AUTOMATIVE CARPET TRIM WASTE

3. Indicate other types of activities occurring at this facility. (Check all that apply.)

- Yard waste composting or mulching
- Recycled material collection
- Shredding or grinding materials other than tires (specify) \_\_\_\_\_
- Other Activity (describe) \_\_\_\_\_

4. Are there SWANA or other certified operator(s) at this facility?

- Yes
- No

If yes, indicate the following: (Attach additional sheet if necessary.)

Name: \_\_\_\_\_  
 Certification type and expiration date: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Certification type and expiration date: \_\_\_\_\_

**Other Comments**

We would appreciate your comments about this report or other matters regarding solid waste management in North Carolina. Thank you for your cooperation. (Attach additional sheets if needed.)

**\*\*\*According to (G.S. 130A-309D(b))**

**This report must be sent to the Regional Waste Management Specialist for your area and a copy of this report must be sent to the County Manager of each county from which waste was received.**

**CERTIFICATION:** I certify that the information provided is an accurate representation of the activity at this facility.

Signature: Jack Davis Date: 7-18-05  
 Name Jack Davis Phone 828-668-3235  
 (print legibly)

# State of North Carolina

Department of Environment and Natural Resources  
Division of Waste Management

## INDUSTRIAL WASTE LANDFILL ANNUAL REPORT

FOR THE PERIOD OF JULY 1, 2006 - JUNE 30, 2007

Facility Name: Collins & Aikman Permit: 5603 ID: P0093  
Address: 1506 E. Main St., Old Fort  
State: N.C. Zip: 28762  
Contact: Jack Davis  
Phone: 828-668-3235  
Fax: 828-668-3254

If you have questions or require assistance in completing this report, contact your Regional Waste Management Specialist. According to (G.S. 130A-309D(b)) completed forms must be returned by August 1, 2007 and a copy of this report must be sent to the County Manager of each county from which waste was received.

Tipping Fee \$ 0.00 /Ton (Attach a schedule of tipping fees if appropriate.)

1. Total waste landfilled at this facility during the period of July 1, 2006 through June 30, 2007. Indicate below tonnage received by county of waste origin. DO NOT include waste diverted from landfilling for recycling, reuse, mulching, or composting.

MONTH	TONS FROM McDowell COUNTY	TONS FROM COUNTY	TONS FROM COUNTY	TOTAL
July	0.00			0.0
August	0.00			0.0
September	0.00			0.0
October	0.00			0.0
November	0.00			0.0
December	0.00			0.0
January	0.00			0.0
February	0.00			0.0
March	0.00			0.0
April	0.00			0.0
May	0.00			0.0
June	0.00			0
TOTAL	0.0	0	0	0.0

2. Indicate types of disposal activity occurring at this facility. (Check all that apply.)

- Landfilling of industrial waste (specify waste) Carpet only
- Landfilling of construction and demolition waste
- Landfilling of asbestos
- Landfilling of ash
- Landfilling of sludge
- Landfilling of other waste (specify) \_\_\_\_\_

3. Indicate other types of activities occurring at this facility. (Check all that apply.)

- Yard waste composting or mulching
- Recycled material collection
- Shredding or grinding materials other than tires (specify) \_\_\_\_\_
- Other Activity (describe) \_\_\_\_\_

4. Are there SWANA or other certified operator(s) at this facility?

- Yes                       No

If yes, indicate the following: (Attach additional sheet if necessary.)

Name: \_\_\_\_\_

Certification type and expiration date: \_\_\_\_\_

Name: \_\_\_\_\_

Certification type and expiration date: \_\_\_\_\_

5. Please provide the Emergency 911 Address of the facility:

Street1: \_\_\_\_\_  
(If needed) Street2: \_\_\_\_\_  
City: \_\_\_\_\_ State: NC Zip: \_\_\_\_\_

**\*\*\*According to (G.S. 130A-309D(b))**

**This report must be sent to the Regional Waste Management Specialist for your area and a copy of this report must be sent to the County Manager of each county from which waste was received.**

CERTIFICATION: I certify that the information provided is an accurate representation of the activity at this facility.

Signature: \_\_\_\_\_ Date: 07-13-07

Name Jack Davis Phone 828-668-3235

Email Address: olfjdav@colaik.com Website: n/a



**State of North Carolina**  
 Department of Environment and Natural Resources  
 Division of Waste Management  
**INDUSTRIAL WASTE LANDFILL**  
**Facility Annual Report**  
 For the period of **JULY 1, 2007-JUNE 30, 2008**

Facility Name: IACNA Permit: 56-03 ID: P0093  
 Address: Drawer 669 / 1506 E. Main St.  
 City: Old Fort State: NC Zip: 28762  
 Contact: Jack Davis  
 Phone Number: 8286683235 Fax: 8286683254 Email: jdavis01@iacna.com

If you have questions or require assistance in completing this report, contact your Regional Environmental Senior Specialist. According to (G. S. 130A-309.09D(b)) completed forms must be returned by August 1, 2008 and a copy of this report must be sent to the County Manager of each county from which waste was received.

1. Tipping Fee: \$ N/A /Ton (Attach a schedule of tipping fees if appropriate.)

2. Please report the longitude and latitude of your facility.

Longitude: N 35° 37.852' Latitude: W 82° 07.197'

Indicate method of collection: Other

3. Please provide the Emergency 911 Address of the facility:

Street 1: 1714 Parker Padgett Rd

Street 2: \_\_\_\_\_

City: Old Fort State: NC Zip: 28762

4. Indicate types of disposal activity occurring at this facility (Check all that apply).

- Landfilling of industrial waste (specify waste): \_\_\_\_\_
- Landfilling of construction and demolition waste
- Landfilling of asbestos
- Landfilling of ash
- Landfilling of sludge
- Landfilling of other waste (specify): Automotive Carpet Trim Waste

5. Indicate other types of activities occurring at this facility (Check all that apply).

- Recycled material collection
- Yard waste composting or mulching
- Shredding or grinding materials other than tires (specify): \_\_\_\_\_
- Other activity (describe): \_\_\_\_\_

6. Total waste landfilled at this facility during the period of July 1, 2007, through June 30, 2008. Indicate tonnage received by COUNTY of waste origin. DO NOT include waste diverted for recycling, reuse, mulching, or composting. Please list ALL counties from which you received waste.

Add Row

Tons From \Month	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
McDowell County	0	0	0	0	0	0	0	0	0	0	0	0	

Grand Total

7 Are there SWANA or other certified operator(s) at this facility?  Yes  No

If yes, indicate the following: (Attach additional sheet if necessary.)

Name: \_\_\_\_\_ Certification type and expiration date: \_\_\_\_\_

Name: \_\_\_\_\_ Certification type and expiration date: \_\_\_\_\_

Name: \_\_\_\_\_ Certification type and expiration date: \_\_\_\_\_

\*\*\*According to (G.S. 130A-309.09D(b))

This report must be sent to the Regional Environmental Senior Specialist for your area and a copy of this report must be sent to the County Manager of each county from which waste was received.

CERTIFICATION: I certify that the information provided is an accurate representation of the activity at this facility.

Signature: Jack Davis \_\_\_\_\_

Digitally signed by Jack Davis  
DN: cn=Jack Davis, o=SWANA, ou=SWANA, email=jack.davis@swana.com

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Email: \_\_\_\_\_



# State of North Carolina

Department of Environment and Natural Resources

Division of Waste Management

## INDUSTRIAL WASTE LANDFILL

### Facility Annual Report

For the period of JULY 1, 2008-JUNE 30, 2009

If you have questions or require assistance in completing this report, contact your Regional Environmental Senior Specialist. According to (G.S. 130A-309.09D(b)) completed forms must be returned by August 1, 2009 and a copy of this report must be sent to the County Manager of each county from which waste was received.

Facility Name: IAC (formerly Collins & Aikman) Permit: 5603-INDUS-1981 ID: P0093

Facility Website (URL): \_\_\_\_\_

Physical Address		Mailing Address	
Street 1: <u>1506 E Main St</u>		Street 1: <u>P.O. Box 669</u>	
Street 2: _____		Street 2: _____	
City: <u>Old Fort</u>		City: <u>Old Fort</u>	
State: <u>North Carolina</u> Zip: <u>28762</u>		State: <u>North Carolina</u> Zip: <u>28762</u>	

Facility Contact: Primary		Facility Contact: Secondary	
Name: <u>Jack Davis</u>		Name: <u>Steve Davis</u>	
Phone: <u>(828) 668-3235</u> Fax: <u>(828) 668-3254</u>		Phone: <u>(828) 668-3242</u> Fax: <u>(828) 668-3254</u>	
Email: <u>jdavis01@iacna.com</u>		Email: <u>sdavis@iacna.com</u>	

1. Tipping Fee: \$ 0.00 per Ton (Attach a schedule of tipping fees if appropriate.)

2. Indicate types of disposal activity occurring at this facility (Check all that apply).

- Landfilling of industrial waste (specify waste): \_\_\_\_\_
- Landfilling of construction and demolition waste
- Landfilling of asbestos
- Landfilling of ash
- Landfilling of sludge
- Landfilling of other waste (specify): automotive carpet trim waste

3. Indicate type and tonnage of material separated from received waste (recycling/recovery) which did not go into the landfill.

Material	Tons	Material	Tons	Material	Tons
Paper		Wood		Computer Equipment	
Cardboard		Glass		Televisions	
Aluminum Cans		PETE (#1) Plastic		Concrete/rubble/asphalt	
Steel Cans		HDPE (#2) Plastic		Contaminated Soils (for ADC)	
Other Metal		Other Plastic		Other <u>0</u>	
Other <u>0</u>		Other <u>0</u>		Other <u>0</u>	
<b>Total</b>					

4. Total waste landfilled at this facility during the period of July 1, 2008, through June 30, 2009. Indicate tonnage received by COUNTY of waste origin. DO NOT include waste diverted for recycling, reuse, mulching, or composting. Please list ALL counties from which you received waste.

Add Row

Tons From Month	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand Total													0.00

5. Are there SWANA or other certified operator(s) at this facility?  Yes  No

If yes, indicate the following: (Attach additional sheet if necessary.)

Name: \_\_\_\_\_ Certification type and expiration date: \_\_\_\_\_

Name: \_\_\_\_\_ Certification type and expiration date: \_\_\_\_\_

Name: \_\_\_\_\_ Certification type and expiration date: \_\_\_\_\_

\*\*\*According to (G.S. 130A-309.09D(b))

This report must be sent to the Regional Environmental Senior Specialist for your area and a copy of this report must be sent to the County Manager of each county from which waste was received.

CERTIFICATION: I certify that the information provided is an accurate representation of the activity at this facility.

Signature: Jack Davis

Digitally signed by Jack Davis  
DN: cn=Jack Davis, email=JDavis01@iacna.com, o=IACNA, co=NorthCaro, e=US  
Date: 2009.07.10 09:36:34 -0400

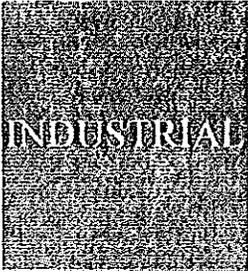
Date: Jul 10, 2009

Name: Jack Davis

Title: Plant Engineer

Phone Number: (828) 668-3235

Email: jdavis01@iacna.com



**State of North Carolina**  
 Department of Environment and Natural Resources  
 Division of Waste Management  
**INDUSTRIAL WASTE LANDFILL**  
**Facility Annual Report**  
 For the period of **JULY 1, 2009-JUNE 30, 2010**

If you have questions or require assistance in completing this report, contact your Regional Environmental Senior Specialist. According to (G.S. 130A-309.09D(b)) completed forms must be returned by August 1, 2010 and a copy of this report must be sent to the County Manager of each county from which waste was received.

Facility Name: INTERNATIONAL AUTOMOTIVE COMPONENTS GROUP, NA Permit: 56031-INDUS-2009 ID: P0093

Facility Website (URL): www.iacgroup.com

Physical Address		Mailing Address	
Street 1: <u>1506 E Main St.</u>		Street 1: <u>p.o. Box 669</u>	
Street 2: _____		Street 2: _____	
City: <u>Old Fort</u> County: <u>McDowell</u>		City: <u>Old Fort</u>	
State: <u>North Carolina</u> Zip: <u>28762</u>		State: <u>North Carolina</u> Zip: <u>28762</u>	
Primary Facility Contact Person		Billing Contact Person	
Name: <u>Steve Davis</u>		Name: <u>Mickie Morris</u>	
Phone: <u>(828) 668-3342</u> Fax: <u>(828) 668-3254</u>		Phone: <u>(828) 668-3207</u> Fax: <u>(828) 668-3261</u>	
Email: <u>sdavis@iacna.com</u>		Email: <u>mmorris@iacna.com</u>	

1. Tipping Fee: \$ 0.00 per Ton (Attach a schedule of tipping fees if appropriate.)

2. Indicate types of disposal activity occurring at this facility (Check all that apply).

- Landfilling of industrial waste (specify waste): \_\_\_\_\_
- Landfilling of construction and demolition waste
- Landfilling of asbestos
- Landfilling of ash
- Landfilling of sludge
- Landfilling of other waste (specify): automotive carpet trim waste

3. If the facility recycles or recovers from the incoming waste stream, indicate type and tonnage of materials which did not go into the landfill.

Material	Tons	Material	Tons	Material	Tons
Paper	0	Wood	0	Computer Equipment	0
Cardboard	0	Glass	0	Televisions	0
Aluminum Cans	0	PETE (#1) Plastic	0	Concrete/rubble/asphalt	0
Steel Cans	0	HDPE (#2) Plastic	0	Contaminated Soils (for ADC)	0
Other Metal	0	Other Plastic	0	Other <u>0</u>	0
Other <u>0</u>	0	Other <u>0</u>	0	Other <u>0</u>	0
Total					0



**APPENDIX B**  
**SOIL BORING LOGS**  
**AND**  
**WELL CONSTRUCTION DIAGRAMS**

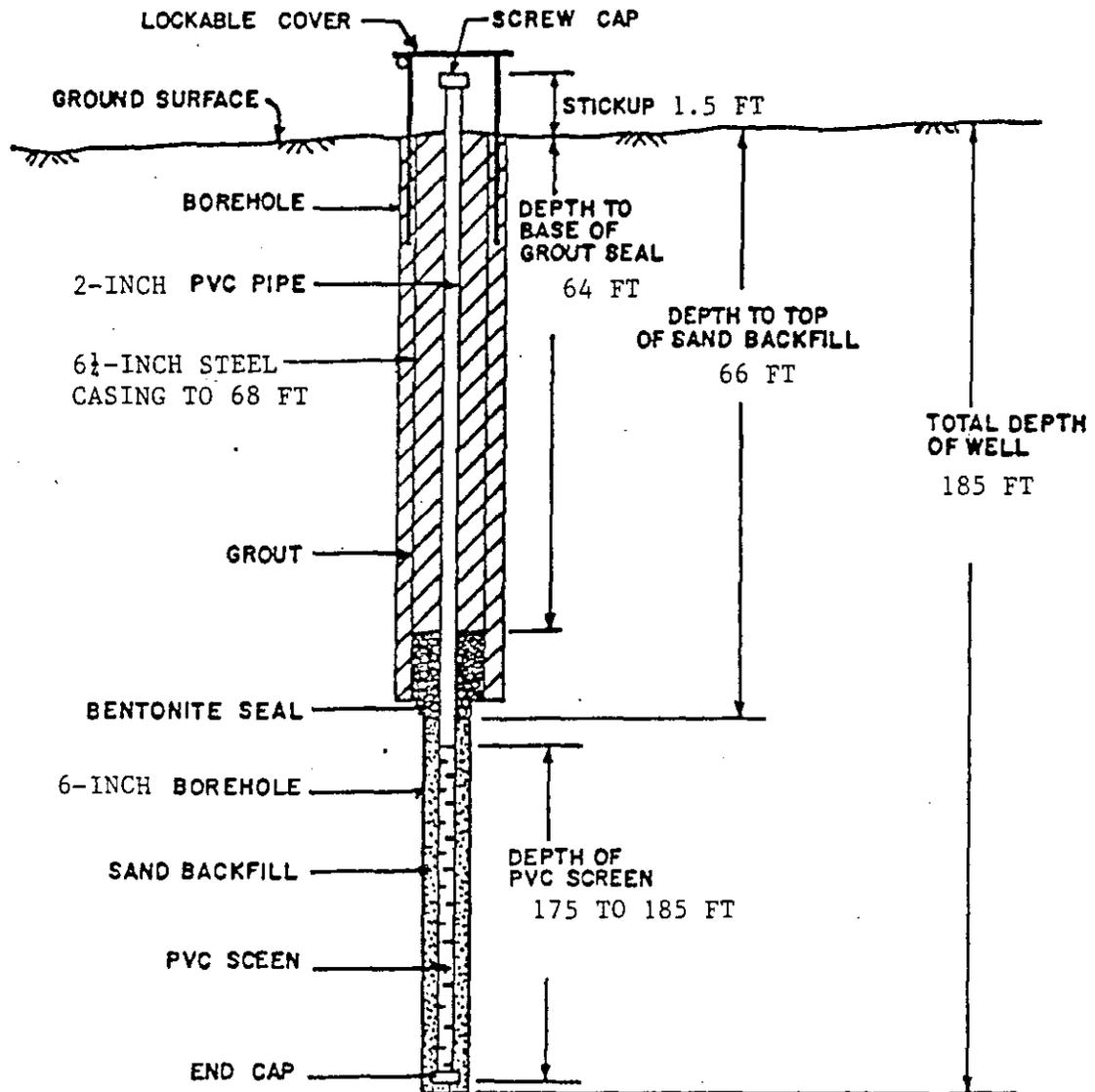
PROJECT: COLLINS & AIKMAN LANDFILL Old Fort, North Carolina		WELL LOG		MW-1A
PROJECT NO. : 1358-97-369	ELEVATION: 1578.3	NOTES:		
LOGGED BY: SRN	BORING DEPTH: 65.0 FEET			
DATE DRILLED: 5-9-97	WATER LEVEL: 1531.6			
DRILLING METHOD: 4-1/4" HSA	DRILL RIG: ATV B-57			

DEPTH (ft)	GRAPHIC LOG	Description & Remarks	SAMPLE NUMBER	SAMPLE	OVM (ppm)	SPR	ELEV.	WELL DIAGRAM	
		Grass Root Mat							
		RESIDUUM: Brown Fine Sandy SILT with rock fragments starting at 15 feet.	1	⊗		6			
5			2	⊗			573		
			3	⊗					
10			4	⊗			588		
			5	⊗			583		
15			6	⊗			558		
20			7	⊗			553		
25			8	⊗			548		
30			9	⊗			543		
35									

PROJECT: COLLINS & AIKMAN LANDFILL Old Fort, North Carolina		WELL LOG				MW-1A		
PROJECT NO. : 1356-97-369		ELEVATION: 1578.3		NOTES:				
LOGGED BY: SRN		BORING DEPTH: 85.0 FEET						
DATE DRILLED: 5-9-97		WATER LEVEL: 1531.8						
DRILLING METHOD: 4-1/4" HSA		DRILL RIG: ATV B-57						
DEPTH (ft)	GRAPHIC LOG	Description & Remarks	SAMPLE NUMBER	SAMPLE	OVM (ppm)	SPR	ELEV.	WELL DIAGRAM
40		Tan SILT, with Fine to Medium Sand, and rock fragments	10	☒			538	<p>2" PVC Schedule 40 Casing</p> <p>2" PVC Schedule 40 Screen, 0.01" Slot</p> <p>Filter Sand</p> <p>Bentonite Seal</p> <p>Grout</p>
45			11	☒			533	
50			12	☒			528	
55			13	☒			523	
60			14	☒			1518	
65			15	☒			1513	
70		Boring terminated at 85.0 feet. Water level was dry at TOB Water level was 59.2 at 35 min. Water level was 48.6 on 5/14/97.					508	

# MONITORING WELL INSTALLATION RECORD

JOB NAME COLLINS & AIKMAN JOB NUMBER 56-8609  
 WELL NUMBER MW-1 GROUND SURFACE ELEVATION APPROX 562 FT  
 LOCATION UPGRADIENT -- ABOUT 100 FT SOUTH OF S.R. 1240  
 INSTALLATION DATE 1-17-89

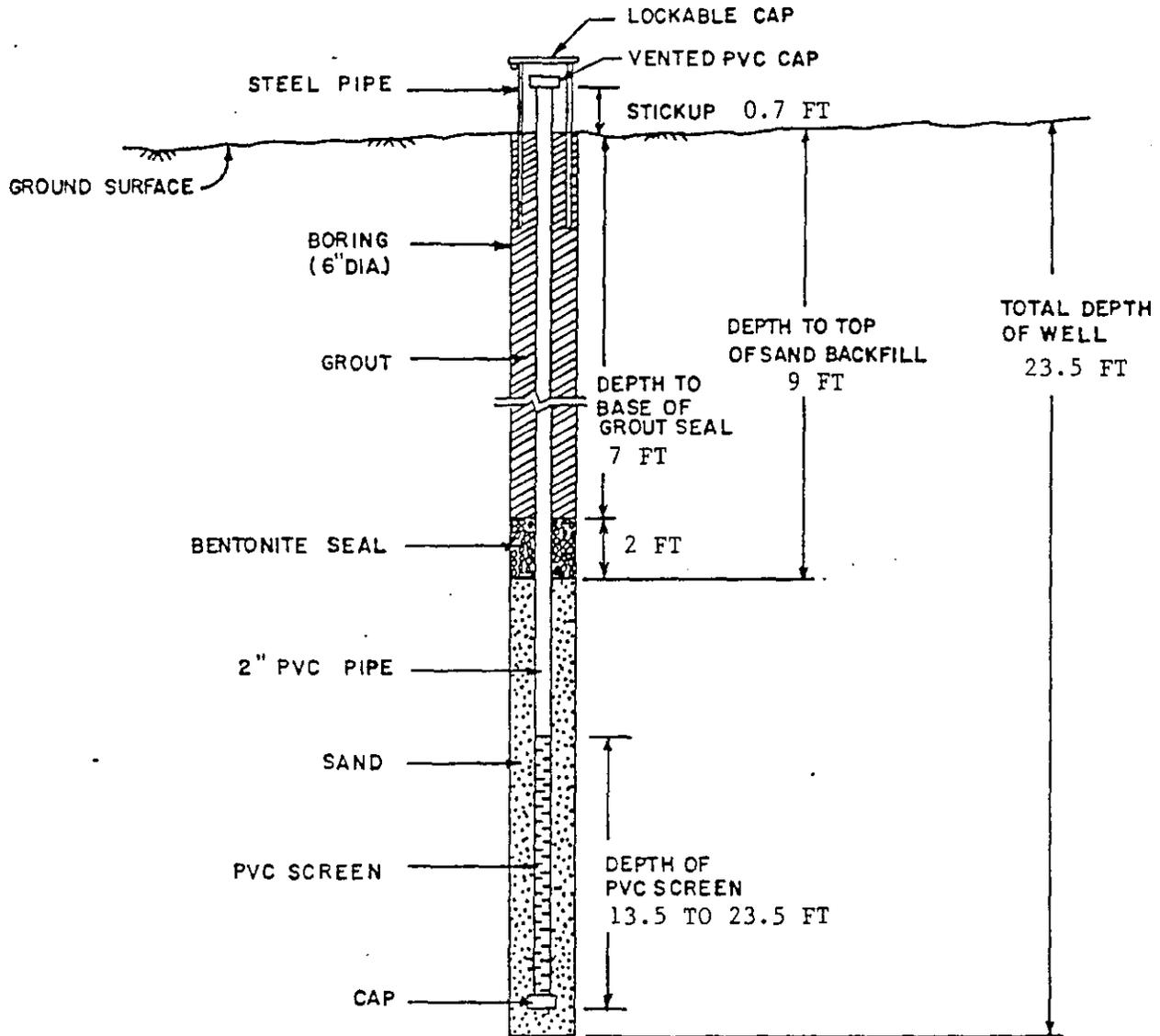


INSTALLED BY CALDWELL WELL DRILLING, ASHEVILLE, NC  
 GROUND-WATER LEVEL AT 56 FT ON 2-24-89

COLLINS & AIKMAN OLD FORT, NORTH CAROLINA		MONITORING WELL INSTALLATION RECORD MW-1
--	--	--

# GROUND-WATER MONITORING WELL INSTALLATION RECORD

JOB NAME COLLINS & AIKMAN JOB NUMBER 56-8609  
 WELL NUMBER MW-2 GROUND SURFACE ELEVATION APPROX 360 FT  
 LOCATION DOWNGRAIDENT -- DIKE AT SEDIMENT BASIN  
 INSTALLATION DATE 1-17-89



