July 31, 2008

Department of Environment and Natural Resources
Division of Waste Management
Solid Waste Section
401 Oberlin Road, Suite 150
Raleigh, North Carolina 27605

Attention: Mr. Ervin Lane
Hydrogeologist

Reference: May 2008 Semi-annual Monitoring Report
City of Durham Closed Municipal Solid Waste Landfill
Permit No. 32-01
Durham County, North Carolina
S&ME Project No. 1054-07-469

Dear Ervin:

On behalf of the City of Durham Department of Water Management, S&ME, Inc. (S&ME) is submitting this report *May 2008 Monitoring Report, Semi-Annual Monitoring of Groundwater and Surface Water* which documents the results of the May 19, 2008, compliance monitoring event at the above-referenced facility. This report includes a discussion of field activities and measurements, estimates of groundwater flow directions in the vicinity of the closed landfill, and laboratory analytical results of the organic and inorganic constituents.

During the May 2008 event, several organic constituents were detected above their laboratory method detection limits (MDLs). Seven of these constituents (benzene, 1,4-dichlorobenzene, cis-1,2 dichloroethene, trans-1,2-dichloroethene, 1,2-dichloropropane, trichloroethene, and vinyl chloride) were detected above their respective Solid Waste Section Limits (SWSLs). Five of these constituents (benzene, 1,4-dichlorobenzene, cis-1,2 dichloroethene, 1,2-dichloropropane and vinyl chloride) were detected above their applicable Groundwater Quality Standards (2L).

Several inorganic constituents were detected above the laboratory MDLs. Vanadium was the only constituent detected above the SWSLs and applicable Solid Waste Section Groundwater Protection Standard (GWPST). Vanadium was detected in the sample from the background monitor well MW-9R and the compliance monitor well MW-3R.

In surface water samples collected during the May 2008 monitoring event (S-1, S-2, S-3 and S-4), no organic compounds from the Appendix I list were detected above the SWSLs.

Based on the continued detection of both organic compounds and inorganic constituents in groundwater exceeding NC 2L standards, S&ME recommends the Durham MSWLF continue under Assessment Monitoring for the next sampling event scheduled for November 2008.

It is our understanding that these detections have regulatory implications that need to be addressed by the City of Durham. Based on our understanding of the site, it appears MW-6R may have been installed inside of the waste disposal area of the landfill, or too close to the waste. S&ME recommends installing one new shallow monitor well in the vicinity of MW-6R, at least 50 feet outside the waste boundary. The groundwater potentiometric map included in the May 2008 Monitoring Report depicts the location of MW-6R, and the location of the proposed replacement well (MW-10).

As required by the North Carolina Solid Waste Management Rules, Assessment Monitoring as outlined in Title 15A NCAC 13B.1634 would include analysis of the constituents included in Appendix II of 40 CFR Part 258. 40 CFR Part 258 - "Appendix II List of Hazardous Inorganic and Organic Constituents".

Please call us at (919) 872-2660 if you have any questions or comments regarding the information presented in this report, or if we can be of further assistance.

Sincerely,
S&ME, Inc.

Gerald Paul
Environmental Staff Professional

Samuel P. Watts, P.G.
Senior Project Manager

cc: Ms. Nancy L. Newell, P.E. - City of Durham, Department of Water Management

Enclosure: *May 2008 Monitoring Report - Semi-Annual Monitoring of Groundwater and Surface Water*, dated July 30, 2008.

DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

S&ME, Inc.

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Jerry Paul or Sam Watts, P.G. Phone: (919) 872-2660

E-mail: jpaul@smeinc.com or swatts@smeinc.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
City of Durham - Closed Municipal Solid Waste Landfill	City of Durham Department of Water Management 1600 Mist Lake Drive Durham, NC 27704	32-01	.1600	May 19, 2008

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☐ Detection Monitoring ☒ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify)

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Samuel P. Watts, P.G. Senior Project Manager (919) 872-2660

Facility Representative Name (Print) Title (Area Code) Telephone Number

Signature 7/31/08 Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA LICENSED SEAL 1806 GEOLOGIST SAMUEL P. WATTS 7/31/08