NOTE: ALL PVC PIPE JOINTS  
 HAVE SCREW CONNECTORS

INSTALLED BY CALDWELL WELL DRILLING, ASHEVILLE, NC  
 GROUND-WATER LEVEL AT 10.2 FT ON 1-23-89

COLLINS & AIKMAN  
 OLD FORT, NORTH CAROLINA

MONITORING WELL  
 INSTALLATION RECORD

MW-2

PROJECT NO.: 1358-97-369	ELEVATION: 1395.7	<b>NOTES:</b>
LOGGED BY: SRN	BORING DEPTH: 25.0 FEET	
DATE DRILLED: 5-8-97	WATER LEVEL: 1380.8	
DRILLING METHOD: 4-1/4" HSA	DRILL RIG: ATV B-57	

DEPTH (ft)	GRAPHIC LOG	Description & Remarks	SAMPLE NUMBER	SAMPLE	OVM (ppm)	SPR	ELEV.	WELL DIAGRAM
5		RESIDUUM: Stiff Brown Tan Micaceous Fine Sandy SILT, with manganese stains	1	☒		9		<p style="text-align: center;">WELL DIAGRAM</p> <p style="text-align: center;">2" PVC Schedule 40 Casing</p> <p style="text-align: center;">2" PVC Schedule 40 Screen, 0.01" Slot</p> <p style="text-align: center;">Filter Sand</p> <p style="text-align: center;">Bentonite Seal</p> <p style="text-align: center;">Grout</p>
			2	☒		11	1391	
			3	☒		9		
10			4	☒		9	388	
15			5	☒		11	1381	
20		Very Stiff to Very Hard White Tan Silty Fine to Coarse SAND, w/ rock fragments	6	☒		17	378	
25		Boring terminated at 25.0 feet. Water level was 15.0 at TOB. Water level was 15.5 at 14 hrs. Water level was 18.3 on 5/14/97.	7	☒		53	1371	
30							368	
35							1381	

PROJECT: COLLINS & AIKMAN LANDFILL Old Fort, North Carolina		WELL LOG			MW-4			
PROJECT NO.: 1356-97-369		ELEVATION: 1424.8		NOTES:				
LOGGED BY: SRN		BORING DEPTH: 25.0 FEET						
DATE DRILLED: 5-8-97		WATER LEVEL: 1414.0						
DRILLING METHOD: 4-1/4" HSA		DRILL RIG: ATV B-57						
DEPTH (ft)	GRAPHIC LOG	Description & Remarks	SAMPLE NUMBER	SAMPLE	OVM (ppm)	SPR	ELEV.	WELL DIAGRAM
0		Grass Root Mat	1	☒		28		<p>2" PVC Schedule 40 Casing</p> <p>Grout</p> <p>Bentonite Seal</p> <p>Filter Sand</p> <p>2" PVC Schedule 40 Screen, 0.01" Slot</p>
5		FILL: Very Stiff Brown Fine Sandy Clayey SILT	2	☒		5	420	
5.5		RESIDUUM: Soft to Stiff Red Brown Fine to Medium Clayey SILT; with rock fragments starting at 5.5 feet	3	☒		4		
10			4	☒		15	1415	
15		Very Hard to Very Stiff Brown Fine Sandy SILT, with large rock fragments	5	☒		62	1410	
20			6	☒		51	405	
25			7	☒		21	400	
25.0		Boring terminated at 25.0 feet. Water level was at 12.0 at TOB. Water level was 13.5 on 5/14/97.					395	
35							390	

Project No: 010057.01

## Log of Borehole: SB-1

Project: Old Fort Landfill, #56-03

Client: IAC Group NA

Driller: American Environmental

Location: Old Fort, NC

Geologist/Engineer: Robert Nowakowski

SUBSURFACE PROFILE				SAMPLE			Volatile Organic Concentration ppm 100 200 300 400	Well Data	Remarks
Depth	Symbol	Description	Elev.	Number	Type	Recovery			
0		Ground Surface	0						
0	•••••	FILL sand and gravel as cover							
1	•••••								
2	•••••		-2						
2	•••••	Carpet fibers, pieces and backing as FILL mixed with small amount of sand		1	SS	42"			
3	•••••								
4	•••••								
5	•••••	Carpet fibers, pieces and backing as FILL mixed with small amount of sand	-5				0		Bentonite chip seal
6	•••••								
7	•••••			2	SS	45"			
8	•••••								
9	•••••								
10	•••••	Carpet fibers, pieces and backing as FILL mixed with small amount of sand	-10				0		Groundwater not encountered
11	•••••								
12	•••••			3	SS	24"			
13	•••••								
14	•••••								
15	•••••		-15				0		
15		End of Borehole							
16									
17									
18									

Drill Method: Rotary / Push Rig

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

Drill Date: 12/07/10

Checked by: RJN

Hole Size: 2

Sheet: 1 of 1

Project No: 010057.01

## Log of Borehole: SB-2

Project: Old Fort Landfill, #56-03

Client: IAC Group NA

Driller: American Environmental

Location: Old Fort, NC

Geologist/Engineer: Robert Nowakowski

SUBSURFACE PROFILE				SAMPLE			Volatile Organic Concentration ppm 100 200 300 400	Well Data	Remarks
Depth	Symbol	Description	Elev.	Number	Type	Recovery			
0		Ground Surface	0						
0		FILL sand and gravel as cover							
1									
2			-2						
2		Carpet fibers, pieces and backing as FILL mixed with small amount of sand		1	SS	21"			
3									
4									
5			-5						
5		Carpet fibers, pieces and backing as FILL mixed with small amount of sand						Bentonite chip seal	
6									
7				2	SS	36"			
8									
9									
10			-10					Groundwater not encountered	
10		Carpet fibers, pieces and backing as FILL mixed with small amount of sand							
11									
12				3	SS	14"			
13									
14									
15			-15						
15		End of Borehole							
16									
17									
18									

Drill Method: Rotary / Push Rig

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

Drill Date: 12/07/10

Checked by: RJN

Hole Size: 2

Sheet: 1 of 1

Project No: 010057.01

## Log of Borehole: SB-3

Project: Old Fort Landfill, #56-03

Client: IAC Group NA

Driller: American Environmental

Location: Old Fort, NC

Geologist/Engineer: Robert Nowakowski

SUBSURFACE PROFILE				SAMPLE			Volatile Organic Concentration ppm 100 200 300 400	Well Data	Remarks
Depth	Symbol	Description	Elev.	Number	Type	Recovery			
0		Ground Surface	0						
0		FILL sand and gravel as cover							
1									
2			-2						
3		Carpet fibers, pieces and backing as FILL mixed with small amount of sand		1	SS	35"			
4									
5			-5						
6		Carpet fibers, pieces and backing as FILL mixed with small amount of sand							
7				2	SS	40"			
8									
9									
10			-10						
11		Carpet fibers, pieces and backing as FILL mixed with small amount of sand							
12				3	SS	8"			
13									
14									
15			-15						
16		End of Borehole							
17									
18									

Drill Method: Rotary / Push Rig

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

Drill Date: 12/07/10

Checked by: RJN

Hole Size: 2

Sheet: 1 of 1

Project No: 010057.01

## Log of Borehole: SB-4

Project: Old Fort Landfill, #56-03

Client: IAC Group NA

Driller: American Environmental

Location: Old Fort, NC

Geologist/Engineer: Robert Nowakowski

SUBSURFACE PROFILE				SAMPLE			Volatile Organic Concentration ppm 100 200 300 400	Well Data	Remarks
Depth	Symbol	Description	Elev.	Number	Type	Recovery			
0		Ground Surface	0						
0		FILL sand and gravel as cover							
1									
2			-2						
2		Carpet fibers, pieces and backing as FILL mixed with small amount of sand		1	SS	18"			
3									
4									
5		Carpet fibers, pieces and backing as FILL mixed with small amount of sand						Bentonite chip seal	
6									
7									
8				2	SS	26"			
9									
10									
10		Carpet fibers, pieces and backing as FILL mixed with small amount of sand						Groundwater not encountered	
11									
12									
13				3	SS	15"			
14									
15		End of Borehole							
16									
17									
18									

Drill Method: Rotary / Push Rig

RJN ENVIRONMENTAL, INC.  
34888 Garfield Rd,  
Fraser, MI 48026

Datum: NA

Drill Date: 12/07/10

Checked by: RJN

Hole Size: 2

Sheet: 1 of 1

Project No: 010057.01

## Log of Borehole: MthW-1

Project: Old Fort Landfill, #56-03

Client: IAC Group NA

Driller: American Environmental

Location: Old Fort, NC

Geologist/Engineer: Robert Nowakowski

SUBSURFACE PROFILE				SAMPLE			Volatile Organic Concentration ppm 100 200 300 400	Well Data	Remarks
Depth	Symbol	Description	Elev.	Number	Type	Recovery			
0		Ground Surface							
1	•	brown coarse sand FILL							Stick up piping
2	•								
3	•			1	SS				4-inch diameter PVC well casing
4	•								
5	•								
6	•	light brown sandy SILT, trace of rock fragments							
7	•			2	SS				
8	•								
9	•								
10	•								4-inch diameter PVC well screen
11	•								
12	•			3	SS				
13	•								
14	•								
15	•								
16	•								
17	•			4	SS				
18	•								
19	•								
20	•								
21	•								
22	•			5	SS				
23	•								
24	•								
25	•								
26	•	Stiff, brown coarse SAND, saturated at 26 feet bgl							
27	•			6	SS				
28	•								
29	•								
30	•								
31	•	End of Borehole							
32									
33									
34									
35									

Drill Method: Rotary / Push Rig

RJN ENVIRONMENTAL, INC.  
32310 Coventry Pl,  
Warren, MI 48093

Datum: NA

Drill Date: 12/06/10

Checked by: RJN

Hole Size: 4.5

Sheet: 1 of 1

Project No: 010057.01

## Log of Borehole: Abandonment of MthW-1

Project: Old Fort Landfill, #56-03

Client: IAC Group NA

Driller:

Location: Old Fort, NC

Geologist/Engineer: Robert Nowakowski

SUBSURFACE PROFILE				SAMPLE			Volatile Organic Concentration ppm 100 200 300 400	Well Data	Remarks
Depth	Symbol	Description	Elev.	Number	Type	Recovery			
0		Ground Surface							
0	•	brown coarse sand FILL							
1	•								
2	•								
3	•			1	SS				
4	•								
5	•	light brown sandy SILT, trace of rock fragments							
6	•			2	SS				
7	•								
8	•								
9	•								
10	•								
11	•								
12	•			3	SS				
13	•								
14	•								
15	•								
16	•			4	SS				
17	•								
18	•								
19	•								
20	•								
21	•								
22	•								
23	•			5	SS				
24	•								
25	•								
26	•	Stiff, brown coarse SAND, saturated at 26 feet bgl							
27	•								
28	•			6	SS				
29	•								
30	•								
31	•	End of Borehole							
32									
33									
34									
35									

Drill Method: Rotary / Push Rig Drill Date: abandoned 12/8/10 Hole Size: 5	<b>RJN ENVIRONMENTAL, INC.</b> 32310 Coventry Pl, Warren, MI 48093	Datum: NA Checked by: RJN Sheet: 1 of 1
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**APPENDIX C**  
**ANALYTICAL DATA SHEETS**

*COLLINS & AIKMAN*  
*TCLP DATA*

WASTE - Representative Samples of all  
Automotive Carpet Trim Landfilled

SAMPLE 1 - Moldable Nonwoven

SAMPLE 2 - Barrier Back

SAMPLE 3 - Polyback

Industrial & Environmental Analysts, Inc. (IEA)  
TCLP REGULATED  
BASE/NEUTRAL/ACID EXTRACTABLES SW-846 METHOD 8270

IEA Project Number: 2283-001  
 IEA Sample Number: 9606054  
 Client Name: Collins & Aikman  
 Client Project I.D.: Carpet REM  
 Sample Identification: QC Blank(SVB444)  
 Matrix: Water  
 TCLP Extraction Date: N/A  
 Date Received: N/A  
 Date Sampled: N/A  
 Date Extracted: 06/19/96  
 Date Analyzed: 06/20/96  
 Analysis By: Dixon  
 Dilution Factor: 1.0

Number	Compound	N.C. Regulatory Level (mg/L)	Quantitation Limit (mg/L)	Results Concentration (mg/L)
1	1,4-Dichlorobenzene	0.75	0.010	BQL
2	2,4-Dinitrotoluene	0.013	0.010	BQL
3	Hexachlorobutadiene	0.05	0.010	BQL
4	Hexachloroethane	0.30	0.010	BQL
5	Total Cresol	20	0.010	BQL
6	Nitrobenzene	0.20	0.010	BQL
7	Pentachlorophenol	10	0.050	BQL
8	Pyridine	0.50	0.010	BQL
9	2,4,5-Trichlorophenol	40	0.010	BQL
10	2,4,6-Trichlorophenol	0.20	0.010	BQL
11	Hexachlorobenzene	0.013	0.010	BQL

Comments:

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit

N/A = not Applicable

Corresponding Samples: TCLP617, 9606054-01, -01SPK, -02, -03

Filename: 0620407

FORM N.C. TCLP-8270R Rev. 081892

Industrial & Environmental Analysts, Inc. (IEA)  
TCLP REGULATED  
BASE/NEUTRAL/ACID EXTRACTABLES SW-846 METHOD 8270

IEA Project Number: 2283-001  
 IEA Sample Number: 9606054 Date Received: N/A  
 Client Name: Collins & Aikman Date Sampled: N/A  
 Client Project I.D.: Carpet REM Date Extracted: 06/19/96  
 Sample Identification: Method Blank(TCLP617) Date Analyzed: 06/20/96  
 Matrix: Leachate Analysis By: Dixon  
 TCLP Extraction Date: 06/14/96 Dilution Factor: 1.0

Number	Compound	N.C.	Quantitation	Results
		Regulatory Level (mg/L)	Limit (mg/L)	Concentration (mg/L)
1	1,4-Dichlorobenzene	0.75	0.010	BQL
2	2,4-Dinitrotoluene	0.013	0.010	BQL
3	Hexachlorobutadiene	0.05	0.010	BQL
4	Hexachloroethane	0.30	0.010	BQL
5	Total Cresol	20	0.010	BQL
6	Nitrobenzene	0.20	0.010	BQL
7	Pentachlorophenol	10	0.050	BQL
8	Pyridine	0.50	0.010	BQL
9	2,4,5-Trichlorophenol	40	0.010	BQL
10	2,4,6-Trichlorophenol	0.20	0.010	BQL
11	Hexachlorobenzene	0.013	0.010	BQL

Comments:

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit

N/A = Not Applicable

Corresponding Samples: 9606054-01, -02, -03

Industrial & Environmental Analysts, Inc. (IEA)  
TCLP REGULATED  
BASE/NEUTRAL/ACID EXTRACTABLES SW-846 METHOD 8270

IEA Project Number:	2283-001	Date Received:	06/04/96
IEA Sample Number:	9606054-01	Date Sampled:	06/03/96
Client Name:	Collins & Aikman	Date Extracted:	06/19/96
Client Project I.D.:	Carpet REM	Date Analyzed:	06/21/96
Sample Identification:	Moldable Nonwoven	Analysis By:	Van Lare
Matrix:	Leachate	Dilution Factor:	1.0
TCLP Extraction Date:	06/14/96		

Number	Compound	N.C. Regulatory Level (mg/L)	Quantitation Limit (mg/L)	Results Concentration (mg/L)
1	1,4-Dichlorobenzene	0.75	0.010	BQL
2	2,4-Dinitrotoluene	0.013	0.010	BQL
3	Hexachlorobutadiene	0.05	0.010	BQL
4	Hexachloroethane	0.30	0.010	BQL
5	Total Cresol	20	0.010	BQL
6	Nitrobenzene	0.20	0.010	BQL
7	Pentachlorophenol	10	0.050	BQL
8	Pyridine	0.50	0.010	BQL
9	2,4,5-Trichlorophenol	40	0.010	BQL
10	2,4,6-Trichlorophenol	0.20	0.010	BQL
11	Hexachlorobenzene	0.013	0.010	BQL

Comments:

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit

Industrial & Environmental Analysts, Inc. (IEA)  
TCLP REGULATED  
BASE/NEUTRAL/ACID EXTRACTABLES SW-846 METHOD 8270

IEA Project Number:	2283-001	Date Received:	06/04/96
IEA Sample Number:	9606054-02	Date Sampled:	06/03/96
Client Name:	Collins & Aikman	Date Extracted:	06/19/96
Client Project I.D.:	Carpet REM	Date Analyzed:	06/21/96
Sample Identification:	Barrier Back	Analysis By:	Van Lare
Matrix:	Leachate	Dilution Factor:	1.0
TCLP Extraction Date:	06/14/96		

Number	Compound	N.C. Regulatory Level (mg/L)	Quantitation Limit (mg/L)	Results Concentration (mg/L)
1	1,4-Dichlorobenzene	0.75	0.010	BQL
2	2,4-Dinitrotoluene	0.013	0.010	BQL
3	Hexachlorobutadiene	0.05	0.010	BQL
4	Hexachloroethane	0.30	0.010	BQL
5	Total Cresol	20	0.010	BQL
6	Nitrobenzene	0.20	0.010	BQL
7	Pentachlorophenol	10	0.050	BQL
8	Pyridine	0.50	0.010	BQL
9	2,4,5-Trichlorophenol	40	0.010	BQL
10	2,4,6-Trichlorophenol	0.20	0.010	BQL
11	Hexachlorobenzene	0.013	0.010	BQL

**Comments:**

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit

Industrial & Environmental Analysts, Inc. (IEA)  
 TCLP REGULATED  
 BASE/NEUTRAL/ACID EXTRACTABLES SW-846 METHOD 8270

IEA Project Number: 2283-001  
 IEA Sample Number: 9606054-03  
 Client Name: Collins & Aikman  
 Client Project I.D.: Carpet REM  
 Sample Identification: Polyback  
 Matrix: Leachate  
 TCLP Extraction Date: 06/14/96  
 Date Received: 06/04/96  
 Date Sampled: 06/03/96  
 Date Extracted: 06/19/96  
 Date Analyzed: 06/21/96  
 Analysis By: Van Lare  
 Dilution Factor: 2.0

Number	Compound	N.C. Regulatory Level (mg/L)	Quantitation Limit (mg/L)	Results Concentration (mg/L)
1	1,4-Dichlorobenzene	0.75	0.010	BQL
2	2,4-Dinitrotoluene	0.013	0.010	BQL
3	Hexachlorobutadiene	0.05	0.010	BQL
4	Hexachloroethane	0.30	0.010	BQL
5	Total Cresol	20	0.010	BQL
6	Nitrobenzene	0.20	0.010	BQL
7	Pentachlorophenol	10	0.050	BQL
8	Pyridine	0.50	0.010	BQL
9	2,4,5-Trichlorophenol	40	0.010	BQL
10	2,4,6-Trichlorophenol	0.20	0.010	BQL
11	Hexachlorobenzene	0.013	0.010	BQL

Comments:

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit

Sample was diluted due to the high concentration of non-target compounds present

Industrial & Environmental Analysts, Inc. (IEA)  
TCLP SEMIVOLATILE MATRIX SPIKEIEA Project No.: 2283-001  
IEA Sample ID: 9606054-01SPK  
Date Extracted: 06/19/96  
Date Analyzed: 06/24/96

COMPOUND	QUANTITATION LIMIT (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS % REC #
Pyridine	0.010	BQL	63
1,4-Dichlorobenzene	0.010	BQL	70
Total Cresol	0.010	BQL	73
Hexachloroethane	0.010	BQL	64
Nitrobenzene	0.010	BQL	72
Hexachlorobutadiene	0.010	BQL	72
2,4,6-Trichlorophenol	0.010	BQL	87
2,4,5-Trichlorophenol	0.010	BQL	87
2,4-Dinitrotoluene	0.010	BQL	67
Hexachlorobenzene	0.010	BQL	66
Pentachlorophenol	0.050	BQL	9

## Comments:

BQL = Below Quantitation Limit

Industrial & Environmental Analysts, Inc. (IEA)  
 Level 2 Metals Results Report  
 TCLP METALS REGULATED

IEA Project #: 2283 001  
 IEA Sample #: 960605401  
 Client Name: Collins & Aikman  
 Client Proj. I.D.: CARPET REM  
 Sample I.D.: MOLDABLE NONWOVEN

Matrix: LEACHATE  
 Date Received: 06/04/96  
 Date Sampled: 06/03/96  
 TCLP Extraction: 06/14/96

Parameter	Method	N.C.		Result	Date	Date	IEA	Prep
		Regulatory Level	Quant Limit					
ARSENIC	SW846 6010	500	50.0	BQL	06/19/96	06/19/96	JDJ	R6090 06199601P
BARIUM	SW846 6010	10000	1000	BQL	06/19/96	06/19/96	JDJ	R6090 06199601P
CADMIUM	SW846 6010	100	10.0	BQL	06/19/96	06/19/96	JDJ	R6090 06199601P
CHROMIUM	SW846 6010	500	50.0	BQL	06/19/96	06/19/96	JDJ	R6090 06199601P
LEAD	SW846 6010	500	50.0	BQL	06/19/96	06/19/96	JDJ	R6090 06199601P
MERCURY	SW846 7470	20	2.00	BQL	06/20/96	06/21/96	PW	R6108 06209601H
SELENIUM	SW846 7740	100	10.0	BQL	06/19/96	06/19/96	MLH	R6077 06199601F
SILVER	SW846 6010	500	50.0	BQL	06/19/96	06/19/96	JDJ	R6090 06199601P

Comments:

Industrial & Environmental Analysts, Inc. (IEA)  
 Level 2 Metals Results Report  
 TCLP METALS REGULATED

IEA Project #: 2283 001  
 IEA Sample #: 960605402  
 Client Name: Collins & Aikman  
 Client Proj. I.D.: CARPET REM  
 Sample I.D.: BARRIER BACK

Matrix: LEACHATE  
 Date Received: 06/04/96  
 Date Sampled: 06/03/96  
 TCLP Extraction: 06/14/96

Parameter	Method	N.C.		Result ( ug/l)	Date Prepared	Date Analyzed	Analyst	IEA Run	Prep Batch
		Regulatory Level	Quant Limit						
ARSENIC	SW846 6010	500	50.0	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P
BARIUM	SW846 6010	10000	1000	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P
CADMIUM	SW846 6010	100	10.0	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P
CHROMIUM	SW846 6010	500	50.0	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P
LEAD	SW846 6010	500	50.0	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P
MERCURY	SW846 7470	20	2.00	BQL	06/20/96	06/21/96	PW	R6108	06209601H
SELENIUM	SW846 7740	100	10.0	BQL	06/19/96	06/19/96	MLH	R6077	06199601F
SILVER	SW846 6010	500	50.0	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P