Revised 01/2007

MAY 2008

MONITORING REPORT
SEMI-ANNUAL MONITORING OF GROUNDWATER AND SURFACE WATER

City Of Durham Closed Municipal
Solid Waste Landfill
Durham County
Durham, North Carolina
(DWM Permit No. 32-01)
S&ME Project Number 1054-07-469

Prepared for:

DURHAM
1869
CITY OF MEDICINE

CITY OF DURHAM
DEPARTMENT OF WATER MANAGEMENT
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Senior Project Manager

July 30, 2008

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1.0 INTRODUCTION

This report summarizes the monitoring results from the May 19, 2008 semi-annual groundwater and surface sampling and analysis monitoring event at the City of Durham Closed Landfill in Durham County, North Carolina. The monitoring event was performed in accordance with Title 15A of the North Carolina Administrative Code (NCAC) Subchapter 13B.1632. The City of Durham Landfill is a closed municipal solid waste (MSW) landfill and is maintained by the City of Durham Department of Water Management under Permit No. 32-01 issued by the North Carolina Department of Environment and Natural Resources , Division of Waste Management (NCDENR-DWM).

1.1 Site Description and Background

The subject property is a closed, unlined MSW landfill that ceased accepting wastes in 1997. The vicinity location of the facility is shown on **Figure 1,** with more details of the location and the immediate area shown on Figure 2. The landfill is located northeast of downtown Durham, near the North Durham Water Reclamation Facility off East Club Boulevard at Glenn Road.

According to the topographic map, elevations at the facility range from approximately 280 to 380 feet above mean sea level. In general, surface drainage from the facility and surrounding areas is routed by drainage channels and stormwater control structures toward Ellerbe Creek to the west of the facility. Locally, surface water flows in a radial direction, away from the closed and capped landfill toward unnamed streams to the northeast, south and west. These streams are tributaries of Ellerbe Creek, which flows into Falls Lake, located northeast of the landfill.

1.2 Compliance Monitoring History

Groundwater quality at the landfill has been monitored since 1989, and is currently monitored semiannually in accordance with the approved Water Quality Monitoring Plan (WQMP) prepared by Malcolm Pirnie, Inc. in April 1994 (MP, 1994). Assessment Monitoring was conducted for the landfill from November 1996 through June 1999 after the detection of benzene in the monitoring well MW-3R sample. Following the June 1999 monitoring event, the NCDENR Solid Waste Section (Section) granted approval for the City to return to Detection Monitoring. Detection Monitoring was conducted for the site from October 1999 through December 2004. At that time, based on additional detections of volatile organic compounds (VOCs), Assessment Monitoring was resumed during the June 2005 monitoring event (Weston, 2006). Groundwater quality monitoring continues as Assessment Monitoring at this time.

The facility's monitoring network consists of 12 monitor wells/piezometers and four surface water locations. Of the 12 wells/piezometers at the site, four (4) are used to

measure water levels only. The eight (8) wells used to collect water quality samples for laboratory analysis consist of one upgradient/background monitoring well (MW-9R) and seven downgradient compliance monitoring wells (MW-2, MW-3R, MW-4R, MW-5, MW-6R, MW-7R and MW-8). These compliance wells monitor the uppermost aquifer. Groundwater samples are analyzed for the NC Appendix II list during the May sampling events and for the NC Appendix I plus detected NC Appendix II constituents during the November sampling events. The facility's monitoring network also includes one upstream surface water monitoring point (S-4) and three downstream surface water sampling points (S-1, S-2 and S-3), which are sampled in conjunction with the groundwater monitoring wells. Surface water samples are analyzed semiannually for NC Appendix I constituents.

During the current groundwater monitoring event MW-9R replaced PZ-6 as the upgradient/background monitoring well due to the poor water quality and elevated metals concentrations detected in the background well (PZ-6). In addition, MW-3R replaced MW-3 as a compliance monitoring well. It was previously determined that MW-3 was located in or in close proximity to the landfill waste boundary. Prior to inclusion in the groundwater monitoring network, both wells (MW-3R and MW-9R) were sampled for full Appendix I constituents on May 1, 2008 to assess groundwater quality at these locations.

As previously indicated in the *November 2007-Groundwater Monitoring Report – Semi-Annual Monitoring of Groundwater and Surface Water* (S&ME, February 2008), MW-6R also appears to be located in or in close proximity to the landfill waste boundary. Due to its immediacy to buried waste, monitor well MW-6R does not meet the requirements listed under Section .1631(a) of the Solid Waste Rules (15A NCAC 13B). Ahead of the next sampling event, MW-6R is scheduled to be replaced by a groundwater monitoring well located outside of the delineated waste boundary. The replacement of MW-6R may provide a more accurate depiction of current groundwater conditions at the facility. The locations of MW-3, MW-3R, MW-6R and MW-10 (proposed replacement for MW-6R) in relation to the delineated waste boundary are shown on **Figure 3**.

1.3 Hydrogeologic Setting

Geologically, the facility is located within the Piedmont Physiographic Province of North Carolina and within the Durham Triassic Basin (NCGS, 1985). The Durham Basin is included in the Chatham Group of Triassic sediments, which include sandstones, mudstones, conglomerates and unconsolidated sediments occurring from the erosion of adjoining Piedmont Metavolcanic Rocks. The uppermost aquifer beneath the facility is unconfined and located within saprolite and weathered rock, which transitions into arkosic sandstone, siltstone and mudstone bedrock of the Pekin Formation. Site monitoring wells are screened in silty sands, silty to sandy clays, and sandstones of the Triassic saprolite soils and weathered rock. The depth to groundwater typically ranges from approximately 4 feet below grade along the western and southern perimeter of the

facility to nearly 50 feet below grade in the central and eastern portion of the facility. Historical static water level data are presented on **Table 1**.
As shown by the historical water level data, the hydraulic head level within the uppermost aquifer beneath the facility is fairly consistent. The range in water elevation fluctuation is greater in upgradient well, which is more centrally located to the regional groundwater recharge area. The range in fluctuation in the downgradient compliance wells, which are generally located nearer groundwater discharge areas, is less likely due to the stabilizing affect of hydraulic discharge boundaries.

Static water level measurements obtained on May 19, 2008 were used to prepare the groundwater potentiometric map presented on **Figure 3**. As shown by the potentiometric contours, groundwater flow across the majority of the site is projected to the northwest, west and southwest, which is consistent with previous groundwater data. Based on the May 19, 2008 groundwater potentiometric map, the hydraulic gradient in the uppermost aquifer underlying the site was measured along the projected flow paths shown on **Figure 3**. The average hydraulic gradient for the groundwater flow was calculated to be approximately 0.035 **(Table 2)**. An estimated effective porosity of 0.2 was used for the uppermost aquifer (Heath, 2001). Using the above values, the estimated rate of groundwater seepage flow within the monitored zone of the uppermost aquifer beneath the facility was calculated using the following modified Darcy equation:

$$Vgw = Ki/ne$$

Where Vgw = average seepage velocity (feet/year), K = hydraulic conductivity (feet/year), i = horizontal hydraulic gradient, and ne = effective porosity. The values for K and ne were based on estimates from Malcolm Pirnie, Inc's *City of Durham Municipal Solid Waste Landfill, December 1998 Groundwater Monitoring Letter Report,* dated January 29, 1999 and Weston Solutions, Inc.'s December 2005 Semiannual Event – Closed Durham City Landfill. The average calculated groundwater flow seepage velocity under the waste management unit is approximately 9.8 feet/year to the northwest, west and southwest **(Table 2)**.

1.4 Maintenance Activities

Since the last monitoring event in November 2007, the following maintenance activities have been conducted at the site:

1. Replaced eight bladder pumps – Prior to the May 2008 sampling event, the dedicated Teflon® bladder pumps in all wells to be sampled were in need of replacement parts. However, due to the age of the pumps replacement parts were unavailable. S&ME replaced the pumps in these wells (MW-2, MW-3R, MW-4R, MW-5, MW-6R, MW-7R, MW-8, and MW-9R) with modern bladder pumps with similar construction as the previous bladder pumps. In addition to the bladder pumps, the associated polyethylene tubing and dedicated sampling caps were also replaced.

2. Redeveloped wells – During the November 2007 sampling event, several wells exhibited high turbidity levels possibly contributing to elevated metals concentrations in several of the collected groundwater samples. In April 2008, site monitoring wells were redeveloped by pumping multiple casing volumes and physically surging the well screen to remove silts and clays that have naturally accumulated over time.