Comments:

Industrial & Environmental Analysts, Inc. (IEA)  
 Level 2 Metals Results Report  
 TCLP METALS REGULATED

IEA Project #: 2283 001  
 IEA Sample #: 960605403  
 Client Name: Collins & Aikman  
 Client Proj. I.D.: CARPET REM  
 Sample I.D.: POLYBACK

Matrix: LEACHATE  
 Date Received: 06/04/96  
 Date Sampled: 06/03/96  
 TCLP Extraction: 06/14/96

Parameter	Method	N.C.		Result ( ug/l)	Date Prepared	Date Analyzed	Analyst	IEA Run	Prep Batch
		Regulatory Level	Quant Limit						
ARSENIC	SW846 6010	500	50.0	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P
BARIUM	SW846 6010	10000	1000	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P
CADMIUM	SW846 6010	100	10.0	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P
CHROMIUM	SW846 6010	500	50.0	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P
LEAD	SW846 6010	500	50.0	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P
MERCURY	SW846 7470	20	2.00	BQL	06/20/96	06/21/96	PW	R6108	06209601H
SELENIUM	SW846 7740	100	10.0	BQL	06/19/96	06/19/96	MLH	R6077	06199601F
SILVER	SW846 6010	500	50.0	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P

Comments:

Industrial & Environmental Analysts, Inc. (IEA)  
Level 2 Metals Results Report  
PREPARATION BLANKS

IEA Project #: 2283 001  
Matrix: LEACHATE  
Client Name: Collins & Aikman  
Client Proj. I.D.: CARPET REM  
Sample Number: PBW 06199601F

Parameter	Method	Quant Limit	Result (ug/l)	Date Prepared	Date Analyzed	Analyst	IEA Run	Prep Batch
SELENIUM	SW846 7740	10.0	BQL	06/19/96	06/19/96	MLH	R6077	06199601F

Corresponding Samples:  
960605401, 960605402, 960605403

Comments:

Industrial & Environmental Analysts, Inc. (IEA)  
 Level 2 Metals Results Report  
 PREPARATION BLANKS

IEA Project #: 2283 001

Matrix: LEACHATE

Client Name: Collins & Aikman

Client Proj. I.D.: CARPET REM

Sample Number: PBW 06199601P

Parameter	Method	Quant Limit	Result (ug/l )	Date Prepared	Date Analyzed	Analyst	IEA Run	Prep Batch
ARSENIC	SW846 6010	50.0	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P
BARIUM	SW846 6010	1000	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P
CADMIUM	SW846 6010	10.0	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P
CHROMIUM	SW846 6010	50.0	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P
LEAD	SW846 6010	50.0	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P
SILVER	SW846 6010	50.0	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P

Corresponding Samples:

960605401, 960605402, 960605403, 960628001, 960628002, 960628003,  
 960628004

Comments:

Industrial & Environmental Analysts, Inc. (IEA)  
Level 2 Metals Results Report  
PREPARATION BLANKS

IEA Project #: 2283\_001

Matrix: LEACHATE

Client Name: Collins & Aikman

Client Proj. I.D.: CARPET REM

Sample Number: PBW 06209601H

Parameter	Method	Quant Limit	Result (ug/l )	Date Prepared	Date Analyzed	IEA Analyst	Prep Run Batch
MERCURY	SW846 7470	2.00	BQL	06/20/96	06/21/96	PW	R6108 06209601H

Corresponding Samples:

960605401, 960605402, 960605403, 960628001, 960628002, 960628003,  
960628004

Comments:

Industrial & Environmental Analysts, Inc. (IEA)  
Level 2 Metals Results Report  
PREPARATION BLANKS

IEA Project #: 2283 001

Matrix: LEACHATE

Client Name: Collins & Aikman

Client Proj. I.D.: CARPET REM

Sample Number: TB617 06199601F

Parameter	Method	Quant Limit	Result (ug/l )	Date Prepared	Date Analyzed	IEA Analyst	Prep Run	Batch
SELENIUM	SW846 7740	10.0	BQL	06/19/96	06/19/96	MLH	R6077	06199601F

Corresponding Samples:

960605401, 960605402, 960605403

Comments:

Industrial & Environmental Analysts, Inc. (IEA)  
Level 2 Metals Results Report  
PREPARATION BLANKS

IEA Project #: 2283\_001

Matrix: LEACHATE

Client Name: Collins & Aikman

Client Proj. I.D.: CARPET REM

Sample Number: TB617 06199601P

Parameter	Method	Quant Limit	Result (ug/l )	Date Prepared	Date Analyzed	Analyst	IEA Run	Prep Batch
ARSENIC	SW846 6010	50.0	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P
BARIUM	SW846 6010	1000	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P
CADMIUM	SW846 6010	10.0	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P
CHROMIUM	SW846 6010	50.0	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P
LEAD	SW846 6010	50.0	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P
SILVER	SW846 6010	50.0	BQL	06/19/96	06/19/96	JDJ	R6090	06199601P

Corresponding Samples:

960605401, 960605402, 960605403, 960628001, 960628002, 960628003,  
960628004

Comments:

Industrial & Environmental Analysts, Inc. (IEA)  
Level 2 Metals Results Report  
PREPARATION BLANKS

IEA Project #: 2283\_001  
Matrix: LEACHATE  
Client Name: Collins & Aikman  
Client Proj. I.D.: CARPET REM  
Sample Number: TB617 06209601H

Parameter	Method	Quant Limit	Result (ug/l )	Date Prepared	Date Analyzed	Analyst	IEA Run	Prep Batch
MERCURY	SW846 7470	2.00	BQL	06/20/96	06/21/96	PW	R6108	06209601H

Corresponding Samples:

960605401, 960605402, 960605403, 960628001, 960628002, 960628003,  
960628004

Comments:

Industrial & Environmental Analysts, Inc. (IEA)  
 Level 2 Metals Results Report  
 MATRIX SPIKE RESULTS

IEA Project #: 2283\_001  
 IEA Sample #: 960605402  
 Matrix: LEACHATE

## Matrix Spike Results ( ug/l)

Parameter	Method	SA	SR	SSR	%RCY	Date Analyzed	Samp Run	Spike Run
ARSENIC	SW846 6010	556.	BQL	437.	78.6	06/19/96	R6090	R6090
BARIUM	SW846 6010	11100	BQL	9130	82.1	06/19/96	R6090	R6090
CADMIUM	SW846 6010	111.	BQL	88.2	79.3	06/19/96	R6090	R6090
CHROMIUM	SW846 6010	556.	BQL	429.	77.2	06/19/96	R6090	R6090
LEAD	SW846 6010	556.	BQL	412.	74.2	06/19/96	R6090	R6090
MERCURY	SW846 7470	20.0	BQL	11.4	53.0	06/21/96	R6108	R6108
SELENIUM	SW846 7740	111.	BQL	84.4	76.0	06/19/96	R6077	R6077
SILVER	SW846 6010	556.	BQL	444.	79.9	06/19/96	R6090	R6090

$$\%R = ((SSR - SR) / SA) * 100$$

## Corresponding Samples:

960605401, 960605402, 960605403, 960628001, 960628002, 960628003,  
 960628004

Comments:

Industrial & Environmental Analysts, Inc. (IEA)  
 TCLP/2HE REGULATED GC/MS PURGEABLES  
 SW-846 METHOD 8240

IEA Project Number: 2283-001  
 IEA Sample Number: 9606054-01 Date Received: 06/04/96  
 Client Name: Collins & Alkman Date Sampled: 06/03/96  
 Client Project I.D.: Carpet Rem Date Analyzed: 06/25/96  
 Sample Identification: Moldable Nonwoven Analysis By: Moore  
 Matrix: Leachate Dilution Factor: 2.5  
 TCLP Extraction Date: 06/14/96

Number	Compound	N.C.	Quantitation	Results
		Regulatory Level (mg/L)	Limit (mg/L)	Concentration (mg/L)
1	Benzene	0.05	0.010	BQL
2	2-Butanone	20	0.020	BQL
3	Carbon tetrachloride	0.05	0.010	BQL
4	Chlorobenzene	10	0.010	BQL
5	Chloroform	0.60	0.010	BQL
6	1,2-Dichloroethane	0.05	0.010	BQL
7	1,1-Dichloroethene	0.07	0.010	BQL
8	Tetrachloroethene	0.07	0.010	BQL
9	Trichloroethene	0.05	0.010	BQL
10	Vinyl chloride	0.02	0.020	BQL

Comments:

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit

Sample diluted to prevent excessive foam while purging.

Industrial & Environmental Analysts, Inc. (IEA)  
 TCLP/ZHE REGULATED GC/MS PURGEABLES  
 SW-846 METHOD 8240

IEA Project Number: 2283-001  
 IEA Sample Number: 9606054-02  
 Client Name: Collins & Aikman  
 Client Project I.D.: Carpet Rem  
 Sample Identification: Barrier Back  
 Matrix: Leachate  
 TCLP Extraction Date: 06/14/96  
 Date Received: 06/04/96  
 Date Sampled: 06/03/96  
 Date Analyzed: 06/25/96  
 Analysis By: Moore  
 Dilution Factor: 1.0

Number	Compound	N.C.	Quantitation	Results
		Regulatory Level (mg/L)	Limit (mg/L)	Concentration (mg/L)
1	Benzene	0.05	0.010	BQL
2	2-Butanone	20	0.020	BQL
3	Carbon tetrachloride	0.05	0.010	BQL
4	Chlorobenzene	10	0.010	BQL
5	Chloroform	0.60	0.010	BQL
6	1,2-Dichloroethane	0.05	0.010	BQL
7	1,1-Dichloroethene	0.07	0.010	BQL
8	Tetrachloroethene	0.07	0.010	BQL
9	Trichloroethene	0.05	0.010	BQL
10	Vinyl chloride	0.02	0.020	BQL

Comments:

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit

Industrial & Environmental Analysts, Inc. (IEA)  
 TCLP/ZHE REGULATED GC/MS PURGEABLES  
 SW-846 METHOD 8240

IEA Project Number: 2283-001  
 IEA Sample Number: 9606054-03  
 Client Name: Collins & Aikman  
 Client Project I.D.: Carpet Rem  
 Sample Identification: Polyback  
 Matrix: Leachate  
 TCLP Extraction Date: 06/14/96  
 Date Received: 06/04/96  
 Date Sampled: 06/03/96  
 Date Analyzed: 06/25/96  
 Analysis By: Moore  
 Dilution Factor: 5.0

Number	Compound	N.C.	Quantitation	Results
		Regulatory Level (mg/L)	Limit (mg/L)	Concentration (mg/L)
1	Benzene	0.05	0.010	BQL
2	2-Butanone	20	0.020	BQL
3	Carbon tetrachloride	0.05	0.010	BQL
4	Chlorobenzene	10	0.010	BQL
5	Chloroform	0.60	0.010	BQL
6	1,2-Dichloroethane	0.05	0.010	BQL
7	1,1-Dichloroethene	0.07	0.010	BQL
8	Tetrachloroethene	0.07	0.010	BQL
9	Trichloroethene	0.05	0.010	BQL
10	Vinyl chloride	0.02	0.020	BQL

Comments:

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit

Sample diluted to prevent excessive foam while purging.

Industrial & Environmental Analysts, Inc. (IEA)  
 TCLP/ZHE REGULATED GC/MS PURGEABLES  
 SW-846 METHOD 8240

IEA Project Number: 2283-001  
 IEA Sample Number: 9606405-01 Date Received: N/A  
 Client Name: Collins & Aikman Date Sampled: N/A  
 Client Project I.D.: Carpet Rem Date Analyzed: 06/20/96  
 Sample Identification: ZHE BLK 771 Analysis By: Moore  
 Matrix: Leachate Dilution Factor: 1.0  
 TCLP Extraction Date: 06/14/96

Number	Compound	N.C. Regulatory Level (mg/L)	Quantitation Limit (mg/L)	Results Concentration (mg/L)
1	Benzene	0.05	0.010	BQL
2	2-Butanone	20	0.020	BQL
3	Carbon tetrachloride	0.05	0.010	BQL
4	Chlorobenzene	10	0.010	BQL
5	Chloroform	0.60	0.010	BQL
6	1,2-Dichloroethane	0.05	0.010	BQL
7	1,1-Dichloroethene	0.07	0.010	BQL
8	Tetrachloroethene	0.07	0.010	BQL
9	Trichloroethene	0.05	0.010	BQL
10	Vinyl chloride	0.02	0.020	BQL

Comments:

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit

N/A = Not Applicable

Corresponding Samples: 9606054-01, 02, 03

Filename: 0620111

Industrial & Environmental Analysts, Inc. (IEA)  
 TCLP/EHE REGULATED GC/MS PURGEABLES  
 SW-846 METHOD 8240

IEA Project Number: 2283-001  
 IEA Sample Number: 9606054 Date Received: N/A  
 Client Name: Collins & Aikman Date Sampled: N/A  
 Client Project I.D.: Carpet Rem Date Analyzed: 06/25/96  
 Sample Identification: QC Blank (VBLK5Y) Analysis By: Moore  
 Matrix: Water Dilution Factor: 1.0  
 TCLP Extraction Date: N/A

Number	Compound	N.C. Regulatory Level (mg/L)	Quantitation Limit (mg/L)	Results Concentration (mg/L)
1	Benzene	0.05	0.010	BQL
2	2-Butanone	20	0.020	BQL
3	Carbon tetrachloride	0.05	0.010	BQL
4	Chlorobenzene	10	0.010	BQL
5	Chloroform	0.60	0.010	BQL
6	1,2-Dichloroethane	0.05	0.010	BQL
7	1,1-Dichloroethene	0.07	0.010	BQL
8	Tetrachloroethene	0.07	0.010	BQL
9	Trichloroethene	0.05	0.010	BQL
10	Vinyl chloride	0.02	0.020	BQL

Comments:

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit

N/A = Not Applicable

Corresponding Samples: 9606054-01, 02

Filename: 0625502

Industrial & Environmental Analysts, Inc. (IEA)  
 TCLP/2HE REGULATED GC/MS PURGEABLES  
 SW-846 METHOD 8240

IEA Project Number: 2283-001  
 IEA Sample Number: 9606054  
 Client Name: Collins & Aikman  
 Client Project I.D.: Carpet Rem  
 Sample Identification: QC Blank (VBLKXB)  
 Matrix: Water  
 TCLP Extraction Date: N/A  
 Date Received: N/A  
 Date Sampled: N/A  
 Date Analyzed: 06/25/96  
 Analysis By: Moore  
 Dilution Factor: 1.0

Number	Compound	N.C. Regulatory Level (mg/L)	Quantitation Limit (mg/L)	Results Concentration (mg/L)
1	Benzene	0.05	0.010	BQL
2	2-Butanone	20	0.020	BQL
3	Carbon tetrachloride	0.05	0.010	BQL
4	Chlorobenzene	10	0.010	BQL
5	Chloroform	0.60	0.010	BQL
6	1,2-Dichloroethane	0.05	0.010	BQL
7	1,1-Dichloroethene	0.07	0.010	BQL
8	Tetrachloroethene	0.07	0.010	BQL
9	Trichloroethene	0.05	0.010	BQL
10	Vinyl chloride	0.02	0.020	BQL

Comments:

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit

N/A = Not Applicable

Corresponding Samples: 9606054-03

Filename: 0625K02

Industrial & Environmental Analysts, Inc. (IEA)  
 TCLP/ZHE REGULATED GC/MS PURGEABLES  
 SW-846 METHOD 8240

IEA Project Number: 2283-001  
 IEA Sample Number: 9606054 Date Received: N/A  
 Client Name: Collins & Aikman Date Sampled: N/A  
 Client Project I.D.: Carpet Rem Date Analyzed: 06/25/96  
 Sample Identification: QC Blank (VBLK5Z) Analysis By: Collins  
 Matrix: Water Dilution Factor: 1.0  
 TCLP Extraction Date: N/A

Number	Compound	N.C. Regulatory Level (mg/L)	Quantitation Limit (mg/L)	Results Concentration (mg/L)
1	Benzene	0.05	0.010	BQL
2	2-Butanone	20	0.020	BQL
3	Carbon tetrachloride	0.05	0.010	BQL
4	Chlorobenzene	10	0.010	BQL
5	Chloroform	0.60	0.010	BQL
6	1,2-Dichloroethane	0.05	0.010	BQL
7	1,1-Dichloroethene	0.07	0.010	BQL
8	Tetrachloroethene	0.07	0.010	BQL
9	Trichloroethane	0.05	0.010	BQL
10	Vinyl chloride	0.02	0.020	BQL

Comments:

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit

N/A = Not Applicable

Corresponding Samples: 9606054-01LS

Filename: 0625E03

Industrial & Environmental Analysts, Inc. (IEA)  
TCLP VOLATILE MATRIX SPIKE

IEA Project No.: 2283-001  
IEA Sample ID: 9606054-01LS  
Sample Identification: Moldable Nonwoven  
Analysis Date: 06/26/96

COMPOUND	QUANTITATION LIMIT (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS & REC #
Benzene	0.010	BQL	88
2-Butanone	0.020	BQL	75
Carbon tetrachloride	0.010	BQL	>100
Chlorobenzene	0.010	BQL	92
Chloroform	0.010	BQL	90
1,2-Dichloroethane	0.010	BQL	85
1,1-Dichloroethene	0.010	BQL	93
Tetrachloroethene	0.010	BQL	90
Trichloroethene	0.010	BQL	90
Vinyl chloride	0.020	BQL	92

Comments:

BQL = Below Quantitation Limit  
Corresponding Samples: 9606054-01, 02, 03



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Est. 1970

Bob Nowakowski, C.P.G.  
RJN Environmental, Inc.  
32310 Coventry Place

Warren, MI 48093

Report Summary  
Monday November 23, 2009  
Report Number: L432093  
Samples Received: 11/13/09  
Client Project: 010057  
Description: Old Fort Landfill

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

*John Hawkins*  
John Hawkins, ESC Representative

**Laboratory Certification Numbers**

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
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REPORT OF ANALYSIS

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

November 23, 2009

Date Received : November 13, 2009  
 Description : Old Fort Landfill  
 Sample ID : MW-3  
 Collected By : Robert Nowakowski  
 Collection Date : 11/09/09 10:45

ESC Sample # : L432093-01  
 Site ID : OLD FORT NC  
 Project # : 010057

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.20	ug/l	7470A	11/15/09	1
Arsenic	BDL	20.	ug/l	6010B	11/16/09	1
Barium	760	5.0	ug/l	6010B	11/16/09	1
Cadmium	BDL	5.0	ug/l	6010B	11/16/09	1
Chromium	56.	10.	ug/l	6010B	11/16/09	1
Lead	28.	5.0	ug/l	6010B	11/16/09	1
Selenium	BDL	20.	ug/l	6010B	11/16/09	1
Silver	BDL	10.	ug/l	6010B	11/16/09	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	11/16/09	1
Acrolein	BDL	50.	ug/l	8260B	11/16/09	1
Acrylonitrile	BDL	10.	ug/l	8260B	11/16/09	1
Benzene	BDL	1.0	ug/l	8260B	11/16/09	1
Bromobenzene	BDL	1.0	ug/l	8260B	11/16/09	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	11/16/09	1
Bromoform	BDL	1.0	ug/l	8260B	11/16/09	1
Bromomethane	BDL	5.0	ug/l	8260B	11/16/09	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	11/16/09	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	11/16/09	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	11/16/09	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	11/16/09	1
Chlorobenzene	BDL	1.0	ug/l	8260B	11/16/09	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	11/16/09	1
Chloroethane	BDL	5.0	ug/l	8260B	11/16/09	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	11/16/09	1
Chloroform	BDL	5.0	ug/l	8260B	11/16/09	1
Chloromethane	BDL	2.5	ug/l	8260B	11/16/09	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	11/16/09	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	11/16/09	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	11/16/09	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	11/16/09	1
Dibromomethane	BDL	1.0	ug/l	8260B	11/16/09	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/16/09	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/16/09	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/16/09	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	11/16/09	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	11/16/09	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	11/16/09	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	11/16/09	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/16/09	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/16/09	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/16/09	1

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit (PQL)



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Est. 1970

REPORT OF ANALYSIS

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

November 23, 2009

Date Received : November 13, 2009  
 Description : Old Fort Landfill  
 Sample ID : MW-3  
 Collected By : Robert Nowakowski  
 Collection Date : 11/09/09 10:45

ESC Sample # : L432093-01

Site ID : OLD FORT NC

Project # : 010057

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	11/16/09	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	11/16/09	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/16/09	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/16/09	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/16/09	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	11/16/09	1
Ethylbenzene	BDL	1.0	ug/l	8260B	11/16/09	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	8260B	11/16/09	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	11/16/09	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	11/16/09	1
2-Butanone (MEK)	BDL	10.	ug/l	8260B	11/16/09	1
Methylene Chloride	BDL	5.0	ug/l	8260B	11/16/09	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	11/16/09	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	11/16/09	1
Naphthalene	BDL	5.0	ug/l	8260B	11/16/09	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	11/16/09	1
Styrene	BDL	1.0	ug/l	8260B	11/16/09	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/16/09	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/16/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	1.0	ug/l	8260B	11/16/09	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	11/16/09	1
Toluene	BDL	5.0	ug/l	8260B	11/16/09	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/16/09	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/16/09	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	11/16/09	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	11/16/09	1
Trichloroethene	BDL	1.0	ug/l	8260B	11/16/09	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	11/16/09	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	11/16/09	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/16/09	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/16/09	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/16/09	1
Vinyl chloride	BDL	1.0	ug/l	8260B	11/16/09	1
Xylenes, Total	BDL	3.0	ug/l	8260B	11/16/09	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	11/16/09	1
Dibromofluoromethane	105.		% Rec.	8260B	11/16/09	1
4-Bromofluorobenzene	85.5		% Rec.	8260B	11/16/09	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.50	ug/l	8082	11/19/09	1
PCB 1221	BDL	0.50	ug/l	8082	11/19/09	1
PCB 1232	BDL	0.50	ug/l	8082	11/19/09	1
PCB 1242	BDL	0.50	ug/l	8082	11/19/09	1

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit (PQL)



YOUR LAB OF CHOICE

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REPORT OF ANALYSIS

November 23, 2009

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

Date Received : November 13, 2009  
 Description : Old Fort Landfill  
 Sample ID : MW-3  
 Collected By : Robert Nowakowski  
 Collection Date : 11/09/09 10:45