3. Performed rising head tests on eight monitor wells – During S&ME's initial semi-annual monitoring event (November 2007), groundwater flow calculations were calculated using groundwater data from previously submitted reports . In May 2008, S&ME conducted rising head slug testing to better understand the current groundwater conditions at the site. S&ME personnel performed the rising head tests on monitoring wells MW-2, MW-3R, MW-4R, MW-5, MW-6R, MW-7R, MW-8 and MW-9R. A copy of the Aqtesolv® rising head test results are included in **Appendix IV**.

4. Replaced locking devices and well identification tags – After the November 2007 sampling event, it was noted that several monitor wells were in need of lock replacement and monitor well identification tags. In May 2008, S&ME installed locks on all monitor wells and labeled all monitor wells so they can be clearly identified in the field.

2.0 FIELD PROGRAM, MONITORING RESULTS, AND DISCUSSION

Field activities conducted as part of the May 2008 sampling event are discussed in the following sections.

2.1 Visual Inspection Program

The visual inspection program is used at the City of Durham Closed Landfill to identify evidence of potential releases as early as possible. This program includes observing the site for visual evidence of a potential release such as potential water table mounding beneath the waste management unit, stresses in biological communities, visible signs of leachate migration (i.e., leachate seeps), unexplained changes in soil characteristics, and other visual evidence of changes to the waste management unit. During the May 2008 compliance monitoring event, no physical indicators of significant changes were observed in the vicinity of the waste management areas.

2.2 Monitoring Well Network

The network of groundwater monitoring wells at the City of Durham Closed Landfill consists of 12 wells/piezometers. Of these, four (4) are used to measure water levels only. The eight (8) wells used to collect water quality samples for laboratory analysis consist of MW-2, MW-3R, MW-4R, MW-5, MW-6R, MW-7R, MW-8 and MW-9R. Monitoring well construction information is summarized in **Table 3** and the well locations are shown on **Figure 3**. The network of monitoring wells was constructed to monitor the projected flow path for groundwater beneath the waste disposal areas. Monitoring well MW-9R is the facility's background well and is located hydraulically upgradient of the waste disposal area. Monitoring wells MW-2, MW-3R, MW-4R, MW-5, MW-6R, MW-7R and MW-8 are located downgradient or sidegradient of the waste disposal area and represent the facility's downgradient compliance wells.

2.3 May 2008 Sampling Event

On May 19, 2008, S&ME personnel conducted semi-annual groundwater sampling at eight monitoring wells at the City of Durham's Closed Landfill for the May 2008 sampling event **(Figure 1)**. A discussion of field sampling methods and locations for the May 2008 groundwater sampling event is provided below. S&ME personnel performed sampling at the facility in accordance with the Solid Waste Rules and the facility's *Water Quality Monitoring Plan* (WQMP), dated April 1994.

Prior to sampling, the wells were opened, allowed to equilibrate with atmospheric pressure and depth-to-water measurements were recorded to the nearest 0.01 foot using an electronic water level indicator. The electronic water level indicator was decontaminated before its initial use and between measurements at each well location.

Field personnel wore clean protective/non-reactive gloves at each well location when collecting water level measurements. In addition to the sampled wells (MW-2, MW-3R, MW-4R, MW-5, MW-6R, MW-7R, MW-8 and MW-9R), the depth to static groundwater was also measured in monitoring wells PZ-6, PZ-2R, PZ-3 and PZ-4R to provide additional data points for construction of the groundwater potentiometric map. The resulting water level elevations for this event were added to the historical water elevation data presented in **Table 1**.

Following the collection of static groundwater level measurements, monitoring wells MW-2, MW-3R, MW-4R, MW-5, MW-6R, MW-7R, MW-8 and MW-9R were purged and sampled with the dedicated bladder pumps. As purging proceeded, pH, temperature, specific conductivity, dissolved oxygen, and turbidity were measured and recorded. A groundwater sample was collected from each well after the field parameters stabilized. The field parameters measured immediately before collecting each groundwater sample is presented in **Table 5**. One blind duplicate groundwater sample set was collected from MW-6R for the purpose of Quality Assurance/Quality Control (QA/QC).

Prior to sampling, the laboratory-supplied sample containers were prepared. Each sample container was labeled with the sample identification number, sampling personnel, date and time of sample collection, project name and number, and requested chemical analyses. The required groundwater samples were collected directly from the bladder pump tubing into the labeled, laboratory-supplied, pre-preserved sample containers after purging. After collection, the samples were placed in a cooler on ice, under chain-of-custody control. Copies of the sampling logs are presented in **Appendix I**. Included in each log is a description of the sampling equipment, sampling method, field observations, and water quality measurements.

After the November 2007 semi-annual monitoring event, S&ME personnel removed all dedicated bladder pumps to evaluate their condition and to perform necessary maintenance of the dedicated sampling system. During this maintenance action it was discovered that several bladder pumps were in various states of disrepair, and as such, a decision was made to replace them. As a result, eight new bladder pumps were installed in the compliance and background wells. As part of this effort new polyethylene tubing and dedicated sampling caps were installed on each monitoring well.

In addition to the groundwater samples, surface water samples were collected from locations S-4 (upstream) and S-1, S-2, and S-3 (downstream) on May 2008. The surface water samples were collected directly from the stream flow, by lowering the sample containers into the stream flow with the opening facing into the current flow, taking care to prevent the over flow of the sample containers and to minimize sample-induced turbidity.

The May 2008 groundwater and surface water samples were submitted to Environmental Science Corporation (ESC) of Mt. Juliet Tennessee on May 20, 2007, under chain-of-custody protocols. The groundwater samples were submitted for analysis of NC Appendix II constituents. Surface water samples were analyzed for NC Appendix I

constituents. The results of analytical testing are discussed in Section 2.4 and a summary of compound concentrations detected during the May 2008 sampling event are presented in **Table 4 and Table 5**. A copy of the analytical laboratory report is provided in **Appendix II.**

2.4 Groundwater Quality

2.4.1 Methods and Standards

The NCDENR-DWM, Section has established groundwater quality criteria, termed the Solid Waste Section Limit (SWSL) regarding the detection of constituents in groundwater at levels below the previously used permissible quantitation limits (PQLs). The SWSL is defined as the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy and is the concentration below which reported analytical results must be qualified as estimated. The SWSL is the updated version of the PQL that appears in older North Carolina Solid Waste Section literature. The SWSL is the limit established by the laboratory survey conducted by the North Carolina Solid Waste Section. The Section also requires that laboratories report analytical results to the method detection limits (MDLs) rather than the PQL.

In reference to the constituents detected during this sampling event, the new SWSLs and MDLs are lower than the previous PQLs. For these reasons, several constituents that have not been reported as detected prior to 2007 were reported as detected in the November 2007 and May 2008 sampling events. In our opinion, these findings generally are not indicative of an increase in the presence of these constituents in the groundwater but rather due to changes in the reporting and evaluation standards.

2.4.2 Groundwater Analytical Data

Constituent concentrations detected in the groundwater samples above the laboratory MDLs are summarized on **Table 4**. For comparison purposes, these results are shown with their respective SWSL and 15A NCAC Subchapter 2L .0200 Groundwater Quality Standards (2L Standards). Where target groundwater constituents have no established 2L Standard, the analytical results were compared to the Solid Waste Groundwater Protection Standard (GWPST) established in accordance with the Solid Waste Management Rules, Section .1634(h). Upgradient (background) monitoring well MW-9R was sampled during the May 2008 sampling event. Downgradient (compliance) monitoring wells MW-2, MW-3R, MW-4R, MW-5, MW-6R, MW-7R, and MW-8 were also sampled during this sampling event. The duplicate groundwater sample was collected from monitor well MW-6R.

Volatiles No volatile organic compounds (VOCs) were detected in excess of the standards in the groundwater samples from upgradient (background) well MW-9R.

Several VOC detections above 2L Standards were reported from only one of the downgradient (compliance) well (MW-6R). In the MW-6R groundwater sample:

- Benzene (4.3 µg/L) exceeded the 2L standard (1.0 µg/L).
- 1, 2-Dichloropropane (3.3 µg/L) exceeded the 2L standard (0.51 µg/L).
- Cis-1, 2-dichloroethene (140 µg/L) exceeded the 2L standard (70 µg/L).
- 1, 4-Dichlorobenzene (4.6 µg/L) exceeded the 2L standard (1.4 µg/L).
- Vinyl chloride (21 µg/L) exceeded the 2L standard (0.015 µg/L).