ESC Sample # : L432093-01

Site ID : OLD FORT NC

Project # : 010057

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
PCB 1248	BDL	0.50	ug/l	8082	11/19/09	1
PCB 1254	BDL	0.50	ug/l	8082	11/19/09	1
PCB 1260	BDL	0.50	ug/l	8082	11/19/09	1
PCBs Surrogates						
Decachlorobiphenyl	71.2		% Rec.	8082	11/19/09	1
Tetrachloro-m-xylene	71.5		% Rec.	8082	11/19/09	1
Base/Neutral Extractables						
Acenaphthene	BDL	1.0	ug/l	8270C	11/17/09	1
Acenaphthylene	BDL	1.0	ug/l	8270C	11/17/09	1
Anthracene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzidine	BDL	10.	ug/l	8270C	11/17/09	1
Benzo(a)anthracene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzo(a)pyrene	BDL	1.0	ug/l	8270C	11/17/09	1
Bis(2-chloroethoxy)methane	BDL	10.	ug/l	8270C	11/17/09	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	11/17/09	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	11/17/09	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	11/17/09	1
2-Chloronaphthalene	BDL	1.0	ug/l	8270C	11/17/09	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	11/17/09	1
Chrysene	BDL	1.0	ug/l	8270C	11/17/09	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	8270C	11/17/09	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	11/17/09	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	11/17/09	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	11/17/09	1
Fluoranthene	BDL	1.0	ug/l	8270C	11/17/09	1
Fluorene	BDL	1.0	ug/l	8270C	11/17/09	1
Hexachlorobenzene	BDL	1.0	ug/l	8270C	11/17/09	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	11/17/09	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	11/17/09	1
Hexachloroethane	BDL	10.	ug/l	8270C	11/17/09	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	8270C	11/17/09	1
Isophorone	BDL	10.	ug/l	8270C	11/17/09	1
Naphthalene	BDL	1.0	ug/l	8270C	11/17/09	1
Nitrobenzene	BDL	10.	ug/l	8270C	11/17/09	1
n-Nitrosodimethylamine	BDL	10.	ug/l	8270C	11/17/09	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	11/17/09	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	11/17/09	1
Phenanthrene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzylbutyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/l	8270C	11/17/09	1

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit (PQL)



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 Mt. Juliet, TN 37122  
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 Est. 1970

REPORT OF ANALYSIS

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

November 23, 2009

Date Received : November 13, 2009  
 Description : Old Fort Landfill  
 Sample ID : MW-3  
 Collected By : Robert Nowakowski  
 Collection Date : 11/09/09 10:45

ESC Sample # : L432093-01  
 Site ID : OLD FORT NC  
 Project # : 010057

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-n-butyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Diethyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Dimethyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Di-n-octyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Pyrene	BDL	1.0	ug/l	8270C	11/17/09	1
1,2,4-Trichlorobenzene	BDL	10.	ug/l	8270C	11/17/09	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	11/17/09	1
2-Chlorophenol	BDL	10.	ug/l	8270C	11/17/09	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	11/17/09	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	11/17/09	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	11/17/09	1
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	11/17/09	1
2-Nitrophenol	BDL	10.	ug/l	8270C	11/17/09	1
4-Nitrophenol	BDL	10.	ug/l	8270C	11/17/09	1
Pentachlorophenol	BDL	1.0	ug/l	8270C	11/17/09	1
Phenol	BDL	10.	ug/l	8270C	11/17/09	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	11/17/09	1
Surrogate Recovery						
2-Fluorophenol	41.3		% Rec.	8270C	11/17/09	1
Phenol-d5	23.9		% Rec.	8270C	11/17/09	1
Nitrobenzene-d5	28.8		% Rec.	8270C	11/17/09	1
2-Fluorobiphenyl	37.2		% Rec.	8270C	11/17/09	1
2,4,6-Tribromophenol	81.2		% Rec.	8270C	11/17/09	1
p-Terphenyl-d14	51.8		% Rec.	8270C	11/17/09	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Est. 1970

REPORT OF ANALYSIS

November 23, 2009

Bob Nowakowski, C.P.G.  
RJN Environmental, Inc.  
32310 Coventry Place  
Warren, MI 48093

ESC Sample # : L432093-02

Date Received : November 13, 2009  
Description : Old Fort Landfill

Site ID : OLD FORT NC

Sample ID : MW-2

Project # : 010057

Collected By : Robert Nowakowski  
Collection Date : 11/09/09 11:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.20	ug/l	7470A	11/15/09	1
Arsenic	BDL	20.	ug/l	6010B	11/16/09	1
Barium	340	5.0	ug/l	6010B	11/16/09	1
Cadmium	BDL	5.0	ug/l	6010B	11/16/09	1
Chromium	46.	10.	ug/l	6010B	11/16/09	1
Lead	19.	5.0	ug/l	6010B	11/16/09	1
Selenium	BDL	20.	ug/l	6010B	11/16/09	1
Silver	BDL	10.	ug/l	6010B	11/16/09	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	11/17/09	1
Acrolein	BDL	50.	ug/l	8260B	11/17/09	1
Acrylonitrile	BDL	10.	ug/l	8260B	11/17/09	1
Benzene	BDL	1.0	ug/l	8260B	11/17/09	1
Bromobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	11/17/09	1
Bromoform	BDL	1.0	ug/l	8260B	11/17/09	1
Bromomethane	BDL	5.0	ug/l	8260B	11/17/09	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	11/17/09	1
Chlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	11/17/09	1
Chloroethane	BDL	5.0	ug/l	8260B	11/17/09	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	11/17/09	1
Chloroform	BDL	5.0	ug/l	8260B	11/17/09	1
Chloromethane	BDL	2.5	ug/l	8260B	11/17/09	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	11/17/09	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	11/17/09	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	11/17/09	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	11/17/09	1
Dibromomethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	11/17/09	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	11/17/09	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/17/09	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/17/09	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/17/09	1

BDL - Below Detection Limit  
Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

November 23, 2009

Date Received : November 13, 2009  
 Description : Old Fort Landfill  
 Sample ID : MW-2  
 Collected By : Robert Nowakowski  
 Collection Date : 11/09/09 11:45

ESC Sample # : L432093-02

Site ID : OLD FORT NC

Project # : 010057

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	11/17/09	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	11/17/09	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/17/09	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/17/09	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/17/09	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	11/17/09	1
Ethylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	8260B	11/17/09	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	11/17/09	1
2-Butanone (MEK)	BDL	10.	ug/l	8260B	11/17/09	1
Methylene Chloride	BDL	5.0	ug/l	8260B	11/17/09	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	11/17/09	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	11/17/09	1
Naphthalene	BDL	5.0	ug/l	8260B	11/17/09	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Styrene	BDL	1.0	ug/l	8260B	11/17/09	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	1.0	ug/l	8260B	11/17/09	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	11/17/09	1
Toluene	BDL	5.0	ug/l	8260B	11/17/09	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
Trichloroethene	BDL	1.0	ug/l	8260B	11/17/09	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	11/17/09	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	11/17/09	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Vinyl chloride	BDL	1.0	ug/l	8260B	11/17/09	1
Xylenes, Total	BDL	3.0	ug/l	8260B	11/17/09	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	11/17/09	1
Dibromofluoromethane	117.		% Rec.	8260B	11/17/09	1
4-Bromofluorobenzene	80.9		% Rec.	8260B	11/17/09	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.50	ug/l	8082	11/19/09	1
PCB 1221	BDL	0.50	ug/l	8082	11/19/09	1
PCB 1232	BDL	0.50	ug/l	8082	11/19/09	1
PCB 1242	BDL	0.50	ug/l	8082	11/19/09	1

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit (PQL)



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

November 23, 2009

Date Received : November 13, 2009  
 Description : Old Fort Landfill  
 Sample ID : MW-2  
 Collected By : Robert Nowakowski  
 Collection Date : 11/09/09 11:45

ESC Sample # : L432093-02

Site ID : OLD FORT NC

Project # : 010057

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
PCB 1248	BDL	0.50	ug/l	8082	11/19/09	1
PCB 1254	BDL	0.50	ug/l	8082	11/19/09	1
PCB 1260	BDL	0.50	ug/l	8082	11/19/09	1
PCBs Surrogates						
Decachlorobiphenyl	75.3		% Rec.	8082	11/19/09	1
Tetrachloro-m-xylene	74.9		% Rec.	8082	11/19/09	1
Base/Neutral Extractables						
Acenaphthene	BDL	1.0	ug/l	8270C	11/17/09	1
Acenaphthylene	BDL	1.0	ug/l	8270C	11/17/09	1
Anthracene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzidine	BDL	10.	ug/l	8270C	11/17/09	1
Benzo(a)anthracene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzo(a)pyrene	BDL	1.0	ug/l	8270C	11/17/09	1
Bis(2-chloroethoxy)methane	BDL	10.	ug/l	8270C	11/17/09	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	11/17/09	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	11/17/09	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	11/17/09	1
2-Chloronaphthalene	BDL	1.0	ug/l	8270C	11/17/09	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	11/17/09	1
Chrysene	BDL	1.0	ug/l	8270C	11/17/09	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	8270C	11/17/09	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	11/17/09	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	11/17/09	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	11/17/09	1
Fluoranthene	BDL	1.0	ug/l	8270C	11/17/09	1
Fluorene	BDL	1.0	ug/l	8270C	11/17/09	1
Hexachlorobenzene	BDL	1.0	ug/l	8270C	11/17/09	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	11/17/09	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	11/17/09	1
Hexachloroethane	BDL	10.	ug/l	8270C	11/17/09	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	8270C	11/17/09	1
Isophorone	BDL	10.	ug/l	8270C	11/17/09	1
Naphthalene	BDL	1.0	ug/l	8270C	11/17/09	1
Nitrobenzene	BDL	10.	ug/l	8270C	11/17/09	1
n-Nitrosodimethylamine	BDL	10.	ug/l	8270C	11/17/09	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	11/17/09	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	11/17/09	1
Phenanthrene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzylbutyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/l	8270C	11/17/09	1

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

November 23, 2009

Date Received : November 13, 2009  
 Description : Old Fort Landfill  
 Sample ID : MW-2  
 Collected By : Robert Nowakowski  
 Collection Date : 11/09/09 11:45

ESC Sample # : L432093-02  
 Site ID : OLD FORT NC  
 Project # : 010057

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-n-butyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Diethyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Dimethyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Di-n-octyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Pyrene	BDL	1.0	ug/l	8270C	11/17/09	1
1,2,4-Trichlorobenzene	BDL	10.	ug/l	8270C	11/17/09	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	11/17/09	1
2-Chlorophenol	BDL	10.	ug/l	8270C	11/17/09	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	11/17/09	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	11/17/09	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	11/17/09	1
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	11/17/09	1
2-Nitrophenol	BDL	10.	ug/l	8270C	11/17/09	1
4-Nitrophenol	BDL	10.	ug/l	8270C	11/17/09	1
Pentachlorophenol	BDL	1.0	ug/l	8270C	11/17/09	1
Phenol	BDL	10.	ug/l	8270C	11/17/09	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	11/17/09	1
Surrogate Recovery						
2-Fluorophenol	30.2		% Rec.	8270C	11/17/09	1
Phenol-d5	20.6		% Rec.	8270C	11/17/09	1
Nitrobenzene-d5	41.7		% Rec.	8270C	11/17/09	1
2-Fluorobiphenyl	58.1		% Rec.	8270C	11/17/09	1
2,4,6-Tribromophenol	67.7		% Rec.	8270C	11/17/09	1
p-Terphenyl-d14	77.3		% Rec.	8270C	11/17/09	1

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit (PQL)  
 Note:  
 The reported analytical results relate only to the sample submitted.  
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REPORT OF ANALYSIS

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

November 23, 2009

Date Received : November 13, 2009  
 Description : Old Fort Landfill  
 Sample ID : MW-4  
 Collected By : Robert Nowakowski  
 Collection Date : 11/09/09 12:30

ESC Sample # : L432093-03  
 Site ID : OLD FORT NC  
 Project # : 010057

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.20	ug/l	7470A	11/15/09	1
Arsenic	BDL	20.	ug/l	6010B	11/16/09	1
Barium	320	5.0	ug/l	6010B	11/16/09	1
Cadmium	BDL	5.0	ug/l	6010B	11/16/09	1
Chromium	36.	10.	ug/l	6010B	11/16/09	1
Lead	20.	5.0	ug/l	6010B	11/16/09	1
Selenium	BDL	20.	ug/l	6010B	11/16/09	1
Silver	BDL	10.	ug/l	6010B	11/16/09	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	11/17/09	1
Acrolein	BDL	50.	ug/l	8260B	11/17/09	1
Acrylonitrile	BDL	10.	ug/l	8260B	11/17/09	1
Benzene	BDL	1.0	ug/l	8260B	11/17/09	1
Bromobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	11/17/09	1
Bromoform	BDL	1.0	ug/l	8260B	11/17/09	1
Bromomethane	BDL	5.0	ug/l	8260B	11/17/09	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	11/17/09	1
Chlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	11/17/09	1
Chloroethane	BDL	5.0	ug/l	8260B	11/17/09	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	11/17/09	1
Chloroform	BDL	5.0	ug/l	8260B	11/17/09	1
Chloromethane	BDL	2.5	ug/l	8260B	11/17/09	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	11/17/09	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	11/17/09	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	11/17/09	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	11/17/09	1
Dibromomethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	11/17/09	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	11/17/09	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/17/09	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/17/09	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/17/09	1

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit (PQL)



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Tax I.D. 62-0814289

Est. 1970

**YOUR LAB OF CHOICE**

REPORT OF ANALYSIS

November 23, 2009

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

ESC Sample # : L432093-03

Date Received : November 13, 2009  
 Description : Old Fort Landfill

Site ID : OLD FORT NC

Sample ID : MW-4

Project # : 010057

Collected By : Robert Nowakowski  
 Collection Date : 11/09/09 12:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	11/17/09	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	11/17/09	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/17/09	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/17/09	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/17/09	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	11/17/09	1
Ethylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	8260B	11/17/09	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	11/17/09	1
2-Butanone (MEK)	BDL	10.	ug/l	8260B	11/17/09	1
Methylene Chloride	BDL	5.0	ug/l	8260B	11/17/09	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	11/17/09	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	11/17/09	1
Naphthalene	BDL	5.0	ug/l	8260B	11/17/09	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Styrene	BDL	1.0	ug/l	8260B	11/17/09	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	1.0	ug/l	8260B	11/17/09	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	11/17/09	1
Toluene	BDL	5.0	ug/l	8260B	11/17/09	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
Trichloroethene	BDL	1.0	ug/l	8260B	11/17/09	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	11/17/09	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	11/17/09	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Vinyl chloride	BDL	1.0	ug/l	8260B	11/17/09	1
Xylenes, Total	BDL	3.0	ug/l	8260B	11/17/09	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	11/17/09	1
Dibromofluoromethane	115.		% Rec.	8260B	11/17/09	1
4-Bromofluorobenzene	80.8		% Rec.	8260B	11/17/09	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.50	ug/l	8082	11/21/09	1
PCB 1221	BDL	0.50	ug/l	8082	11/21/09	1
PCB 1232	BDL	0.50	ug/l	8082	11/21/09	1
PCB 1242	BDL	0.50	ug/l	8082	11/21/09	1

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit (PQL)



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 (615) 758-5858  
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 Est. 1970

REPORT OF ANALYSIS

November 23, 2009

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

Date Received : November 13, 2009  
 Description : Old Fort Landfill  
 Sample ID : MW-4  
 Collected By : Robert Nowakowski  
 Collection Date : 11/09/09 12:30

ESC Sample # : L432093-03  
 Site ID : OLD FORT NC  
 Project # : 010057

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
PCB 1248	BDL	0.50	ug/l	8082	11/21/09	1
PCB 1254	BDL	0.50	ug/l	8082	11/21/09	1
PCB 1260	BDL	0.50	ug/l	8082	11/21/09	1
PCBs Surrogates						
Decachlorobiphenyl	51.4		% Rec.	8082	11/21/09	1
Tetrachloro-m-xylene	49.0		% Rec.	8082	11/21/09	1
Base/Neutral Extractables						
Acenaphthene	BDL	1.0	ug/l	8270C	11/17/09	1
Acenaphthylene	BDL	1.0	ug/l	8270C	11/17/09	1
Anthracene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzidine	BDL	10.	ug/l	8270C	11/17/09	1
Benzo(a)anthracene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzo(a)pyrene	BDL	1.0	ug/l	8270C	11/17/09	1
Bis(2-chloroethoxy)methane	BDL	10.	ug/l	8270C	11/17/09	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	11/17/09	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	11/17/09	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	11/17/09	1
2-Chloronaphthalene	BDL	1.0	ug/l	8270C	11/17/09	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	11/17/09	1
Chrysene	BDL	1.0	ug/l	8270C	11/17/09	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	8270C	11/17/09	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	11/17/09	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	11/17/09	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	11/17/09	1
Fluoranthene	BDL	1.0	ug/l	8270C	11/17/09	1
Fluorene	BDL	1.0	ug/l	8270C	11/17/09	1
Hexachlorobenzene	BDL	1.0	ug/l	8270C	11/17/09	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	11/17/09	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	11/17/09	1
Hexachloroethane	BDL	10.	ug/l	8270C	11/17/09	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	8270C	11/17/09	1
Isophorone	BDL	10.	ug/l	8270C	11/17/09	1
Naphthalene	BDL	1.0	ug/l	8270C	11/17/09	1
Nitrobenzene	BDL	10.	ug/l	8270C	11/17/09	1
n-Nitrosodimethylamine	BDL	10.	ug/l	8270C	11/17/09	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	11/17/09	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	11/17/09	1
Phenanthrene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzylbutyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/l	8270C	11/17/09	1

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit(PQL)



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REPORT OF ANALYSIS

November 23, 2009

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

Date Received : November 13, 2009  
 Description : Old Fort Landfill  
 Sample ID : MW-4  
 Collected By : Robert Nowakowski  
 Collection Date : 11/09/09 12:30

ESC Sample # : L432093-03  
 Site ID : OLD FORT NC  
 Project # : 010057

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-n-butyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Diethyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Dimethyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Di-n-octyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Pyrene	BDL	1.0	ug/l	8270C	11/17/09	1
1,2,4-Trichlorobenzene	BDL	10.	ug/l	8270C	11/17/09	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	11/17/09	1
2-Chlorophenol	BDL	10.	ug/l	8270C	11/17/09	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	11/17/09	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	11/17/09	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	11/17/09	1
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	11/17/09	1
2-Nitrophenol	BDL	10.	ug/l	8270C	11/17/09	1
4-Nitrophenol	BDL	10.	ug/l	8270C	11/17/09	1
Pentachlorophenol	BDL	1.0	ug/l	8270C	11/17/09	1
Phenol	BDL	10.	ug/l	8270C	11/17/09	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	11/17/09	1
Surrogate Recovery						
2-Fluorophenol	34.5		% Rec.	8270C	11/17/09	1
Phenol-d5	21.4		% Rec.	8270C	11/17/09	1
Nitrobenzene-d5	50.8		% Rec.	8270C	11/17/09	1
2-Fluorobiphenyl	62.8		% Rec.	8270C	11/17/09	1
2,4,6-Tribromophenol	86.7		% Rec.	8270C	11/17/09	1
p-Terphenyl-d14	80.3		% Rec.	8270C	11/17/09	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 11/23/09 14:15 Printed: 11/23/09 14:16



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REPORT OF ANALYSIS

November 23, 2009

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

ESC Sample # : L432093-04

Date Received : November 13, 2009  
 Description : Old Fort Landfill

Site ID : OLD FORT NC

Sample ID : MW-1A

Project # : 010057

Collected By : Robert Nowakowski  
 Collection Date : 11/09/09 13:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.20	ug/l	7470A	11/16/09	1
Arsenic	BDL	20.	ug/l	6010B	11/16/09	1
Barium	330	5.0	ug/l	6010B	11/16/09	1
Cadmium	BDL	5.0	ug/l	6010B	11/16/09	1
Chromium	28.	10.	ug/l	6010B	11/16/09	1
Lead	17.	5.0	ug/l	6010B	11/16/09	1
Selenium	BDL	20.	ug/l	6010B	11/16/09	1
Silver	BDL	10.	ug/l	6010B	11/16/09	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	11/17/09	1
Acrolein	BDL	50.	ug/l	8260B	11/17/09	1
Acrylonitrile	BDL	10.	ug/l	8260B	11/17/09	1
Benzene	BDL	1.0	ug/l	8260B	11/17/09	1
Bromobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	11/17/09	1
Bromoform	BDL	1.0	ug/l	8260B	11/17/09	1
Bromomethane	BDL	5.0	ug/l	8260B	11/17/09	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	11/17/09	1
Chlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	11/17/09	1
Chloroethane	BDL	5.0	ug/l	8260B	11/17/09	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	11/17/09	1
Chloroform	BDL	5.0	ug/l	8260B	11/17/09	1
Chloromethane	BDL	2.5	ug/l	8260B	11/17/09	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	11/17/09	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	11/17/09	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	11/17/09	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	11/17/09	1
Dibromomethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	11/17/09	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	11/17/09	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/17/09	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/17/09	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/17/09	1

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit (PQL)



YOUR LAB OF CHOICE

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REPORT OF ANALYSIS

November 23, 2009

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

ESC Sample # : L432093-04

Date Received : November 13, 2009  
 Description : Old Fort Landfill

Site ID : OLD FORT NC

Sample ID : MW-1A

Project # : 010057

Collected By : Robert Nowakowski  
 Collection Date : 11/09/09 13:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	11/17/09	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	11/17/09	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/17/09	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/17/09	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/17/09	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	11/17/09	1
Ethylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	8260B	11/17/09	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	11/17/09	1
2-Butanone (MEK)	BDL	10.	ug/l	8260B	11/17/09	1
Methylene Chloride	BDL	5.0	ug/l	8260B	11/17/09	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	11/17/09	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	11/17/09	1
Naphthalene	BDL	5.0	ug/l	8260B	11/17/09	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Styrene	BDL	1.0	ug/l	8260B	11/17/09	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	1.0	ug/l	8260B	11/17/09	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	11/17/09	1
Toluene	BDL	5.0	ug/l	8260B	11/17/09	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
Trichloroethene	BDL	1.0	ug/l	8260B	11/17/09	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	11/17/09	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	11/17/09	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Vinyl chloride	BDL	1.0	ug/l	8260B	11/17/09	1
Xylenes, Total	BDL	3.0	ug/l	8260B	11/17/09	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	11/17/09	1
Dibromofluoromethane	99.7		% Rec.	8260B	11/17/09	1
4-Bromofluorobenzene	108.		% Rec.	8260B	11/17/09	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.50	ug/l	8082	11/21/09	1
PCB 1221	BDL	0.50	ug/l	8082	11/21/09	1
PCB 1232	BDL	0.50	ug/l	8082	11/21/09	1
PCB 1242	BDL	0.50	ug/l	8082	11/21/09	1

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit (PQL)



12065 Lebanon Rd.  
 Mt. Juliet, TN 37122  
 (615) 758-5858  
 1-800-767-5859  
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 Tax I.D. 62-0814289  
 Est. 1970

REPORT OF ANALYSIS

November 23, 2009

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

ESC Sample # : L432093-04

Date Received : November 13, 2009  
 Description : Old Fort Landfill

Site ID : OLD FORT NC

Sample ID : MW-1A

Project # : 010057

Collected By : Robert Nowakowski  
 Collection Date : 11/09/09 13:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
PCB 1248	BDL	0.50	ug/l	8082	11/21/09	1
PCB 1254	BDL	0.50	ug/l	8082	11/21/09	1
PCB 1260	BDL	0.50	ug/l	8082	11/21/09	1
PCBs Surrogates						
Decachlorobiphenyl	62.3		% Rec.	8082	11/21/09	1
Tetrachloro-m-xylene	58.3		% Rec.	8082	11/21/09	1
Base/Neutral Extractables						
Acenaphthene	BDL	1.0	ug/l	8270C	11/17/09	1
Acenaphthylene	BDL	1.0	ug/l	8270C	11/17/09	1
Anthracene	BDL	1.0	ug/l	8270C	11/17/09	1
Benidine	BDL	10.	ug/l	8270C	11/17/09	1
Benzo(a)anthracene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzo(a)pyrene	BDL	1.0	ug/l	8270C	11/17/09	1
Bis(2-chloroethoxy)methane	BDL	10.	ug/l	8270C	11/17/09	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	11/17/09	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	11/17/09	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	11/17/09	1
2-Chloronaphthalene	BDL	1.0	ug/l	8270C	11/17/09	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	11/17/09	1
Chrysene	BDL	1.0	ug/l	8270C	11/17/09	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	8270C	11/17/09	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	11/17/09	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	11/17/09	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	11/17/09	1
Fluoranthene	BDL	1.0	ug/l	8270C	11/17/09	1
Fluorene	BDL	1.0	ug/l	8270C	11/17/09	1
Hexachlorobenzene	BDL	1.0	ug/l	8270C	11/17/09	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	11/17/09	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	11/17/09	1
Hexachloroethane	BDL	10.	ug/l	8270C	11/17/09	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	8270C	11/17/09	1
Isophorone	BDL	10.	ug/l	8270C	11/17/09	1
Naphthalene	BDL	1.0	ug/l	8270C	11/17/09	1
Nitrobenzene	BDL	10.	ug/l	8270C	11/17/09	1
n-Nitrosodimethylamine	BDL	10.	ug/l	8270C	11/17/09	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	11/17/09	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	11/17/09	1
Phenanthrene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzylbutyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/l	8270C	11/17/09	1