Trichloroethene (1.6 µg/L) and trans-1, 2-dichloroethane (5.7 µg/L) were detected slightly above their SWSLs in the MW-6R sample but well below the 2L Standards.

The following VOCs were detected above the method detection limits but below the SWLS and below groundwater protection standards:

- Chlorobenzene (0.73 µg/L) in MW-6R.
- 1, 2-Dichlorobenzene (0.64 µg/L) in MW-6R.
- Toluene (0.45 µg/L) in MW-7R.
- 1, 4-Naphthoquinone (18 µg/L) in MW-7R.
- N-Nitrosodi-n-butylamine (3.8 µg/L) in MW-7R and (3.6 µg/L) in MW-8.

No VOCs were detected in any of the other compliance well groundwater samples above the respective standards **(Table 4)**.

Inorganics Groundwater from upgradient well MW-9R had six reported inorganic constituents at quantifiable concentrations in May 2008; these metals were barium, beryllium, cobalt, copper, vanadium and zinc. These same metals, in addition to antimony, arsenic, chromium, nickel and selenium were also reported above MDLs in one or more groundwater samples from downgradient wells during the May 2008 sampling event **(Table 4)**.

Site groundwater samples have been analyzed for both total metals (required) and dissolved metals (voluntary additional) since June 1996. The purpose of the dissolved analyses has been to provide additional data for interpretation of apparently high concentrations of total metals. Analysis of total metals provides the level of both dissolved and mobile particulate-associated metals available for potential transport. Typically, a dissolved (filtered) metal determination is less than its concentration as a total (unfiltered) metal, indicating that mobile particulates, removed by filtering for the dissolved analysis, contribute to the total concentration. A high total metals result paired with a low to non-detectable dissolved metals result suggests that the total metal concentration reported by the laboratory is primarily the result of mobile particulates (suspended solids), not dissolved metals, in the sample. Mobile particulates are frequently present in groundwater with high turbidity, such as has been previously

observed in groundwater sampled from several of the site wells, including MW-3R and MW-9R **(Table 5)**. As a result of the replacement of the dedicated pumps and redevelopment of the monitor wells in April 2008 which aided in achieving lower turbidity levels, dissolved metals were not analyzed for the May 2008 sampling event.

One inorganic constituent (vanadium) was detected above the ground water protection standard of (3.5 µg/L) in the following samples:

- Vanadium (MW-9R at 4.0 µg/L and MW-3R at 11 µg/L).

One inorganic constituent (barium) was detected above the SWSL but below the respective 2L standards and groundwater protection standards in the following samples:

- Barium (MW-3R, MW-4R, MW-5, MW-6R and MW-7R). The MW-6R duplicate was consistent with the MW-6R record sample).

2.4.3 Surface Water Analytical Data

As it is not required to establish background concentrations for surface water monitoring, downstream concentrations simply are compared to the upstream sample concentration and the appropriate 15A NCAC Subchapter 2B .0200 Surface Water Quality Standards (2B Standard)). This site is within the Neuse River Basin, and its surface waters are subject to Class WS-IV-NSW water quality standards, according to inquiries of personnel in the North Carolina Division of Water Quality.

Volatiles

In May 2008, samples were collected at surface water sampling points S-1, S-2, S-3, and S-4. The surface water samples were analyzed for Appendix I volatile organic compounds by EPA Method 8260B, semi-volatile organic compounds by Method 8270C, and organochlorine pesticides by Method 8081. The following results are shown with their respective 2B Standard. The surface water organic constituent data for the current and previous sampling events are summarized in **Table 5**. Chloroform was the only organic constituent that exceeded the MDL during the May 2008 semiannual sampling event. Chloroform was detected at the background surface water location of S-4 (0.66 µg/L) and the downstream sample location S-3 (0.58 µg/L), which are both above the MDL of 0.33 µg/L but below the SWSL of 5.0 µg/L. There is no established 2B Standard for chloroform.