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit (PQL)



12065 Lebanon Rd.  
 Mt. Juliet, TN 37122  
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

November 23, 2009

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

Date Received : November 13, 2009  
 Description : Old Fort Landfill  
 Sample ID : MW-1A  
 Collected By : Robert Nowakowski  
 Collection Date : 11/09/09 13:30

ESC Sample # : L432093-04

Site ID : OLD FORT NC

Project # : 010057

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-n-butyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Diethyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Dimethyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Di-n-octyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Pyrene	BDL	1.0	ug/l	8270C	11/17/09	1
1,2,4-Trichlorobenzene	BDL	10.	ug/l	8270C	11/17/09	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	11/17/09	1
2-Chlorophenol	BDL	10.	ug/l	8270C	11/17/09	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	11/17/09	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	11/17/09	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	11/17/09	1
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	11/17/09	1
2-Nitrophenol	BDL	10.	ug/l	8270C	11/17/09	1
4-Nitrophenol	BDL	10.	ug/l	8270C	11/17/09	1
Pentachlorophenol	BDL	1.0	ug/l	8270C	11/17/09	1
Phenol	BDL	10.	ug/l	8270C	11/17/09	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	11/17/09	1
Surrogate Recovery						
2-Fluorophenol	26.6		% Rec.	8270C	11/17/09	1
Phenol-d5	18.8		% Rec.	8270C	11/17/09	1
Nitrobenzene-d5	31.5		% Rec.	8270C	11/17/09	1
2-Fluorobiphenyl	51.4		% Rec.	8270C	11/17/09	1
2,4,6-Tribromophenol	74.0		% Rec.	8270C	11/17/09	1
p-Terphenyl-d14	82.3		% Rec.	8270C	11/17/09	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 11/23/09 14:15 Printed: 11/23/09 14:16



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REPORT OF ANALYSIS

November 23, 2009

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

ESC Sample # : L432093-05

Date Received : November 13, 2009  
 Description : Old Fort Landfill

Site ID : OLD FORT NC

Sample ID : MW-1

Project # : 010057

Collected By : Robert Nowakowski  
 Collection Date : 11/09/09 14:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.20	ug/l	7470A	11/16/09	1
Arsenic	BDL	20.	ug/l	6010B	11/17/09	1
Barium	BDL	5.0	ug/l	6010B	11/17/09	1
Cadmium	BDL	5.0	ug/l	6010B	11/17/09	1
Chromium	BDL	10.	ug/l	6010B	11/17/09	1
Lead	BDL	5.0	ug/l	6010B	11/17/09	1
Selenium	BDL	20.	ug/l	6010B	11/17/09	1
Silver	BDL	10.	ug/l	6010B	11/17/09	1
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	11/17/09	1
Acrolein	BDL	50.	ug/l	8260B	11/17/09	1
Acrylonitrile	BDL	10.	ug/l	8260B	11/17/09	1
Benzene	BDL	1.0	ug/l	8260B	11/17/09	1
Bromobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	11/17/09	1
Bromoform	BDL	1.0	ug/l	8260B	11/17/09	1
Bromomethane	BDL	5.0	ug/l	8260B	11/17/09	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	11/17/09	1
Chlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	11/17/09	1
Chloroethane	BDL	5.0	ug/l	8260B	11/17/09	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	11/17/09	1
Chloroform	BDL	5.0	ug/l	8260B	11/17/09	1
Chloromethane	BDL	2.5	ug/l	8260B	11/17/09	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	11/17/09	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	11/17/09	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	11/17/09	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	11/17/09	1
Dibromomethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	11/17/09	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	11/17/09	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/17/09	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	11/17/09	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/17/09	1

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit (PQL)



12065 Lebanon Rd.  
 Mt. Juliet, TN 37122  
 (615) 758-5858  
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

November 23, 2009

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

ESC Sample # : L432093-05

Date Received : November 13, 2009  
 Description : Old Fort Landfill

Site ID : OLD FORT NC

Sample ID : MW-1

Project # : 010057

Collected By : Robert Nowakowski  
 Collection Date : 11/09/09 14:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	11/17/09	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	11/17/09	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/17/09	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	11/17/09	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	11/17/09	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	11/17/09	1
Ethylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	8260B	11/17/09	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	11/17/09	1
2-Butanone (MEK)	BDL	10.	ug/l	8260B	11/17/09	1
Methylene Chloride	BDL	5.0	ug/l	8260B	11/17/09	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	11/17/09	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	11/17/09	1
Naphthalene	BDL	5.0	ug/l	8260B	11/17/09	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Styrene	BDL	1.0	ug/l	8260B	11/17/09	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	1.0	ug/l	8260B	11/17/09	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	11/17/09	1
Toluene	BDL	5.0	ug/l	8260B	11/17/09	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	11/17/09	1
Trichloroethene	BDL	1.0	ug/l	8260B	11/17/09	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	11/17/09	1
1,2,3-Trichloropropane	BDL	1.0	ug/l	8260B	11/17/09	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	11/17/09	1
Vinyl chloride	BDL	1.0	ug/l	8260B	11/17/09	1
Xylenes, Total	BDL	3.0	ug/l	8260B	11/17/09	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	11/17/09	1
Dibromofluoromethane	102.		% Rec.	8260B	11/17/09	1
4-Bromofluorobenzene	106.		% Rec.	8260B	11/17/09	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.50	ug/l	8082	11/21/09	1
PCB 1221	BDL	0.50	ug/l	8082	11/21/09	1
PCB 1232	BDL	0.50	ug/l	8082	11/21/09	1
PCB 1242	BDL	0.50	ug/l	8082	11/21/09	1

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit (PQL)



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

November 23, 2009

Date Received : November 13, 2009  
 Description : Old Fort Landfill  
 Sample ID : MW-1  
 Collected By : Robert Nowakowski  
 Collection Date : 11/09/09 14:30

ESC Sample # : L432093-05

Site ID : OLD FORT NC

Project # : 010057

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
PCB 1248	BDL	0.50	ug/l	8082	11/21/09	1
PCB 1254	BDL	0.50	ug/l	8082	11/21/09	1
PCB 1260	BDL	0.50	ug/l	8082	11/21/09	1
PCBs Surrogates						
Decachlorobiphenyl	73.7		% Rec.	8082	11/21/09	1
Tetrachloro-m-xylene	57.1		% Rec.	8082	11/21/09	1
Base/Neutral Extractables						
Acenaphthene	BDL	1.0	ug/l	8270C	11/17/09	1
Acenaphthylene	BDL	1.0	ug/l	8270C	11/17/09	1
Anthracene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzidine	BDL	10.	ug/l	8270C	11/17/09	1
Benzo(a)anthracene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzo(a)pyrene	BDL	1.0	ug/l	8270C	11/17/09	1
Bis(2-chloroethoxy)methane	BDL	10.	ug/l	8270C	11/17/09	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270C	11/17/09	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270C	11/17/09	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270C	11/17/09	1
2-Chloronaphthalene	BDL	1.0	ug/l	8270C	11/17/09	1
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270C	11/17/09	1
Chrysene	BDL	1.0	ug/l	8270C	11/17/09	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	8270C	11/17/09	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270C	11/17/09	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270C	11/17/09	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270C	11/17/09	1
Fluoranthene	BDL	1.0	ug/l	8270C	11/17/09	1
Fluorene	BDL	1.0	ug/l	8270C	11/17/09	1
Hexachlorobenzene	BDL	1.0	ug/l	8270C	11/17/09	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270C	11/17/09	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270C	11/17/09	1
Hexachloroethane	BDL	10.	ug/l	8270C	11/17/09	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	8270C	11/17/09	1
Isophorone	BDL	10.	ug/l	8270C	11/17/09	1
Naphthalene	BDL	1.0	ug/l	8270C	11/17/09	1
Nitrobenzene	BDL	10.	ug/l	8270C	11/17/09	1
n-Nitrosodimethylamine	BDL	10.	ug/l	8270C	11/17/09	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270C	11/17/09	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270C	11/17/09	1
Phenanthrene	BDL	1.0	ug/l	8270C	11/17/09	1
Benzylbutyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Bis(2-ethylhexyl)phthalate	BDL	1.0	ug/l	8270C	11/17/09	1

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit(PQL)



YOUR LAB OF CHOICE

12065 Lebaron Rd.  
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Est. 1970

REPORT OF ANALYSIS

Bob Nowakowski, C.P.G.  
RJN Environmental, Inc.  
32310 Coventry Place  
Warren, MI 48093

November 23, 2009

Date Received : November 13, 2009  
Description : Old Fort Landfill  
Sample ID : MW-1  
Collected By : Robert Nowakowski  
Collection Date : 11/09/09 14:30

ESC Sample # : L432093-05

Site ID : OLD FORT NC

Project # : 010057

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-n-butyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Diethyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Dimethyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Di-n-octyl phthalate	BDL	1.0	ug/l	8270C	11/17/09	1
Pyrene	BDL	1.0	ug/l	8270C	11/17/09	1
1,2,4-Trichlorobenzene	BDL	10.	ug/l	8270C	11/17/09	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270C	11/17/09	1
2-Chlorophenol	BDL	10.	ug/l	8270C	11/17/09	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270C	11/17/09	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270C	11/17/09	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270C	11/17/09	1
2,4-Dinitrophenol	BDL	10.	ug/l	8270C	11/17/09	1
2-Nitrophenol	BDL	10.	ug/l	8270C	11/17/09	1
4-Nitrophenol	BDL	10.	ug/l	8270C	11/17/09	1
Pentachlorophenol	BDL	1.0	ug/l	8270C	11/17/09	1
Phenol	BDL	10.	ug/l	8270C	11/17/09	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270C	11/17/09	1
Surrogate Recovery						
2-Fluorophenol	32.6		% Rec.	8270C	11/17/09	1
Phenol-d5	20.7		% Rec.	8270C	11/17/09	1
Nitrobenzene-d5	41.4		% Rec.	8270C	11/17/09	1
2-Fluorobiphenyl	55.2		% Rec.	8270C	11/17/09	1
2,4,6-Tribromophenol	74.5		% Rec.	8270C	11/17/09	1
p-Terphenyl-d14	70.0		% Rec.	8270C	11/17/09	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 11/23/09 14:15 Printed: 11/23/09 14:16

Summary of Remarks For Samples Printed  
11/23/09 at 14:16:10

TSR Signing Reports: 341  
R5 - Desired TAT

10k - refer client to Accounting

Sample: L432093-01 Account: RJNENVWMI Received: 11/13/09 09:00 Due Date: 11/20/09 00:00 RPT Date: 11/23/09 14:15

Sample: L432093-02 Account: RJNENVWMI Received: 11/13/09 09:00 Due Date: 11/20/09 00:00 RPT Date: 11/23/09 14:15

Sample: L432093-03 Account: RJNENVWMI Received: 11/13/09 09:00 Due Date: 11/20/09 00:00 RPT Date: 11/23/09 14:15

Sample: L432093-04 Account: RJNENVWMI Received: 11/13/09 09:00 Due Date: 11/20/09 00:00 RPT Date: 11/23/09 14:15

Sample: L432093-05 Account: RJNENVWMI Received: 11/13/09 09:00 Due Date: 11/20/09 00:00 RPT Date: 11/23/09 14:15





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Bob Nowakowski, C.P.G.  
RJN Environmental, Inc.  
32310 Coventry Place  
Warren, MI 48093

## Report Summary

Thursday December 23, 2010

Report Number: L493132

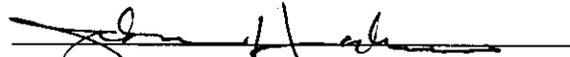
Samples Received: 12/10/10

Client Project: 010059

Description: Old Fort Site Investigation

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

  
John Hawkins, ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140  
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,  
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REPORT OF ANALYSIS

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

December 23, 2010

Date Received : December 10, 2010  
 Description : Old Fort Site Investigation  
 Sample ID : MW-1A  
 Collected By : Paul Nowakowski  
 Collection Date : 12/06/10 12:30

ESC Sample # : L493132-01  
 Site ID : OLD FORT NC  
 Project # : 010059

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.20	ug/l	7470A	12/15/10	1
Arsenic	BDL	20.	ug/l	6010B	12/22/10	1
Barium	360	5.0	ug/l	6010B	12/22/10	1
Cadmium	BDL	5.0	ug/l	6010B	12/22/10	1
Chromium	32.	10.	ug/l	6010B	12/22/10	1
Lead	22.	5.0	ug/l	6010B	12/22/10	1
Selenium	BDL	20.	ug/l	6010B	12/22/10	1
Silver	BDL	10.	ug/l	6010B	12/22/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

December 23, 2010

Date Received : December 10, 2010  
 Description : Old Fort Site Investigation  
 Sample ID : MW-1  
 Collected By : Paul Nowakowski  
 Collection Date : 12/06/10 13:10

ESC Sample # : L493132-02  
 Site ID : OLD FORT NC  
 Project # : 010059

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.20	ug/l	7470A	12/15/10	1
Arsenic	BDL	20.	ug/l	6010B	12/22/10	1
Barium	BDL	5.0	ug/l	6010B	12/22/10	1
Cadmium	5.0	5.0	ug/l	6010B	12/22/10	1
Chromium	BDL	10.	ug/l	6010B	12/22/10	1
Lead	BDL	5.0	ug/l	6010B	12/22/10	1
Selenium	BDL	20.	ug/l	6010B	12/22/10	1
Silver	BDL	10.	ug/l	6010B	12/22/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

December 23, 2010

Date Received : December 10, 2010  
 Description : Old Fort Site Investigation  
 Sample ID : MW-2  
 Collected By : Paul Nowakowski  
 Collection Date : 12/06/10 13:50

ESC Sample # : L493132-03  
 Site ID : OLD FORT NC  
 Project # : 010059

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.20	ug/l	7470A	12/15/10	1
Arsenic	BDL	20.	ug/l	6010B	12/19/10	1
Barium	87.	5.0	ug/l	6010B	12/19/10	1
Cadmium	BDL	5.0	ug/l	6010B	12/19/10	1
Chromium	BDL	10.	ug/l	6010B	12/19/10	1
Lead	BDL	5.0	ug/l	6010B	12/19/10	1
Selenium	BDL	20.	ug/l	6010B	12/19/10	1
Silver	BDL	10.	ug/l	6010B	12/19/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

December 23, 2010

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

Date Received : December 10, 2010  
 Description : Old Fort Site Investigation  
 Sample ID : MW-3  
 Collected By : Paul Nowakowski  
 Collection Date : 12/06/10 14:10

ESC Sample # : L493132-04  
 Site ID : OLD FORT NC  
 Project # : 010059

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.20	ug/l	7470A	12/15/10	1
Arsenic	BDL	20.	ug/l	6010B	12/19/10	1
Barium	1400	5.0	ug/l	6010B	12/19/10	1
Cadmium	BDL	5.0	ug/l	6010B	12/19/10	1
Chromium	120	10.	ug/l	6010B	12/19/10	1
Lead	43.	5.0	ug/l	6010B	12/19/10	1
Selenium	BDL	20.	ug/l	6010B	12/19/10	1
Silver	BDL	10.	ug/l	6010B	12/19/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

December 23, 2010

Date Received : December 10, 2010  
 Description : Old Fort Site Investigation  
 Sample ID : MW-4  
 Collected By : Paul Nowakowski  
 Collection Date : 12/06/10 14:35

ESC Sample # : L493132-05  
 Site ID : OLD FORT NC  
 Project # : 010059

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.20	ug/l	7470A	12/15/10	1
Arsenic	BDL	20.	ug/l	6010B	12/19/10	1
Barium	480	5.0	ug/l	6010B	12/19/10	1
Cadmium	BDL	5.0	ug/l	6010B	12/19/10	1
Chromium	68.	10.	ug/l	6010B	12/19/10	1
Lead	29.	5.0	ug/l	6010B	12/19/10	1
Selenium	BDL	20.	ug/l	6010B	12/19/10	1
Silver	BDL	10.	ug/l	6010B	12/19/10	1

BDL - Below Detection Limit  
 Det. Limit - Practical Quantitation Limit (PQL)  
 Note:  
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 Reported: 12/23/10 10:11 Printed: 12/23/10 10:50

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L493132-02	WG513655	SAMP	Cadmium	R1514109	P1

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

# RJN Environmental, Inc.

34888 Garfield  
Fraser, MI 48026

Billing information:

Bob Nowakowski, C.P.G.  
32310 Coventry Place  
Warren, MI 48093

Analysis/Container/Preservative

E168

Chain of Custody

Page \_\_\_ of \_\_\_



12065 Lebanon Road  
Mt. Juliet, TN 37122

Phone: (800) 767-5859  
Phone: (615) 758-5858  
Fax: (615) 758-5859

Report to: **Bob Nowakowski, C.P.G.** Email: **rjn@rjnenv.com**

Project Description: **Old Fort Site Investigation** City/State Collected: **North Carolina**

Phone: (586) 744-3530 FAX: Client Project #: **010059** Lab Project #: **RJNENVWMI-OLDFORT**

Collected by (print): **PAUL Nowakowski** Site/Facility ID#: **OLD FORT NC** P.O.#:

Collected by (signature): *Paul Nowakowski* Rush? (Lab MUST Be Notified)  
 Packed on Ice N \_\_\_ Y **X**  
 Immediately  
 Date Results Needed  
 Email? \_\_\_ No **X** Yes  
 FAX? \_\_\_ No \_\_\_ Yes  
 No. of Cntrs

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs
/	/	GW	/	/	/	5
/	/	GW	/	/	/	5
MW-1A	61A B	GW	/	12/6/10	1230	1
MW-1	61A B	GW	/	12/6/10	1310	1
MW-2	61A B	GW	/	12/6/10	1350	1
MW-3	61A B	GW	/	12/6/10	1410	1
MW-4	61A B	GW	/	12/6/10	1435	1
/	/	/	/	/	/	/

WetChem II-CIT-NotPres  
 RCRA Metals

Account: **RJNENVWMI** (lab use only)  
 Template/Prelogin: **T68581/P339843**  
 Cooler #: **12-1-10 JRC**  
 Shipped Via: **FedEX Standard**

Remarks/Contaminant Sample # (lab only)  
**L493132**

\*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other \_\_\_\_\_

pH \_\_\_\_\_ Temp \_\_\_\_\_

Remarks:

Flow \_\_\_\_\_ Other \_\_\_\_\_

4341 9815 1299

Relinquished by: (Signature) <i>Paul Nowakowski</i>	Date: 12/7/10	Time: 1800	Received by: (Signature) <i>[Signature]</i>	Samples returned via: <input checked="" type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/>	Condition: (lab use only) <b>OK</b>
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received by: (Signature) <i>[Signature]</i>	Temp: 3.1°C	Bottles Received: 5 DR
Relinquished by: (Signature) <i>[Signature]</i>	Date: 12/9/10	Time: 5 PM	Received for lab by: (Signature) <i>[Signature]</i>	Date: 12/10/10	Time: 0900
				pH Checked: 6.2	NCF: <b>OK</b>



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Bob Nowakowski, C.P.G.  
RJN Environmental, Inc.  
32310 Coventry Place  
Warren, MI 48093

## Report Summary

Wednesday December 22, 2010

Report Number: L493126

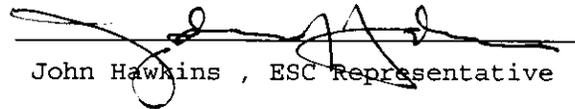
Samples Received: 12/10/10

Client Project: 010059

Description: Old Fort Site Investigation

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Entire Report Reviewed By:



John Hawkins , ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140  
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,  
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REPORT OF ANALYSIS

December 22, 2010

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

ESC Sample # : L493126-01

Date Received : December 10, 2010  
 Description : Old Fort

Site ID : OLD FORT NC

Sample ID : SB1 10-12 FT

Project # : 010059

Collected By : Robert Nowakowski  
 Collection Date : 12/07/10 14:40

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	83.3			%		2540G	12/15/10	1
Mercury	U	0.0015	0.024	mg/kg		7471	12/12/10	1
Arsenic	12.	1.6	6.0	mg/kg		6010B	12/15/10	5
Barium	340	0.25	1.5	mg/kg		6010B	12/15/10	5
Cadmium	U	0.20	1.5	mg/kg	O	6010B	12/15/10	5
Chromium	48.	0.42	3.0	mg/kg		6010B	12/15/10	5
Lead	41.	0.45	1.5	mg/kg		6010B	12/15/10	5
Selenium	80.	1.6	6.0	mg/kg		6010B	12/15/10	5
Silver	U	0.82	3.0	mg/kg	O	6010B	12/17/10	5
Volatile Organics								
Acetone	U	0.052	0.30	mg/kg		8260B	12/12/10	5
Acrylonitrile	U	0.013	0.060	mg/kg		8260B	12/12/10	5
Benzene	U	0.0021	0.0060	mg/kg		8260B	12/12/10	5
Bromobenzene	U	0.0015	0.0060	mg/kg		8260B	12/12/10	5
Bromodichloromethane	U	0.0017	0.0060	mg/kg		8260B	12/12/10	5
Bromoform	U	0.0016	0.0060	mg/kg		8260B	12/12/10	5
Bromomethane	U	0.0078	0.030	mg/kg		8260B	12/12/10	5
n-Butylbenzene	U	0.0017	0.0060	mg/kg		8260B	12/12/10	5
sec-Butylbenzene	U	0.0015	0.0060	mg/kg		8260B	12/12/10	5
tert-Butylbenzene	U	0.0014	0.0060	mg/kg		8260B	12/12/10	5
Carbon tetrachloride	U	0.0021	0.0060	mg/kg		8260B	12/12/10	5
Chlorobenzene	U	0.0017	0.0060	mg/kg		8260B	12/12/10	5
Chlorodibromomethane	U	0.0015	0.0060	mg/kg		8260B	12/12/10	5
Chloroethane	U	0.0098	0.030	mg/kg		8260B	12/12/10	5
2-Chloroethyl vinyl ether	U	0.091	0.30	mg/kg		8260B	12/12/10	5
Chloroform	U	0.0022	0.030	mg/kg		8260B	12/12/10	5
Chloromethane	U	0.0052	0.015	mg/kg		8260B	12/12/10	5
2-Chlorotoluene	U	0.0016	0.0060	mg/kg		8260B	12/12/10	5
4-Chlorotoluene	U	0.0015	0.0060	mg/kg		8260B	12/12/10	5
1,2-Dibromo-3-Chloropropane	U	0.0053	0.030	mg/kg		8260B	12/12/10	5
1,2-Dibromoethane	U	0.0015	0.0060	mg/kg		8260B	12/12/10	5
Dibromomethane	U	0.0023	0.0060	mg/kg		8260B	12/12/10	5
1,2-Dichlorobenzene	U	0.0016	0.0060	mg/kg		8260B	12/12/10	5
1,3-Dichlorobenzene	U	0.0014	0.0060	mg/kg		8260B	12/12/10	5
1,4-Dichlorobenzene	U	0.0018	0.0060	mg/kg		8260B	12/12/10	5
Dichlorodifluoromethane	U	0.0021	0.030	mg/kg		8260B	12/12/10	5
1,1-Dichloroethane	U	0.0021	0.0060	mg/kg		8260B	12/12/10	5
1,2-Dichloroethane	U	0.0019	0.0060	mg/kg		8260B	12/12/10	5
1,1-Dichloroethene	U	0.0026	0.0060	mg/kg		8260B	12/12/10	5
cis-1,2-Dichloroethene	U	0.0026	0.0060	mg/kg		8260B	12/12/10	5