Inorganics

In May 2008, samples were collected at surface water sampling points S-1, S-2, S-3, and S-4. The surface water inorganic constituent data for the current and previous sampling events are summarized in **Table 6**. Antimony, arsenic, barium, beryllium, copper, lead, vanadium and zinc were generally detected above MDLs in samples from both the

background and downstream surface water monitoring locations. The detected concentrations of inorganic constituents in the downstream samples were similar to the concentrations in the upstream sample, except for Vanadium. The detected concentrations of arsenic, beryllium, lead and vanadium were less than their respective 2B Standard. The concentration of copper was greater than its respective 2B Standard. There is currently no 2B standard established for antimony, barium or vanadium.

3.0 LABORATORY AND FIELD QA/QC

One blind duplicate/replicate groundwater sample set was collected from monitor well MW-6R. The concentrations of the VOCs and inorganic constituents detected in the duplicate/replicate sample from MW-6R were similar to the record sample.

One equipment blank was collected by S&ME personnel as part of the May 2008 groundwater sampling event. ESC analyzed the equipment blank for the same constituents as the groundwater samples Acetone was detected in the trip blank at 13 µg/L.

A laboratory-prepared trip blank accompanied the VOC sample containers to and from the laboratory. Acetone, N-Nitrosodi-n-butylamine, toluene and copper were detected in the equipment blank at estimated concentrations.

4.0 DATA EVALUATION

The results of the data evaluations are presented in the following sections.

4.1 Statistical Evaluations

Previous monitoring reports submitted to the Section for this facility have included a statistical evaluation of groundwater monitoring data for considering whether or not a detected analyte should be considered a release from the facility. For this sampling event, the historical data pool has been updated and included in this report (**Table 5** and **Table 6**); however, no statistical analysis was performed for the following reasons.

.1633(g) and (h) - Establish Background Conditions

Pursuant to the requirements of 15A NCAC 13B .1633 (Detection Monitoring) and .1634 (Assessment Monitoring), when concentrations are detected in one or more downgradient monitoring wells at levels above their respective SWSLs, these concentrations should be statistically evaluated in accordance with the procedures outlined in 15A NCAC 13B.1632(g) and (h) to determine if the reported concentrations exceeded the facility background concentration.

In reference to the constituents detected during the May 2007, November 2007 and May 2008 sampling events, the new SWSLs and MDLs are lower than the previous PQLs. For these reasons, several constituents that have not been reported as detected prior to 2007 were reported as detected in the May 2007, November 2007 and May 2008 sampling events. In our opinion, these findings generally are not indicative of an increase in the presence of these constituents in the groundwater but rather are due to changes in the reporting and evaluation standards. A new baseline sampling event using the lower SWSLs and MDLs should be conducted to “re-establish” background water quality at the facility.

In accordance with Section .1634 (b), it is recommended that a minimum of four independent samples be collected from each well (background and downgradient) to establish background for the newly detected constituents for statistical analysis. At least one additional sampling event is recommended to evaluate the statistical significance of these low level detections and “re-establish” background conditions.

.1634(g)(2) - Demonstrate that the Facility is Not Obliged to the Assess Nature and Extent of an Apparent Release

Based on additional detections of volatile organic compounds (VOCs) during the December 2004 sampling event (Weston, 2004), Assessment Monitoring was resumed during the June 2005 monitoring event. During the December 2004 sampling event, organic compounds were detected at monitor well MW-6R. Monitor well MW-6R was installed in early June 2004 to replace existing monitor well MW-6 since poor groundwater recovery and yield at MW-6 had prevented the use of the dedicated well pump at this location since December 1999.

Pursuant to the requirements of 15A NCAC 13B .1634(g)(2), if constituents are detected at statistically significant levels above the approved ground-water protection standards, the owner may use statistical procedures to demonstrate that the increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in ground-water quality. Data presented in the semi-annual sampling reports since December 2004 have not shown that the statistical procedures demonstrated such errors. It is recommended that the facility assess the nature and extent of the apparent release by installing additional monitoring wells, or evaluate the current water quality monitoring network (specifically MW-6R), as necessary. After the nature and extent of the apparent release has been assessed, or the water quality monitoring network has been evaluated, it would be appropriate to resume statistical analysis of the sampling data from the site.

4.2 North Carolina Groundwater and Surface Water Quality Standard Comparisons

Benzene; 1,4-dichlorobenzene; cis-1,2-dichloroethene; 1,2-dichloropropane and vinyl chloride were detected above their respective 2L Standards in MW-6R during the May 2008 event, as they have been during recent sampling events. Vanadium was detected in monitoring wells MW-3R and MW-9R above the GWPST during this event. No other organic or inorganic constituents were detected in groundwater above their respective groundwater protection standards (2L Standards or GWPST) during this event.

Copper was detected in the downstream surface water sample S-2 just above the 2B surface water standard (action limit). These concentrations are consistent with historical data and do not appear to indicate an impact to surface water by the facility.

5.0 CONCLUSIONS

During the May 2008 event, several organic constituents were detected above their laboratory method detection limits (MDLs). Seven of these constituents (benzene, 1,4-dichlorobenzene, cis-1,2 dichloroethene, trans-1,2-dichloroethene, 1,2-dichloropropane, trichloroethene, and vinyl chloride) were detected above their respective Solid Waste Section Limits (SWSLs). Five of these constituents (benzene, 1,4-dichlorobenzene, cis-1,2 dichloroethene, 1,2-dichloropropane and vinyl chloride) were detected above their applicable Groundwater Quality Standards (2L).

Several inorganic constituents were detected above the laboratory MDLs. Vanadium was the only constituent detected above the SWSLs and applicable Solid Waste Section Groundwater Protection Standard (GWPST) in the sample from the background monitor well MW-9R and MW-3R.

In surface water samples collected during the May 2008 monitoring event (S-1, S-2, S-3 and S-4), no organic compounds from the Appendix I list were detected above the SWSLs.

Several inorganic constituents were detected in the surface water samples above the laboratory MDLs. Antimony, arsenic, barium, beryllium, copper, lead, vanadium and zinc were detected above MDLs in samples from both the background and downstream surface water monitoring locations. The detected concentrations of inorganic constituents in the downstream sample were generally similar to the concentrations in the upstream sample. The detected concentrations of arsenic, beryllium, lead, vanadium and zinc were less than their respective 2B Standards. Copper was detected at a level equal to its respective 2B Standard. There is currently no 2B standard established for antimony, barium, and vanadium.

Net groundwater flow beneath the landfill is projected toward the northwest. Locally, groundwater appears to flow radially away from the closed and capped landfill toward streams nearly surrounding the former disposal area to the northeast, south, and west. Horizontal flow gradients and estimated linear velocities calculated for this monitoring event are consistent with the previous events. Based on the calculated direction of groundwater flow at the facility, the current configuration of the Water Quality Monitoring Network appears to adequately monitor the landfill.

Based on the continued detection of both organic compounds and inorganic constituents in groundwater exceeding 2L Standards in MW-6R, and the close proximity of the well to the landfill waste boundary, S&ME recommends the installation of a replacement well for MW-6R. In accordance with Section .1631 (a)(2)(a), the relevant point of compliance for the area near MW-6R shall be established no more than 250 feet from a waste boundary, and shall be at least 50 feet within the facility property boundary. The wooded area down gradient from MW-6R offers more than adequate space to re-locate the compliance monitoring well according to those criteria without sacrificing adequate coverage. The proposed location for the replacement monitor well near MW-6R is

depicted on the attached **Figure 3**. The well will be constructed in accordance with well construction requirements presented in 15 NCAC.2C and will be screened to intercept the surficial aquifer at a location clearly beyond the delineated waste boundary. S&ME recommends continuing Assessment Monitoring for the next sampling event scheduled for November 2008. The results of the groundwater samples collected from the replacement well for MW-6R may determine the need to continue assessment monitoring or possibly return the facility to a detection monitoring schedule.

As required by the North Carolina Solid Waste Management Rules, Assessment Monitoring as outlined in Title 15A NCAC 13B.1634 would include analysis of the constituents included in Appendix II of 40 CFR Part 258. 40 CFR Part 258 - "Appendix II List of Hazardous Inorganic and Organic Constituents".

A compact disk (CD) with an electronic copy of **Table 7** in Excel spreadsheet format (.xls) and an electronic copy of the report in portable document format (.pdf) is included in Appendix III.

6.0 REFERENCES

Heath, Ralph C., 1993, *Basic Ground-Water Hydrology*, USGS Water Supply Paper 2220.

MP 1994 (Malcolm Pirnie, Inc.), April 1994. *City of Durham Sanitary Landfill Water Quality Monitoring Plan.*