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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REPORT OF ANALYSIS

December 22, 2010

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

ESC Sample # : L493126-01  
 Site ID : OLD FORT NC  
 Project # : 010059

Date Received : December 10, 2010  
 Description : Old Fort  
 Sample ID : SB1 10-12 FT  
 Collected By : Robert Nowakowski  
 Collection Date : 12/07/10 14:40

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
trans-1,2-Dichloroethene	U	0.0021	0.0060	mg/kg		8260B	12/12/10	5
1,2-Dichloropropane	U	0.0030	0.0060	mg/kg		8260B	12/12/10	5
1,1-Dichloropropene	U	0.0017	0.0060	mg/kg		8260B	12/12/10	5
1,3-Dichloropropane	U	0.0019	0.0060	mg/kg		8260B	12/12/10	5
cis-1,3-Dichloropropene	U	0.0015	0.0060	mg/kg		8260B	12/12/10	5
trans-1,3-Dichloropropene	U	0.0020	0.0060	mg/kg		8260B	12/12/10	5
2,2-Dichloropropane	U	0.0018	0.0060	mg/kg		8260B	12/12/10	5
Di-isopropyl ether	U	0.0018	0.0060	mg/kg		8260B	12/12/10	5
Ethylbenzene	U	0.0016	0.0060	mg/kg		8260B	12/12/10	5
Hexachloro-1,3-butadiene	U	0.0017	0.0060	mg/kg		8260B	12/12/10	5
Isopropylbenzene	U	0.0017	0.0060	mg/kg		8260B	12/12/10	5
p-Isopropyltoluene	U	0.0016	0.0060	mg/kg		8260B	12/12/10	5
2-Butanone (MEK)	U	0.022	0.060	mg/kg		8260B	12/12/10	5
Methylene Chloride	U	0.0024	0.030	mg/kg		8260B	12/12/10	5
4-Methyl-2-pentanone (MIBK)	U	0.011	0.060	mg/kg		8260B	12/12/10	5
Methyl tert-butyl ether	U	0.0018	0.0060	mg/kg		8260B	12/12/10	5
Naphthalene	U	0.0014	0.030	mg/kg		8260B	12/12/10	5
n-Propylbenzene	U	0.0016	0.0060	mg/kg		8260B	12/12/10	5
Styrene	U	0.0012	0.0060	mg/kg		8260B	12/12/10	5
1,1,1,2-Tetrachloroethane	U	0.0020	0.0060	mg/kg		8260B	12/12/10	5
1,1,2,2-Tetrachloroethane	U	0.0014	0.0060	mg/kg		8260B	12/12/10	5
1,1,2-Trichloro-1,2,2-trifluoro	U	0.0043	0.0060	mg/kg		8260B	12/12/10	5
Tetrachloroethene	U	0.0022	0.0060	mg/kg		8260B	12/12/10	5
Toluene	U	0.0017	0.030	mg/kg		8260B	12/12/10	5
1,2,3-Trichlorobenzene	U	0.0015	0.0060	mg/kg		8260B	12/12/10	5
1,2,4-Trichlorobenzene	U	0.0019	0.0060	mg/kg		8260B	12/12/10	5
1,1,1-Trichloroethane	U	0.0023	0.0060	mg/kg		8260B	12/12/10	5
1,1,2-Trichloroethane	U	0.0027	0.0060	mg/kg		8260B	12/12/10	5
Trichloroethene	U	0.0017	0.0060	mg/kg		8260B	12/12/10	5
Trichlorofluoromethane	U	0.0035	0.030	mg/kg		8260B	12/12/10	5
1,2,3-Trichloropropane	U	0.0034	0.0060	mg/kg		8260B	12/12/10	5
1,2,4-Trimethylbenzene	U	0.0017	0.0060	mg/kg		8260B	12/12/10	5
1,2,3-Trimethylbenzene	U	0.0016	0.0060	mg/kg	J	8260B	12/12/10	5
1,3,5-Trimethylbenzene	U	0.0015	0.0060	mg/kg	J	8260B	12/12/10	5
Vinyl chloride	U	0.0026	0.0060	mg/kg		8260B	12/12/10	5
Xylenes, Total	U	0.0023	0.018	mg/kg	J	8260B	12/12/10	5
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	12/12/10	5
Dibromofluoromethane	102.			% Rec.		8260B	12/12/10	5
4-Bromofluorobenzene	97.9			% Rec.		8260B	12/12/10	5
Base/Neutral Extractables								
Acenaphthene	U	0.024	0.040	mg/kg		8270C	12/17/10	1

Results listed are dry weight basis.  
 U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD  
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

December 22, 2010

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

ESC Sample # : L493126-01

Date Received : December 10, 2010  
 Description : Old Fort

Site ID : OLD FORT NC

Sample ID : SB1 10-12 FT

Project # : 010059

Collected By : Robert Nowakowski  
 Collection Date : 12/07/10 14:40

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Acenaphthylene	U	0.0087	0.040	mg/kg		8270C	12/17/10	1
Anthracene	U	0.0074	0.040	mg/kg		8270C	12/17/10	1
Benzidine	U	0.046	0.40	mg/kg		8270C	12/17/10	1
Benzo(a)anthracene	U	0.0093	0.040	mg/kg		8270C	12/17/10	1
Benzo(b)fluoranthene	U	0.0098	0.040	mg/kg		8270C	12/17/10	1
Benzo(k)fluoranthene	U	0.0089	0.040	mg/kg		8270C	12/17/10	1
Benzo(g,h,i)perylene	U	0.0090	0.040	mg/kg		8270C	12/17/10	1
Benzo(a)pyrene	U	0.0085	0.040	mg/kg		8270C	12/17/10	1
Bis(2-chlorethoxy)methane	U	0.0077	0.40	mg/kg		8270C	12/17/10	1
Bis(2-chloroethyl)ether	U	0.012	0.40	mg/kg		8270C	12/17/10	1
Bis(2-chloroisopropyl)ether	U	0.0087	0.40	mg/kg		8270C	12/17/10	1
4-Bromophenyl-phenylether	U	0.0092	0.40	mg/kg		8270C	12/17/10	1
2-Chloronaphthalene	U	0.0072	0.040	mg/kg		8270C	12/17/10	1
4-Chlorophenyl-phenylether	U	0.0069	0.40	mg/kg		8270C	12/17/10	1
Chrysene	U	0.013	0.040	mg/kg		8270C	12/17/10	1
Dibenz(a,h)anthracene	U	0.0068	0.040	mg/kg		8270C	12/17/10	1
3,3-Dichlorobenzidine	U	0.038	0.40	mg/kg		8270C	12/17/10	1
2,4-Dinitrotoluene	U	0.010	0.40	mg/kg		8270C	12/17/10	1
2,6-Dinitrotoluene	U	0.0088	0.40	mg/kg		8270C	12/17/10	1
Fluoranthene	U	0.011	0.040	mg/kg		8270C	12/17/10	1
Fluorene	U	0.0078	0.040	mg/kg		8270C	12/17/10	1
Hexachlorobenzene	U	0.0083	0.40	mg/kg		8270C	12/17/10	1
Hexachloro-1,3-butadiene	U	0.0076	0.40	mg/kg		8270C	12/17/10	1
Hexachlorocyclopentadiene	U	0.037	0.40	mg/kg		8270C	12/17/10	1
Hexachloroethane	U	0.0074	0.40	mg/kg		8270C	12/17/10	1
Indeno(1,2,3-cd)pyrene	U	0.0073	0.040	mg/kg		8270C	12/17/10	1
Isophorone	U	0.0060	0.40	mg/kg		8270C	12/17/10	1
Naphthalene	U	0.0072	0.040	mg/kg		8270C	12/17/10	1
Nitrobenzene	U	0.0074	0.40	mg/kg		8270C	12/17/10	1
n-Nitrosodimethylamine	U	0.10	0.40	mg/kg		8270C	12/17/10	1
n-Nitrosodiphenylamine	U	0.0087	0.40	mg/kg	J4	8270C	12/17/10	1
n-Nitrosodi-n-propylamine	U	0.0087	0.40	mg/kg		8270C	12/17/10	1
Phenanthrene	U	0.0085	0.040	mg/kg		8270C	12/17/10	1
Benzylbutyl phthalate	U	0.023	0.40	mg/kg		8270C	12/17/10	1
Bis(2-ethylhexyl)phthalate	U	0.072	0.40	mg/kg		8270C	12/17/10	1
Di-n-butyl phthalate	U	0.018	0.40	mg/kg		8270C	12/17/10	1
Diethyl phthalate	U	0.0068	0.40	mg/kg		8270C	12/17/10	1
Dimethyl phthalate	U	0.0068	0.40	mg/kg		8270C	12/17/10	1
Di-n-octyl phthalate	U	0.023	0.40	mg/kg		8270C	12/17/10	1
Pyrene	U	0.010	0.040	mg/kg		8270C	12/17/10	1
1,2,4-Trichlorobenzene	U	0.0066	0.40	mg/kg		8270C	12/17/10	1
Acid Extractables								
4-Chloro-3-methylphenol	U	0.0092	0.40	mg/kg		8270C	12/17/10	1

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REPORT OF ANALYSIS

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

December 22, 2010

Date Received : December 10, 2010  
 Description : Old Fort  
 Sample ID : SB1 10-12 FT  
 Collected By : Robert Nowakowski  
 Collection Date : 12/07/10 14:40

ESC Sample # : L493126-01  
 Site ID : OLD FORT NC  
 Project # : 010059

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Chlorophenol	U	0.0064	0.40	mg/kg		8270C	12/17/10	1
2,4-Dichlorophenol	U	0.0074	0.40	mg/kg		8270C	12/17/10	1
2,4-Dimethylphenol	U	0.062	0.40	mg/kg		8270C	12/17/10	1
4,6-Dinitro-2-methylphenol	U	0.065	0.40	mg/kg		8270C	12/17/10	1
2,4-Dinitrophenol	U	0.069	0.40	mg/kg		8270C	12/17/10	1
2-Nitrophenol	U	0.012	0.40	mg/kg		8270C	12/17/10	1
4-Nitrophenol	U	0.064	0.40	mg/kg		8270C	12/17/10	1
Pentachlorophenol	U	0.048	0.40	mg/kg		8270C	12/17/10	1
Phenol	U	0.0063	0.40	mg/kg		8270C	12/17/10	1
2,4,6-Trichlorophenol	U	0.0089	0.40	mg/kg		8270C	12/17/10	1
Surrogate Recovery								
2-Fluorophenol	73.3			% Rec.		8270C	12/17/10	1
Phenol-d5	80.1			% Rec.		8270C	12/17/10	1
Nitrobenzene-d5	61.5			% Rec.		8270C	12/17/10	1
2-Fluorobiphenyl	81.4			% Rec.		8270C	12/17/10	1
2,4,6-Tribromophenol	76.1			% Rec.		8270C	12/17/10	1
p-Terphenyl-d14	99.3			% Rec.		8270C	12/17/10	1

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REPORT OF ANALYSIS

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 Warren, MI 48093

ESC Sample # : L493126-02

Date Received : December 10, 2010  
 Description : Old Fort

Site ID : OLD FORT NC

Sample ID : SB2 5-6 FT

Project # : 010059

Collected By : Robert Nowakowski  
 Collection Date : 12/07/10 15:25

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	87.2			%		2540G	12/15/10	1
Mercury	U	0.0015	0.023	mg/kg		7471	12/12/10	1
Arsenic	16.	1.6	5.7	mg/kg		6010B	12/15/10	5
Barium	440	0.25	1.4	mg/kg		6010B	12/15/10	5
Cadmium	0.23	0.20	1.4	mg/kg	J	6010B	12/15/10	5
Chromium	56.	0.42	2.9	mg/kg		6010B	12/15/10	5
Lead	39.	0.45	1.4	mg/kg		6010B	12/15/10	5
Selenium	74.	1.6	5.7	mg/kg		6010B	12/15/10	5
Silver	U	0.82	2.9	mg/kg	O	6010B	12/17/10	5
Volatile Organics								
Acetone	U	0.052	0.29	mg/kg		8260B	12/12/10	5
Acrylonitrile	U	0.013	0.057	mg/kg		8260B	12/12/10	5
Benzene	U	0.0021	0.0057	mg/kg		8260B	12/12/10	5
Bromobenzene	U	0.0015	0.0057	mg/kg		8260B	12/12/10	5
Bromodichloromethane	U	0.0017	0.0057	mg/kg		8260B	12/12/10	5
Bromoform	U	0.0016	0.0057	mg/kg		8260B	12/12/10	5
Bromomethane	U	0.0078	0.029	mg/kg		8260B	12/12/10	5
n-Butylbenzene	U	0.0017	0.0057	mg/kg		8260B	12/12/10	5
sec-Butylbenzene	U	0.0015	0.0057	mg/kg		8260B	12/12/10	5
tert-Butylbenzene	U	0.0014	0.0057	mg/kg		8260B	12/12/10	5
Carbon tetrachloride	U	0.0021	0.0057	mg/kg		8260B	12/12/10	5
Chlorobenzene	U	0.0017	0.0057	mg/kg		8260B	12/12/10	5
Chlorodibromomethane	U	0.0015	0.0057	mg/kg		8260B	12/12/10	5
Chloroethane	U	0.0098	0.029	mg/kg		8260B	12/12/10	5
2-Chloroethyl vinyl ether	U	0.091	0.29	mg/kg		8260B	12/12/10	5
Chloroform	U	0.0022	0.029	mg/kg		8260B	12/12/10	5
Chloromethane	U	0.0052	0.014	mg/kg		8260B	12/12/10	5
2-Chlorotoluene	U	0.0016	0.0057	mg/kg		8260B	12/12/10	5
4-Chlorotoluene	U	0.0015	0.0057	mg/kg		8260B	12/12/10	5
1,2-Dibromo-3-Chloropropane	U	0.0053	0.029	mg/kg		8260B	12/12/10	5
1,2-Dibromoethane	U	0.0015	0.0057	mg/kg		8260B	12/12/10	5
Dibromomethane	U	0.0023	0.0057	mg/kg		8260B	12/12/10	5
1,2-Dichlorobenzene	U	0.0016	0.0057	mg/kg		8260B	12/12/10	5
1,3-Dichlorobenzene	U	0.0014	0.0057	mg/kg		8260B	12/12/10	5
1,4-Dichlorobenzene	U	0.0018	0.0057	mg/kg		8260B	12/12/10	5
Dichlorodifluoromethane	U	0.0021	0.029	mg/kg		8260B	12/12/10	5
1,1-Dichloroethane	U	0.0021	0.0057	mg/kg		8260B	12/12/10	5
1,2-Dichloroethane	U	0.0019	0.0057	mg/kg		8260B	12/12/10	5
1,1-Dichloroethene	U	0.0026	0.0057	mg/kg		8260B	12/12/10	5
cis-1,2-Dichloroethene	U	0.0026	0.0057	mg/kg		8260B	12/12/10	5

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REPORT OF ANALYSIS

December 22, 2010

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RJN Environmental, Inc.  
32310 Coventry Place  
Warren, MI 48093

ESC Sample # : L493126-02

Date Received : December 10, 2010  
Description : Old Fort

Site ID : OLD FORT NC

Sample ID : SB2 5-6 FT

Project # : 010059

Collected By : Robert Nowakowski  
Collection Date : 12/07/10 15:25

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
trans-1,2-Dichloroethene	U	0.0021	0.0057	mg/kg		8260B	12/12/10	5
1,2-Dichloropropane	U	0.0030	0.0057	mg/kg		8260B	12/12/10	5
1,1-Dichloropropene	U	0.0017	0.0057	mg/kg		8260B	12/12/10	5
1,3-Dichloropropane	U	0.0019	0.0057	mg/kg		8260B	12/12/10	5
cis-1,3-Dichloropropene	U	0.0015	0.0057	mg/kg		8260B	12/12/10	5
trans-1,3-Dichloropropene	U	0.0020	0.0057	mg/kg		8260B	12/12/10	5
2,2-Dichloropropane	U	0.0018	0.0057	mg/kg		8260B	12/12/10	5
Di-isopropyl ether	U	0.0018	0.0057	mg/kg		8260B	12/12/10	5
Ethylbenzene	U	0.0016	0.0057	mg/kg		8260B	12/12/10	5
Hexachloro-1,3-butadiene	U	0.0017	0.0057	mg/kg		8260B	12/12/10	5
Isopropylbenzene	U	0.0017	0.0057	mg/kg		8260B	12/12/10	5
p-Isopropyltoluene	U	0.0016	0.0057	mg/kg		8260B	12/12/10	5
2-Butanone (MEK)	U	0.022	0.057	mg/kg		8260B	12/12/10	5
Methylene Chloride	U	0.0024	0.029	mg/kg		8260B	12/12/10	5
4-Methyl-2-pentanone (MIBK)	U	0.011	0.057	mg/kg		8260B	12/12/10	5
Methyl tert-butyl ether	U	0.0018	0.0057	mg/kg		8260B	12/12/10	5
Naphthalene	U	0.0014	0.029	mg/kg		8260B	12/12/10	5
n-Propylbenzene	U	0.0016	0.0057	mg/kg		8260B	12/12/10	5
Styrene	U	0.0012	0.0057	mg/kg		8260B	12/12/10	5
1,1,1,2-Tetrachloroethane	U	0.0020	0.0057	mg/kg		8260B	12/12/10	5
1,1,2,2-Tetrachloroethane	U	0.0014	0.0057	mg/kg		8260B	12/12/10	5
1,1,2-Trichloro-1,2,2-trifluoro	U	0.0043	0.0057	mg/kg		8260B	12/12/10	5
Tetrachloroethene	U	0.0022	0.0057	mg/kg		8260B	12/12/10	5
Toluene	U	0.0017	0.029	mg/kg		8260B	12/12/10	5
1,2,3-Trichlorobenzene	U	0.0015	0.0057	mg/kg		8260B	12/12/10	5
1,2,4-Trichlorobenzene	U	0.0019	0.0057	mg/kg		8260B	12/12/10	5
1,1,1-Trichloroethane	U	0.0023	0.0057	mg/kg		8260B	12/12/10	5
1,1,2-Trichloroethane	U	0.0027	0.0057	mg/kg		8260B	12/12/10	5
Trichloroethene	U	0.0017	0.0057	mg/kg		8260B	12/12/10	5
Trichlorofluoromethane	U	0.0035	0.029	mg/kg		8260B	12/12/10	5
1,2,3-Trichloropropane	U	0.0034	0.0057	mg/kg		8260B	12/12/10	5
1,2,4-Trimethylbenzene	U	0.0017	0.0057	mg/kg	J	8260B	12/12/10	5
1,2,3-Trimethylbenzene	U	0.0016	0.0057	mg/kg		8260B	12/12/10	5
1,3,5-Trimethylbenzene	U	0.0015	0.0057	mg/kg	J	8260B	12/12/10	5
Vinyl chloride	U	0.0026	0.0057	mg/kg		8260B	12/12/10	5
Xylenes, Total	U	0.0023	0.017	mg/kg	J	8260B	12/12/10	5
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	12/12/10	5
Dibromofluoromethane	101.			% Rec.		8260B	12/12/10	5
4-Bromofluorobenzene	97.7			% Rec.		8260B	12/12/10	5
Base/Neutral Extractables								
Acenaphthene	U	0.024	0.038	mg/kg		8270C	12/17/10	1

Results listed are dry weight basis.

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MDL = Minimum Detection Limit = LOD

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 1-800-767-5859  
 Fax (615) 758-5859  
 Tax I.D. 62-0814289  
 Est. 1970

REPORT OF ANALYSIS

December 22, 2010

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

ESC Sample # : L493126-02  
 Site ID : OLD FORT NC  
 Project # : 010059

Date Received : December 10, 2010  
 Description : Old Fort  
 Sample ID : SB2 5-6 FT  
 Collected By : Robert Nowakowski  
 Collection Date : 12/07/10 15:25

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Acenaphthylene	U	0.0087	0.038	mg/kg		8270C	12/17/10	1
Anthracene	U	0.0074	0.038	mg/kg		8270C	12/17/10	1
Benzidine	U	0.046	0.38	mg/kg		8270C	12/17/10	1
Benzo(a)anthracene	U	0.0093	0.038	mg/kg		8270C	12/17/10	1
Benzo(b)fluoranthene	U	0.0098	0.038	mg/kg		8270C	12/17/10	1
Benzo(k)fluoranthene	U	0.0089	0.038	mg/kg		8270C	12/17/10	1
Benzo(g,h,i)perylene	U	0.0090	0.038	mg/kg		8270C	12/17/10	1
Benzo(a)pyrene	U	0.0085	0.038	mg/kg		8270C	12/17/10	1
Bis(2-chlorethoxy)methane	U	0.0077	0.38	mg/kg		8270C	12/17/10	1
Bis(2-chloroethyl)ether	U	0.012	0.38	mg/kg		8270C	12/17/10	1
Bis(2-chloroisopropyl)ether	U	0.0087	0.38	mg/kg		8270C	12/17/10	1
4-Bromophenyl-phenylether	U	0.0092	0.38	mg/kg		8270C	12/17/10	1
2-Chloronaphthalene	U	0.0072	0.038	mg/kg		8270C	12/17/10	1
4-Chlorophenyl-phenylether	U	0.0069	0.38	mg/kg		8270C	12/17/10	1
Chrysene	U	0.013	0.038	mg/kg		8270C	12/17/10	1
Dibenz(a,h)anthracene	U	0.0068	0.038	mg/kg		8270C	12/17/10	1
3,3-Dichlorobenzidine	U	0.038	0.38	mg/kg		8270C	12/17/10	1
2,4-Dinitrotoluene	U	0.010	0.38	mg/kg		8270C	12/17/10	1
2,6-Dinitrotoluene	U	0.0088	0.38	mg/kg		8270C	12/17/10	1
Fluoranthene	U	0.011	0.038	mg/kg		8270C	12/17/10	1
Fluorene	U	0.0078	0.038	mg/kg		8270C	12/17/10	1
Hexachlorobenzene	U	0.0083	0.38	mg/kg		8270C	12/17/10	1
Hexachloro-1,3-butadiene	U	0.0076	0.38	mg/kg		8270C	12/17/10	1
Hexachlorocyclopentadiene	U	0.037	0.38	mg/kg		8270C	12/17/10	1
Hexachloroethane	U	0.0074	0.38	mg/kg		8270C	12/17/10	1
Indeno(1,2,3-cd)pyrene	U	0.0073	0.038	mg/kg		8270C	12/17/10	1
Isophorone	U	0.0060	0.38	mg/kg		8270C	12/17/10	1
Naphthalene	U	0.0072	0.038	mg/kg		8270C	12/17/10	1
Nitrobenzene	U	0.0074	0.38	mg/kg		8270C	12/17/10	1
n-Nitrosodimethylamine	U	0.10	0.38	mg/kg		8270C	12/17/10	1
n-Nitrosodiphenylamine	U	0.0087	0.38	mg/kg	J4	8270C	12/17/10	1
n-Nitrosodi-n-propylamine	U	0.0087	0.38	mg/kg		8270C	12/17/10	1
Phenanthrene	U	0.0085	0.038	mg/kg		8270C	12/17/10	1
Benzylbutyl phthalate	U	0.023	0.38	mg/kg		8270C	12/17/10	1
Bis(2-ethylhexyl)phthalate	U	0.072	0.38	mg/kg		8270C	12/17/10	1
Di-n-butyl phthalate	U	0.018	0.38	mg/kg		8270C	12/17/10	1
Diethyl phthalate	U	0.0068	0.38	mg/kg		8270C	12/17/10	1
Dimethyl phthalate	U	0.0068	0.38	mg/kg		8270C	12/17/10	1
Di-n-octyl phthalate	U	0.023	0.38	mg/kg		8270C	12/17/10	1
Pyrene	U	0.010	0.038	mg/kg		8270C	12/17/10	1
1,2,4-Trichlorobenzene	U	0.0066	0.38	mg/kg		8270C	12/17/10	1
Acid Extractables								
4-Chloro-3-methylphenol	U	0.0092	0.38	mg/kg		8270C	12/17/10	1

Results listed are dry weight basis.  
 U = ND (Not Detected)  
 MDL = Minimum Detection Limit = LOD  
 RDL = Reported Detection Limit = LOQ = PQL = EQL  
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REPORT OF ANALYSIS

December 22, 2010

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

ESC Sample # : L493126-02

Date Received : December 10, 2010  
 Description : Old Fort

Site ID : OLD FORT NC

Sample ID : SB2 5-6 FT

Project # : 010059

Collected By : Robert Nowakowski  
 Collection Date : 12/07/10 15:25

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Chlorophenol	U	0.0064	0.38	mg/kg		8270C	12/17/10	1
2,4-Dichlorophenol	U	0.0074	0.38	mg/kg		8270C	12/17/10	1
2,4-Dimethylphenol	U	0.062	0.38	mg/kg		8270C	12/17/10	1
4,6-Dinitro-2-methylphenol	U	0.065	0.38	mg/kg		8270C	12/17/10	1
2,4-Dinitrophenol	U	0.069	0.38	mg/kg		8270C	12/17/10	1
2-Nitrophenol	U	0.012	0.38	mg/kg		8270C	12/17/10	1
4-Nitrophenol	U	0.064	0.38	mg/kg		8270C	12/17/10	1
Pentachlorophenol	U	0.048	0.38	mg/kg		8270C	12/17/10	1
Phenol	U	0.0063	0.38	mg/kg		8270C	12/17/10	1
2,4,6-Trichlorophenol	U	0.0089	0.38	mg/kg		8270C	12/17/10	1
Surrogate Recovery								
2-Fluorophenol	60.3			% Rec.		8270C	12/17/10	1
Phenol-d5	68.6			% Rec.		8270C	12/17/10	1
Nitrobenzene-d5	50.9			% Rec.		8270C	12/17/10	1
2-Fluorobiphenyl	68.2			% Rec.		8270C	12/17/10	1
2,4,6-Tribromophenol	58.9			% Rec.		8270C	12/17/10	1
p-Terphenyl-d14	81.6			% Rec.		8270C	12/17/10	1

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December 22, 2010

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 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

Date Received : December 10, 2010  
 Description : Old Fort  
 Sample ID : SB2 5-6 FT  
 Collected By : Robert Nowakowski  
 Collection Date : 12/07/10 15:25

ESC Sample # : L493126-03  
 Site ID : OLD FORT NC  
 Project : 010059

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	12/15/10 0809	MVE	1
TCLP Pesticides								
Chlordane	BDL	0.0050	mg/l	0.030	8081A	12/17/10 1139	ADF	1
Endrin	BDL	0.0050	mg/l	0.020	8081A	12/17/10 1139	ADF	1
Heptachlor	BDL	0.0050	mg/l	0.0080	8081A	12/17/10 1139	ADF	1
Lindane	BDL	0.0050	mg/l	0.40	8081A	12/17/10 1139	ADF	1
Methoxychlor	BDL	0.0050	mg/l	10.	8081A	12/17/10 1139	ADF	1
Toxaphene	BDL	0.010	mg/l	0.50	8081A	12/17/10 1139	ADF	1
Surrogate Recovery								
Decachlorobiphenyl	83.6		% Rec.	123.	8081A	12/17/10 1139	ADF	1
Tetrachloro-m-xylene	76.9		% Rec.	114.	8081A	12/17/10 1139	ADF	1
TCLP Herbicides								
2,4,5-TP (Silvex)	BDL	0.0020	mg/l	1.0	8151A	12/20/10 1245	KLM	1
2,4-D	BDL	0.0020	mg/l	10.	8151A	12/20/10 1245	KLM	1
Surrogate Recovery								
2,4-Dichlorophenyl Acetic Acid	94.9		% Rec.		8151A	12/20/10 1245	KLM	1

BDL - Below Detection Limit  
 Det. Limit - Estimated Quantitation Limit (EQL)  
 Limit - Maximum Contaminant Level as established by the US EPA  
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REPORT OF ANALYSIS

December 22, 2010

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 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

ESC Sample # : L493126-04

Date Received : December 10, 2010  
 Description : Old Fort

Site ID : OLD FORT NC

Sample ID : SB3 3-5 FT

Project # : 010059

Collected By : Robert Nowakowski  
 Collection Date : 12/07/10 15:45

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	81.7			%		2540G	12/15/10	1
Mercury	0.0020	0.0015	0.024	mg/kg	J	7471	12/12/10	1
Arsenic	15.	1.6	6.1	mg/kg		6010B	12/15/10	5
Barium	270	0.25	1.5	mg/kg		6010B	12/15/10	5
Cadmium	U	0.20	1.5	mg/kg	O	6010B	12/15/10	5
Chromium	33.	0.42	3.0	mg/kg		6010B	12/15/10	5
Lead	35.	0.45	1.5	mg/kg		6010B	12/15/10	5
Selenium	62.	1.6	6.1	mg/kg		6010B	12/15/10	5
Silver	U	0.82	3.0	mg/kg		6010B	12/17/10	5
Volatile Organics								
Acetone	U	0.052	0.30	mg/kg		8260B	12/12/10	5
Acrylonitrile	U	0.013	0.061	mg/kg		8260B	12/12/10	5
Benzene	U	0.0021	0.0061	mg/kg		8260B	12/12/10	5
Bromobenzene	U	0.0015	0.0061	mg/kg		8260B	12/12/10	5
Bromodichloromethane	U	0.0017	0.0061	mg/kg		8260B	12/12/10	5
Bromoform	U	0.0016	0.0061	mg/kg		8260B	12/12/10	5
Bromomethane	U	0.0078	0.030	mg/kg		8260B	12/12/10	5
n-Butylbenzene	U	0.0017	0.0061	mg/kg		8260B	12/12/10	5
sec-Butylbenzene	U	0.0015	0.0061	mg/kg		8260B	12/12/10	5
tert-Butylbenzene	U	0.0014	0.0061	mg/kg		8260B	12/12/10	5
Carbon tetrachloride	U	0.0021	0.0061	mg/kg		8260B	12/12/10	5
Chlorobenzene	U	0.0017	0.0061	mg/kg		8260B	12/12/10	5
Chlorodibromomethane	U	0.0015	0.0061	mg/kg		8260B	12/12/10	5
Chloroethane	U	0.0098	0.030	mg/kg		8260B	12/12/10	5
2-Chloroethyl vinyl ether	U	0.091	0.30	mg/kg		8260B	12/12/10	5
Chloroform	U	0.0022	0.030	mg/kg		8260B	12/12/10	5
Chloromethane	U	0.0052	0.015	mg/kg		8260B	12/12/10	5
2-Chlorotoluene	U	0.0016	0.0061	mg/kg		8260B	12/12/10	5
4-Chlorotoluene	U	0.0015	0.0061	mg/kg		8260B	12/12/10	5
1,2-Dibromo-3-Chloropropane	U	0.0053	0.030	mg/kg		8260B	12/12/10	5
1,2-Dibromoethane	U	0.0015	0.0061	mg/kg		8260B	12/12/10	5
Dibromomethane	U	0.0023	0.0061	mg/kg		8260B	12/12/10	5
1,2-Dichlorobenzene	U	0.0016	0.0061	mg/kg		8260B	12/12/10	5
1,3-Dichlorobenzene	U	0.0014	0.0061	mg/kg		8260B	12/12/10	5
1,4-Dichlorobenzene	U	0.0018	0.0061	mg/kg		8260B	12/12/10	5
Dichlorodifluoromethane	U	0.0021	0.030	mg/kg		8260B	12/12/10	5
1,1-Dichloroethane	U	0.0021	0.0061	mg/kg		8260B	12/12/10	5
1,2-Dichloroethane	U	0.0019	0.0061	mg/kg		8260B	12/12/10	5
1,1-Dichloroethene	U	0.0026	0.0061	mg/kg		8260B	12/12/10	5
cis-1,2-Dichloroethene	U	0.0026	0.0061	mg/kg		8260B	12/12/10	5

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REPORT OF ANALYSIS

December 22, 2010

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 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

ESC Sample # : L493126-04

Date Received : December 10, 2010  
 Description : Old Fort

Site ID : OLD FORT NC

Sample ID : SB3 3-5 FT

Project # : 010059

Collected By : Robert Nowakowski  
 Collection Date : 12/07/10 15:45

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
trans-1,2-Dichloroethene	U	0.0021	0.0061	mg/kg		8260B	12/12/10	5
1,2-Dichloropropane	U	0.0030	0.0061	mg/kg		8260B	12/12/10	5
1,1-Dichloropropene	U	0.0017	0.0061	mg/kg		8260B	12/12/10	5
1,3-Dichloropropane	U	0.0019	0.0061	mg/kg		8260B	12/12/10	5
cis-1,3-Dichloropropene	U	0.0015	0.0061	mg/kg		8260B	12/12/10	5
trans-1,3-Dichloropropene	U	0.0020	0.0061	mg/kg		8260B	12/12/10	5
2,2-Dichloropropane	U	0.0018	0.0061	mg/kg		8260B	12/12/10	5
Di-isopropyl ether	U	0.0018	0.0061	mg/kg		8260B	12/12/10	5
Ethylbenzene	U	0.0016	0.0061	mg/kg		8260B	12/12/10	5
Hexachloro-1,3-butadiene	U	0.0017	0.0061	mg/kg		8260B	12/12/10	5
Isopropylbenzene	U	0.0017	0.0061	mg/kg		8260B	12/12/10	5
p-Isopropyltoluene	U	0.0016	0.0061	mg/kg		8260B	12/12/10	5
2-Butanone (MEK)	U	0.022	0.061	mg/kg		8260B	12/12/10	5
Methylene Chloride	U	0.0024	0.030	mg/kg		8260B	12/12/10	5
4-Methyl-2-pentanone (MIBK)	U	0.011	0.061	mg/kg		8260B	12/12/10	5
Methyl tert-butyl ether	U	0.0018	0.0061	mg/kg		8260B	12/12/10	5
Naphthalene	U	0.0014	0.030	mg/kg		8260B	12/12/10	5
n-Propylbenzene	U	0.0016	0.0061	mg/kg		8260B	12/12/10	5
Styrene	U	0.0012	0.0061	mg/kg		8260B	12/12/10	5
1,1,1,2-Tetrachloroethane	U	0.0020	0.0061	mg/kg		8260B	12/12/10	5
1,1,2,2-Tetrachloroethane	U	0.0014	0.0061	mg/kg		8260B	12/12/10	5
1,1,2-Trichloro-1,2,2-trifluoro	U	0.0043	0.0061	mg/kg		8260B	12/12/10	5
Tetrachloroethene	U	0.0022	0.0061	mg/kg		8260B	12/12/10	5
Toluene	U	0.0017	0.030	mg/kg		8260B	12/12/10	5
1,2,3-Trichlorobenzene	U	0.0015	0.0061	mg/kg		8260B	12/12/10	5
1,2,4-Trichlorobenzene	U	0.0019	0.0061	mg/kg		8260B	12/12/10	5
1,1,1-Trichloroethane	U	0.0023	0.0061	mg/kg		8260B	12/12/10	5
1,1,2-Trichloroethane	U	0.0027	0.0061	mg/kg		8260B	12/12/10	5
Trichloroethene	U	0.0017	0.0061	mg/kg		8260B	12/12/10	5
Trichlorofluoromethane	U	0.0035	0.030	mg/kg		8260B	12/12/10	5
1,2,3-Trichloropropane	U	0.0034	0.0061	mg/kg		8260B	12/12/10	5
1,2,4-Trimethylbenzene	U	0.0017	0.0061	mg/kg		8260B	12/12/10	5
1,2,3-Trimethylbenzene	U	0.0016	0.0061	mg/kg		8260B	12/12/10	5
1,3,5-Trimethylbenzene	U	0.0015	0.0061	mg/kg	J	8260B	12/12/10	5
Vinyl chloride	U	0.0026	0.0061	mg/kg		8260B	12/12/10	5
Xylenes, Total	U	0.0023	0.018	mg/kg	J	8260B	12/12/10	5
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	12/12/10	5
Dibromofluoromethane	103.			% Rec.		8260B	12/12/10	5
4-Bromofluorobenzene	97.4			% Rec.		8260B	12/12/10	5
Base/Neutral Extractables								
Acenaphthene	U	0.024	0.040	mg/kg		8270C	12/17/10	1

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 Warren, MI 48093

ESC Sample # : L493126-04

Date Received : December 10, 2010  
 Description : Old Fort

Site ID : OLD FORT NC

Sample ID : SB3 3-5 FT

Project # : 010059

Collected By : Robert Nowakowski  
 Collection Date : 12/07/10 15:45

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Acenaphthylene	U	0.0087	0.040	mg/kg		8270C	12/17/10	1
Anthracene	U	0.0074	0.040	mg/kg		8270C	12/17/10	1
Benzidine	U	0.046	0.41	mg/kg		8270C	12/17/10	1
Benzo(a)anthracene	U	0.0093	0.040	mg/kg		8270C	12/17/10	1
Benzo(b)fluoranthene	U	0.0098	0.040	mg/kg		8270C	12/17/10	1
Benzo(k)fluoranthene	U	0.0089	0.040	mg/kg		8270C	12/17/10	1
Benzo(g,h,i)perylene	U	0.0090	0.040	mg/kg		8270C	12/17/10	1
Benzo(a)pyrene	U	0.0085	0.040	mg/kg		8270C	12/17/10	1
Bis(2-chlorethoxy)methane	U	0.0077	0.41	mg/kg		8270C	12/17/10	1
Bis(2-chloroethyl)ether	U	0.012	0.41	mg/kg		8270C	12/17/10	1
Bis(2-chloroisopropyl)ether	U	0.0087	0.41	mg/kg		8270C	12/17/10	1
4-Bromophenyl-phenylether	U	0.0092	0.41	mg/kg		8270C	12/17/10	1
2-Chloronaphthalene	U	0.0072	0.040	mg/kg		8270C	12/17/10	1
4-Chlorophenyl-phenylether	U	0.0069	0.41	mg/kg		8270C	12/17/10	1
Chrysene	U	0.013	0.040	mg/kg		8270C	12/17/10	1
Dibenz(a,h)anthracene	U	0.0068	0.040	mg/kg		8270C	12/17/10	1
3,3-Dichlorobenzidine	U	0.038	0.41	mg/kg		8270C	12/17/10	1
2,4-Dinitrotoluene	U	0.010	0.41	mg/kg		8270C	12/17/10	1
2,6-Dinitrotoluene	U	0.0088	0.41	mg/kg		8270C	12/17/10	1
Fluoranthene	U	0.011	0.040	mg/kg		8270C	12/17/10	1
Fluorene	U	0.0078	0.040	mg/kg		8270C	12/17/10	1
Hexachlorobenzene	U	0.0083	0.41	mg/kg		8270C	12/17/10	1
Hexachloro-1,3-butadiene	U	0.0076	0.41	mg/kg		8270C	12/17/10	1
Hexachlorocyclopentadiene	U	0.037	0.41	mg/kg		8270C	12/17/10	1
Hexachloroethane	U	0.0074	0.41	mg/kg		8270C	12/17/10	1
Indeno(1,2,3-cd)pyrene	U	0.0073	0.040	mg/kg		8270C	12/17/10	1
Isophorone	U	0.0060	0.41	mg/kg		8270C	12/17/10	1
Naphthalene	U	0.0072	0.040	mg/kg		8270C	12/17/10	1
Nitrobenzene	U	0.0074	0.41	mg/kg		8270C	12/17/10	1
n-Nitrosodimethylamine	U	0.10	0.41	mg/kg		8270C	12/17/10	1
n-Nitrosodiphenylamine	U	0.0087	0.41	mg/kg	J4	8270C	12/17/10	1
n-Nitrosodi-n-propylamine	U	0.0087	0.41	mg/kg		8270C	12/17/10	1
Phenanthrene	U	0.0085	0.040	mg/kg		8270C	12/17/10	1
Benzylbutyl phthalate	U	0.023	0.41	mg/kg		8270C	12/17/10	1
Bis(2-ethylhexyl)phthalate	U	0.072	0.41	mg/kg		8270C	12/17/10	1
Di-n-butyl phthalate	U	0.018	0.41	mg/kg		8270C	12/17/10	1
Diethyl phthalate	U	0.0068	0.41	mg/kg		8270C	12/17/10	1
Dimethyl phthalate	U	0.0068	0.41	mg/kg		8270C	12/17/10	1
Di-n-octyl phthalate	U	0.023	0.41	mg/kg		8270C	12/17/10	1
Pyrene	U	0.010	0.040	mg/kg		8270C	12/17/10	1
1,2,4-Trichlorobenzene	U	0.0066	0.41	mg/kg		8270C	12/17/10	1
Acid Extractables								
4-Chloro-3-methylphenol	U	0.0092	0.41	mg/kg		8270C	12/17/10	1

Results listed are dry weight basis.

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

December 22, 2010

Date Received : December 10, 2010  
 Description : Old Fort  
 Sample ID : SB3 3-5 FT  
 Collected By : Robert Nowakowski  
 Collection Date : 12/07/10 15:45

ESC Sample # : L493126-04  
 Site ID : OLD FORT NC  
 Project # : 010059

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Chlorophenol	U	0.0064	0.41	mg/kg		8270C	12/17/10	1
2,4-Dichlorophenol	U	0.0074	0.41	mg/kg		8270C	12/17/10	1
2,4-Dimethylphenol	U	0.062	0.41	mg/kg		8270C	12/17/10	1
4,6-Dinitro-2-methylphenol	U	0.065	0.41	mg/kg		8270C	12/17/10	1
2,4-Dinitrophenol	U	0.069	0.41	mg/kg		8270C	12/17/10	1
2-Nitrophenol	U	0.012	0.41	mg/kg		8270C	12/17/10	1
4-Nitrophenol	U	0.064	0.41	mg/kg		8270C	12/17/10	1
Pentachlorophenol	U	0.048	0.41	mg/kg		8270C	12/17/10	1
Phenol	U	0.0063	0.41	mg/kg		8270C	12/17/10	1
2,4,6-Trichlorophenol	U	0.0089	0.41	mg/kg		8270C	12/17/10	1
Surrogate Recovery								
2-Fluorophenol	59.3			% Rec.		8270C	12/17/10	1
Phenol-d5	79.6			% Rec.		8270C	12/17/10	1
Nitrobenzene-d5	69.8			% Rec.		8270C	12/17/10	1
2-Fluorobiphenyl	63.8			% Rec.		8270C	12/17/10	1
2,4,6-Tribromophenol	54.5			% Rec.		8270C	12/17/10	1
p-Terphenyl-d14	73.8			% Rec.		8270C	12/17/10	1

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Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

December 22, 2010

Date Received : December 10, 2010  
 Description : Old Fort  
 Sample ID : SB4 7-9 FT  
 Collected By : Robert Nowakowski  
 Collection Date : 12/07/10 16:15

ESC Sample # : L493126-05  
 Site ID : OLD FORT NC  
 Project # : 010059

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	82.9			%		2540G	12/15/10	1
Mercury	U	0.0015	0.024	mg/kg		7471	12/12/10	1
Arsenic	13.	1.6	6.0	mg/kg		6010B	12/15/10	5
Barium	460	0.25	1.5	mg/kg		6010B	12/15/10	5
Cadmium	0.42	0.20	1.5	mg/kg	J	6010B	12/15/10	5
Chromium	55.	0.42	3.0	mg/kg		6010B	12/15/10	5
Lead	43.	0.45	1.5	mg/kg		6010B	12/15/10	5
Selenium	75.	1.6	6.0	mg/kg		6010B	12/15/10	5
Silver	U	0.82	3.0	mg/kg		6010B	12/17/10	5
Volatile Organics								
Acetone	U	0.052	0.30	mg/kg		8260B	12/12/10	5
Acrylonitrile	U	0.013	0.060	mg/kg		8260B	12/12/10	5
Benzene	U	0.0021	0.0060	mg/kg		8260B	12/12/10	5
Bromobenzene	U	0.0015	0.0060	mg/kg		8260B	12/12/10	5
Bromodichloromethane	U	0.0017	0.0060	mg/kg		8260B	12/12/10	5
Bromoform	U	0.0016	0.0060	mg/kg		8260B	12/12/10	5
Bromomethane	U	0.0078	0.030	mg/kg		8260B	12/12/10	5
n-Butylbenzene	U	0.0017	0.0060	mg/kg		8260B	12/12/10	5
sec-Butylbenzene	U	0.0015	0.0060	mg/kg		8260B	12/12/10	5
tert-Butylbenzene	U	0.0014	0.0060	mg/kg		8260B	12/12/10	5
Carbon tetrachloride	U	0.0021	0.0060	mg/kg		8260B	12/12/10	5
Chlorobenzene	U	0.0017	0.0060	mg/kg		8260B	12/12/10	5
Chlorodibromomethane	U	0.0015	0.0060	mg/kg		8260B	12/12/10	5
Chloroethane	U	0.0098	0.030	mg/kg		8260B	12/12/10	5
2-Chloroethyl vinyl ether	U	0.091	0.30	mg/kg		8260B	12/12/10	5
Chloroform	U	0.0022	0.030	mg/kg		8260B	12/12/10	5
Chloromethane	U	0.0052	0.015	mg/kg		8260B	12/12/10	5
2-Chlorotoluene	U	0.0016	0.0060	mg/kg		8260B	12/12/10	5
4-Chlorotoluene	U	0.0015	0.0060	mg/kg		8260B	12/12/10	5
1,2-Dibromo-3-Chloropropane	U	0.0053	0.030	mg/kg		8260B	12/12/10	5
1,2-Dibromoethane	U	0.0015	0.0060	mg/kg		8260B	12/12/10	5
Dibromomethane	U	0.0023	0.0060	mg/kg		8260B	12/12/10	5
1,2-Dichlorobenzene	U	0.0016	0.0060	mg/kg		8260B	12/12/10	5
1,3-Dichlorobenzene	U	0.0014	0.0060	mg/kg		8260B	12/12/10	5
1,4-Dichlorobenzene	U	0.0018	0.0060	mg/kg		8260B	12/12/10	5
Dichlorodifluoromethane	U	0.0021	0.030	mg/kg		8260B	12/12/10	5
1,1-Dichloroethane	U	0.0021	0.0060	mg/kg		8260B	12/12/10	5
1,2-Dichloroethane	U	0.0019	0.0060	mg/kg		8260B	12/12/10	5
1,1-Dichloroethene	U	0.0026	0.0060	mg/kg		8260B	12/12/10	5
cis-1,2-Dichloroethene	U	0.0026	0.0060	mg/kg		8260B	12/12/10	5

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REPORT OF ANALYSIS

December 22, 2010

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

ESC Sample # : L493126-05

Date Received : December 10, 2010  
 Description : Old Fort

Site ID : OLD FORT NC

Sample ID : SB4 7-9 FT

Project # : 010059

Collected By : Robert Nowakowski  
 Collection Date : 12/07/10 16:15

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
trans-1,2-Dichloroethene	U	0.0021	0.0060	mg/kg		8260B	12/12/10	5
1,2-Dichloropropane	U	0.0030	0.0060	mg/kg		8260B	12/12/10	5
1,1-Dichloropropene	U	0.0017	0.0060	mg/kg		8260B	12/12/10	5
1,3-Dichloropropane	U	0.0019	0.0060	mg/kg		8260B	12/12/10	5
cis-1,3-Dichloropropene	U	0.0015	0.0060	mg/kg		8260B	12/12/10	5
trans-1,3-Dichloropropene	U	0.0020	0.0060	mg/kg		8260B	12/12/10	5
2,2-Dichloropropane	U	0.0018	0.0060	mg/kg		8260B	12/12/10	5
Di-isopropyl ether	U	0.0018	0.0060	mg/kg		8260B	12/12/10	5
Ethylbenzene	U	0.0016	0.0060	mg/kg		8260B	12/12/10	5
Hexachloro-1,3-butadiene	U	0.0017	0.0060	mg/kg		8260B	12/12/10	5
Isopropylbenzene	U	0.0017	0.0060	mg/kg		8260B	12/12/10	5
p-Isopropyltoluene	U	0.0016	0.0060	mg/kg		8260B	12/12/10	5
2-Butanone (MEK)	U	0.022	0.060	mg/kg		8260B	12/12/10	5
Methylene Chloride	U	0.0024	0.030	mg/kg		8260B	12/12/10	5
4-Methyl-2-pentanone (MIBK)	U	0.011	0.060	mg/kg		8260B	12/12/10	5
Methyl tert-butyl ether	U	0.0018	0.0060	mg/kg		8260B	12/12/10	5
Naphthalene	U	0.0014	0.030	mg/kg		8260B	12/12/10	5
n-Propylbenzene	U	0.0016	0.0060	mg/kg		8260B	12/12/10	5
Styrene	U	0.0012	0.0060	mg/kg		8260B	12/12/10	5
1,1,1,2-Tetrachloroethane	U	0.0020	0.0060	mg/kg		8260B	12/12/10	5
1,1,2,2-Tetrachloroethane	U	0.0014	0.0060	mg/kg		8260B	12/12/10	5
1,1,2-Trichloro-1,2,2-trifluoro	U	0.0043	0.0060	mg/kg		8260B	12/12/10	5
Tetrachloroethene	U	0.0022	0.0060	mg/kg		8260B	12/12/10	5
Toluene	U	0.0017	0.030	mg/kg		8260B	12/12/10	5
1,2,3-Trichlorobenzene	U	0.0015	0.0060	mg/kg		8260B	12/12/10	5
1,2,4-Trichlorobenzene	U	0.0019	0.0060	mg/kg		8260B	12/12/10	5
1,1,1-Trichloroethane	U	0.0023	0.0060	mg/kg		8260B	12/12/10	5
1,1,2-Trichloroethane	U	0.0027	0.0060	mg/kg		8260B	12/12/10	5
Trichloroethene	U	0.0017	0.0060	mg/kg		8260B	12/12/10	5
Trichlorofluoromethane	U	0.0035	0.030	mg/kg		8260B	12/12/10	5
1,2,3-Trichloropropane	U	0.0034	0.0060	mg/kg		8260B	12/12/10	5
1,2,4-Trimethylbenzene	U	0.0017	0.0060	mg/kg	J	8260B	12/12/10	5
1,2,3-Trimethylbenzene	U	0.0016	0.0060	mg/kg		8260B	12/12/10	5
1,3,5-Trimethylbenzene	U	0.0015	0.0060	mg/kg		8260B	12/12/10	5
Vinyl chloride	U	0.0026	0.0060	mg/kg		8260B	12/12/10	5
Xylenes, Total	U	0.0023	0.018	mg/kg		8260B	12/12/10	5
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	12/12/10	5
Dibromofluoromethane	101.			% Rec.		8260B	12/12/10	5
4-Bromofluorobenzene	96.0			% Rec.		8260B	12/12/10	5
Base/Neutral Extractables								
Acenaphthene	U	0.024	0.040	mg/kg		8270C	12/20/10	1

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REPORT OF ANALYSIS

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

December 22, 2010

Date Received : December 10, 2010  
 Description : Old Fort  
 Sample ID : SB4 7-9 FT  
 Collected By : Robert Nowakowski  
 Collection Date : 12/07/10 16:15

ESC Sample # : L493126-05  
 Site ID : OLD FORT NC  
 Project # : 010059

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Acenaphthylene	U	0.0087	0.040	mg/kg		8270C	12/20/10	1
Anthracene	U	0.0074	0.040	mg/kg		8270C	12/20/10	1
Benzidine	U	0.046	0.40	mg/kg		8270C	12/20/10	1
Benzo(a)anthracene	U	0.0093	0.040	mg/kg		8270C	12/20/10	1
Benzo(b)fluoranthene	U	0.0098	0.040	mg/kg		8270C	12/20/10	1
Benzo(k)fluoranthene	U	0.0089	0.040	mg/kg		8270C	12/20/10	1
Benzo(g,h,i)perylene	U	0.0090	0.040	mg/kg		8270C	12/20/10	1
Benzo(a)pyrene	U	0.0085	0.040	mg/kg		8270C	12/20/10	1
Bis(2-chloroethoxy)methane	U	0.0077	0.40	mg/kg		8270C	12/20/10	1
Bis(2-chloroethyl)ether	U	0.012	0.40	mg/kg		8270C	12/20/10	1
Bis(2-chloroisopropyl)ether	U	0.0087	0.40	mg/kg		8270C	12/20/10	1
4-Bromophenyl-phenylether	U	0.0092	0.40	mg/kg		8270C	12/20/10	1
2-Chloronaphthalene	U	0.0072	0.040	mg/kg		8270C	12/20/10	1
4-Chlorophenyl-phenylether	U	0.0069	0.40	mg/kg		8270C	12/20/10	1
Chrysene	U	0.013	0.040	mg/kg		8270C	12/20/10	1
Dibenz(a,h)anthracene	U	0.0068	0.040	mg/kg		8270C	12/20/10	1
3,3-Dichlorobenzidine	U	0.038	0.40	mg/kg		8270C	12/20/10	1
2,4-Dinitrotoluene	U	0.010	0.40	mg/kg		8270C	12/20/10	1
2,6-Dinitrotoluene	U	0.0088	0.40	mg/kg		8270C	12/20/10	1
Fluoranthene	U	0.011	0.040	mg/kg		8270C	12/20/10	1
Fluorene	U	0.0078	0.040	mg/kg		8270C	12/20/10	1
Hexachlorobenzene	U	0.0083	0.40	mg/kg		8270C	12/20/10	1
Hexachloro-1,3-butadiene	U	0.0076	0.40	mg/kg		8270C	12/20/10	1
Hexachlorocyclopentadiene	U	0.037	0.40	mg/kg		8270C	12/20/10	1
Hexachloroethane	U	0.0074	0.40	mg/kg		8270C	12/20/10	1
Indeno(1,2,3-cd)pyrene	U	0.0073	0.040	mg/kg		8270C	12/20/10	1
Isophorone	U	0.0060	0.40	mg/kg		8270C	12/20/10	1
Naphthalene	U	0.0072	0.040	mg/kg		8270C	12/20/10	1
Nitrobenzene	U	0.0074	0.40	mg/kg		8270C	12/20/10	1
n-Nitrosodimethylamine	U	0.10	0.40	mg/kg		8270C	12/20/10	1
n-Nitrosodiphenylamine	U	0.0087	0.40	mg/kg	J4	8270C	12/20/10	1
n-Nitrosodi-n-propylamine	U	0.0087	0.40	mg/kg		8270C	12/20/10	1
Phenanthrene	U	0.0085	0.040	mg/kg		8270C	12/20/10	1
Benzylbutyl phthalate	U	0.023	0.40	mg/kg		8270C	12/20/10	1
Bis(2-ethylhexyl)phthalate	U	0.072	0.40	mg/kg		8270C	12/20/10	1
Di-n-butyl phthalate	U	0.018	0.40	mg/kg		8270C	12/20/10	1
Diethyl phthalate	U	0.0068	0.40	mg/kg		8270C	12/20/10	1
Dimethyl phthalate	U	0.0068	0.40	mg/kg		8270C	12/20/10	1
Di-n-octyl phthalate	U	0.023	0.40	mg/kg		8270C	12/20/10	1
Pyrene	U	0.010	0.040	mg/kg		8270C	12/20/10	1
1,2,4-Trichlorobenzene	U	0.0066	0.40	mg/kg		8270C	12/20/10	1
Acid Extractables								
4-Chloro-3-methylphenol	U	0.0092	0.40	mg/kg		8270C	12/20/10	1

Results listed are dry weight basis.

U = ND (Not Detected)

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REPORT OF ANALYSIS

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 32310 Coventry Place  
 Warren, MI 48093

December 22, 2010

Date Received : December 10, 2010  
 Description : Old Fort  
 Sample ID : SB4 7-9 FT  
 Collected By : Robert Nowakowski  
 Collection Date : 12/07/10 16:15

ESC Sample # : L493126-05  
 Site ID : OLD FORT NC  
 Project # : 010059

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Chlorophenol	U	0.0064	0.40	mg/kg		8270C	12/20/10	1
2,4-Dichlorophenol	U	0.0074	0.40	mg/kg		8270C	12/20/10	1
2,4-Dimethylphenol	U	0.062	0.40	mg/kg		8270C	12/20/10	1
4,6-Dinitro-2-methylphenol	U	0.065	0.40	mg/kg		8270C	12/20/10	1
2,4-Dinitrophenol	U	0.069	0.40	mg/kg		8270C	12/20/10	1
2-Nitrophenol	U	0.012	0.40	mg/kg		8270C	12/20/10	1
4-Nitrophenol	U	0.064	0.40	mg/kg		8270C	12/20/10	1
Pentachlorophenol	U	0.048	0.40	mg/kg		8270C	12/20/10	1
Phenol	U	0.0063	0.40	mg/kg		8270C	12/20/10	1
2,4,6-Trichlorophenol	U	0.0089	0.40	mg/kg		8270C	12/20/10	1
Surrogate Recovery								
2-Fluorophenol	59.7			% Rec.		8270C	12/20/10	1
Phenol-d5	67.5			% Rec.		8270C	12/20/10	1
Nitrobenzene-d5	52.2			% Rec.		8270C	12/20/10	1
2-Fluorobiphenyl	66.2			% Rec.		8270C	12/20/10	1
2,4,6-Tribromophenol	53.4			% Rec.		8270C	12/20/10	1
p-Terphenyl-d14	100.			% Rec.		8270C	12/20/10	1

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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The reported analytical results relate only to the sample submitted

Reported: 12/22/10 12:54 Printed: 12/22/10 14:42



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

December 22, 2010

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

Date Received : December 10, 2010  
 Description : Old Fort  
 Sample ID : SB4 7-9 FT  
 Collected By : Robert Nowakowski  
 Collection Date : 12/07/10 16:15

ESC Sample # : L493126-06  
 Site ID : OLD FORT NC  
 Project : 010059

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	12/15/10 0809	MVE	1
TCLP Pesticides								
Chlordane	BDL	0.0050	mg/l	0.030	8081A	12/17/10 1153	ADF	1
Endrin	BDL	0.0050	mg/l	0.020	8081A	12/17/10 1153	ADF	1
Heptachlor	BDL	0.0050	mg/l	0.0080	8081A	12/17/10 1153	ADF	1
Lindane	BDL	0.0050	mg/l	0.40	8081A	12/17/10 1153	ADF	1
Methoxychlor	BDL	0.0050	mg/l	10.	8081A	12/17/10 1153	ADF	1
Toxaphene	BDL	0.010	mg/l	0.50	8081A	12/17/10 1153	ADF	1
Surrogate Recovery								
Decachlorobiphenyl	82.7		% Rec.	123.	8081A	12/17/10 1153	ADF	1
Tetrachloro-m-xylene	69.8		% Rec.	114.	8081A	12/17/10 1153	ADF	1
TCLP Herbicides								
2,4,5-TP (Silvex)	BDL	0.0020	mg/l	1.0	8151A	12/20/10 1257	KLM	1
2,4-D	BDL	0.0020	mg/l	10.	8151A	12/20/10 1257	KLM	1
Surrogate Recovery								
2,4-Dichlorophenyl Acetic Acid	101.		% Rec.		8151A	12/20/10 1257	KLM	1

BDL - Below Detection Limit  
 Det. Limit - Estimated Quantitation Limit (EQL)  
 Limit - Maximum Contaminant Level as established by the US EPA  
 Note:  
 The reported analytical results relate only to the sample submitted.  
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 Reported: 12/22/10 12:54 Printed: 12/22/10 14:42

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L493126-01	WG512840	SAMP	Cadmium	R1506260	O
	WG513570	SAMP	Silver	R1508078	O
	WG513446	SAMP	n-Nitrosodiphenylamine	R1507572	J4
	WG512762	SAMP	1,2,3-Trimethylbenzene	R1503274	J
	WG512762	SAMP	1,3,5-Trimethylbenzene	R1503274	J
	WG512762	SAMP	Xylenes, Total	R1503274	J
L493126-02	WG512840	SAMP	Cadmium	R1506260	J
	WG513570	SAMP	Silver	R1508078	O
	WG513446	SAMP	n-Nitrosodiphenylamine	R1507572	J4
	WG512762	SAMP	1,2,4-Trimethylbenzene	R1503274	J
	WG512762	SAMP	1,3,5-Trimethylbenzene	R1503274	J
	WG512762	SAMP	Xylenes, Total	R1503274	J
L493126-04	WG512840	SAMP	Cadmium	R1506260	O
	WG512763	SAMP	Mercury	R1503954	J
	WG513446	SAMP	n-Nitrosodiphenylamine	R1507572	J4
	WG512762	SAMP	1,3,5-Trimethylbenzene	R1503274	J
	WG512762	SAMP	Xylenes, Total	R1503274	J
L493126-05	WG512840	SAMP	Cadmium	R1506260	J
	WG513446	SAMP	n-Nitrosodiphenylamine	R1507572	J4
	WG512762	SAMP	1,2,4-Trimethylbenzene	R1503274	J

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J4	The associated batch QC was outside the established quality control range for accuracy.
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy** - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision** - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate** - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC** - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Company Name/Address:  
**RJN Environmental, Inc.**  
 32310 Coventry Place  
 Warren, MI 48093

Alternate billing information:

Analysis/Container/Preser  
 E169

Chain of Custody  
 Page 1 of 1  
 Prepared by:  
**ENVIRONMENTAL SCIENCE CORP.**  
 12065 Lebanon Road  
 Mt. Juliet, TN 37122  
 Phone (615) 758-5858  
 Phone (800) 767-5859  
 FAX (615) 758-5859

Report to: **ROBERT NOWAKOWSKI**

Email to: **RJN@RJNENV.COM**

Project Description: **OLD FORT**

City/State Collected: **North Carolina**

Phone: **(586) 744-3530**  
 FAX:

Client Project #: **010059**

ESC Key:

Collected by: **ROBERT NOWAKOWSKI**

Site/Facility ID#:

P.O.#:

Collected by (signature):  
 Immediately Packed on Ice N Y

**Rush?** (Lab MUST Be Notified)  
 \_\_\_ Same Day..... 200%  
 \_\_\_ Next Day..... 100%  
 \_\_\_ Two Day..... 50%  
 \_\_\_ Three Day..... 25%

Date Results Needed:  
 Email? \_\_\_ No \_\_\_ Yes  
 FAX? \_\_\_ No \_\_\_ Yes

PCRA Metals	5VOCs 82270	5VOCs 82260	TCLP except pest/herb
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

CoCode: **RJNENVWM** (lab use only)  
 Template/Prelogin  
 Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Remarks/Contaminant	Sample # (lab only)
SB1 10-12'	6	SS		12/7/10	1440	4		L4931260
SB2 5-6'	6	SS		12/7/10	1525	6		02/03
SB3 3-5'	6	SS		12/7/10	1545	5		04
SB4 7-9'	6	SS		12/7/10	1615	6		05/06

\*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other \_\_\_\_\_  
 pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Remarks: \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquished by: (Signature) <i>[Signature]</i>	Date: _____	Time: _____	Received by: (Signature) <i>[Signature]</i>	Samples returned via: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: (lab use only) <i>[Signature]</i>
Relinquished by: (Signature) <i>[Signature]</i>	Date: <b>12-9-10</b>	Time: <b>5pm</b>	Received by: (Signature) <i>[Signature]</i>	Temp: <b>31°</b>	Bottles Received: <b>22 + nb</b>
Relinquished by: (Signature) <i>[Signature]</i>	Date: _____	Time: _____	Received for lab by: (Signature) <i>[Signature]</i>	Date: <b>12-10-10</b>	Time: <b>0900</b>



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Est. 1970

Bob Nowakowski, C.P.G.  
RJN Environmental, Inc.  
32310 Coventry Place  
Warren, MI 48093

## Report Summary

Thursday December 30, 2010

Report Number: L495096

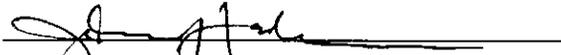
Samples Received: 12/10/10

Client Project: 010059

Description: Old Fort Site Investigation

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

  
John Hawkins, ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140  
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,  
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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 Est. 1970

REPORT OF ANALYSIS

Bob Nowakowski, C.P.G.  
 RJN Environmental, Inc.  
 32310 Coventry Place  
 Warren, MI 48093

December 30, 2010

Date Received : December 10, 2010  
 Description : Old Fort  
 Sample ID : SB2 5-6 FT  
 Collected By : Robert Nowakowski  
 Collection Date : 12/07/10 15:25

ESC Sample # : L495096-01  
 Site ID : OLD FORT NC  
 Project : 010059

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	12/24/10 0710	AJN	1
Mercury	BDL	0.0010	mg/l	0.20	7470A	12/27/10 1125	WC	1
Arsenic	BDL	0.050	mg/l	5.0	6010B	12/28/10 1818	ESC	1
Barium	0.74	0.15	mg/l	100	6010B	12/28/10 1818	ESC	1
Cadmium	BDL	0.050	mg/l	1.0	6010B	12/28/10 1818	ESC	1
Chromium	BDL	0.050	mg/l	5.0	6010B	12/28/10 1818	ESC	1
Lead	BDL	0.050	mg/l	5.0	6010B	12/28/10 1818	ESC	1
Selenium	BDL	0.050	mg/l	1.0	6010B	12/28/10 1818	ESC	1
Silver	BDL	0.050	mg/l	5.0	6010B	12/28/10 1818	ESC	1
TCLP ZHE Extraction	-				1311	12/24/10 0710	LJN	1
TCLP Volatiles								
Benzene	BDL	0.050	mg/l	0.50	8260B	12/24/10 2202	JAH	1
Carbon tetrachloride	BDL	0.050	mg/l	0.50	8260B	12/24/10 2202	JAH	1
Chlorobenzene	BDL	0.050	mg/l	100	8260B	12/24/10 2202	JAH	1
Chloroform	BDL	0.25	mg/l	6.0	8260B	12/24/10 2202	JAH	1
1,2-Dichloroethane	BDL	0.050	mg/l	0.50	8260B	12/24/10 2202	JAH	1
1,1-Dichloroethene	BDL	0.050	mg/l	0.70	8260B	12/24/10 2202	JAH	1
2-Butanone (MEK)	BDL	0.50	mg/l	200	8260B	12/24/10 2202	JAH	1
Tetrachloroethene	BDL	0.050	mg/l	0.70	8260B	12/24/10 2202	JAH	1
Trichloroethene	BDL	0.050	mg/l	0.50	8260B	12/24/10 2202	JAH	1
Vinyl chloride	BDL	0.050	mg/l	0.20	8260B	12/24/10 2202	JAH	1
Surrogate Recovery								
Toluene-d8	102.		% Rec.	114.	8260B	12/24/10 2202	JAH	1
Dibromofluoromethane	103.		% Rec.	125.	8260B	12/24/10 2202	JAH	1
a,a,a-Trifluorotoluene	107.		% Rec.	114.	8260B	12/24/10 2202	JAH	1
4-Bromofluorobenzene	107.		% Rec.	128.	8260B	12/24/10 2202	JAH	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Limit - Maximum Contaminant Level as established by the US EPA

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 12/29/10 16:40 Revised: 12/30/10 09:54

Company Name/Address: **RJN Environmental, Inc.**  
 32310 Coventry Place  
 Warren, MI 48093

Alternate billing information:

Analysis/Container/Preser: **E169**

Chain of Custody Page 1 of 1

Report to: **ROBERT NOWAKOWSKI** Email to: **RJN@RJNENV.COM**

Project Description: **OLD FORT** City/State Collected: **North Carolina**

Phone: **(586) 744-3530** Client Project #: **010059** ESC Key:

FAX:

Collected by: **ROBERT NOWAKOWSKI** Site/Facility ID#: P.O.#:

Collected by (signature): *[Signature]*

Rush? (Lab MUST Be Notified)  
 Same Day ..... 200%  
 Next Day ..... 100%  
 Two Day ..... 50%  
 Three Day ..... 25%

Date Results Needed:  
 Email?  No  Yes  
 FAX?  No  Yes

Immediately Packed on Ice N  Y

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Analysis/Container/Preser	Remarks/Contaminant	Sample # (lab only)
SB1 10-12'	6	SS		12/1/10	1440	6	RECA Metals SVOCs 8270 VOCs 8260 TLCP EXCEPT METALS		L493126-01
SB2 5-6'	6	SS		12/7/10	1525	6		L495096-01	02/03
SB3 3-5'	6	SS		12/7/10	1545	5			04
SB4 7-9'	6	SS		12/7/10	1615	6		02	05/06

Prepared by:

**ENVIRONMENTAL SCIENCE CORP.**  
 12065 Lebanon Road  
 Mt. Juliet, TN 37122

Phone (615) 758-5858  
 Phone (800) 767-5859  
 FAX (615) 758-5859

CoCode **RJNENVWM** (lab use only)  
 Template/Prelogin  
 Shipped Via:

Remarks/Contaminant	Sample # (lab only)
	L493126-01
L495096-01	02/03
	04
02	05/06

\*Matrix: **SS** - Soil/Solid **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other \_\_\_\_\_

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquished by: (Signature) *[Signature]* Date: **12-9-10** Time: **3:15**

Received by: (Signature) *[Signature]* Date: **12-9-10** Time: **3:15**

Samples returned via:  UPS  FedEx  Courier

Condition: (lab use only) **OK**

Temp: **31°C** Bottles Received: **22 + mb**

CoC Seals Intact:  Y  N  NA

Relinquished by: (Signature) *[Signature]* Date: **12-10-10** Time: **0900**

Received for lab by: (Signature) *[Signature]* Date: **12-10-10** Time: **0900**

pH Checked: NCF: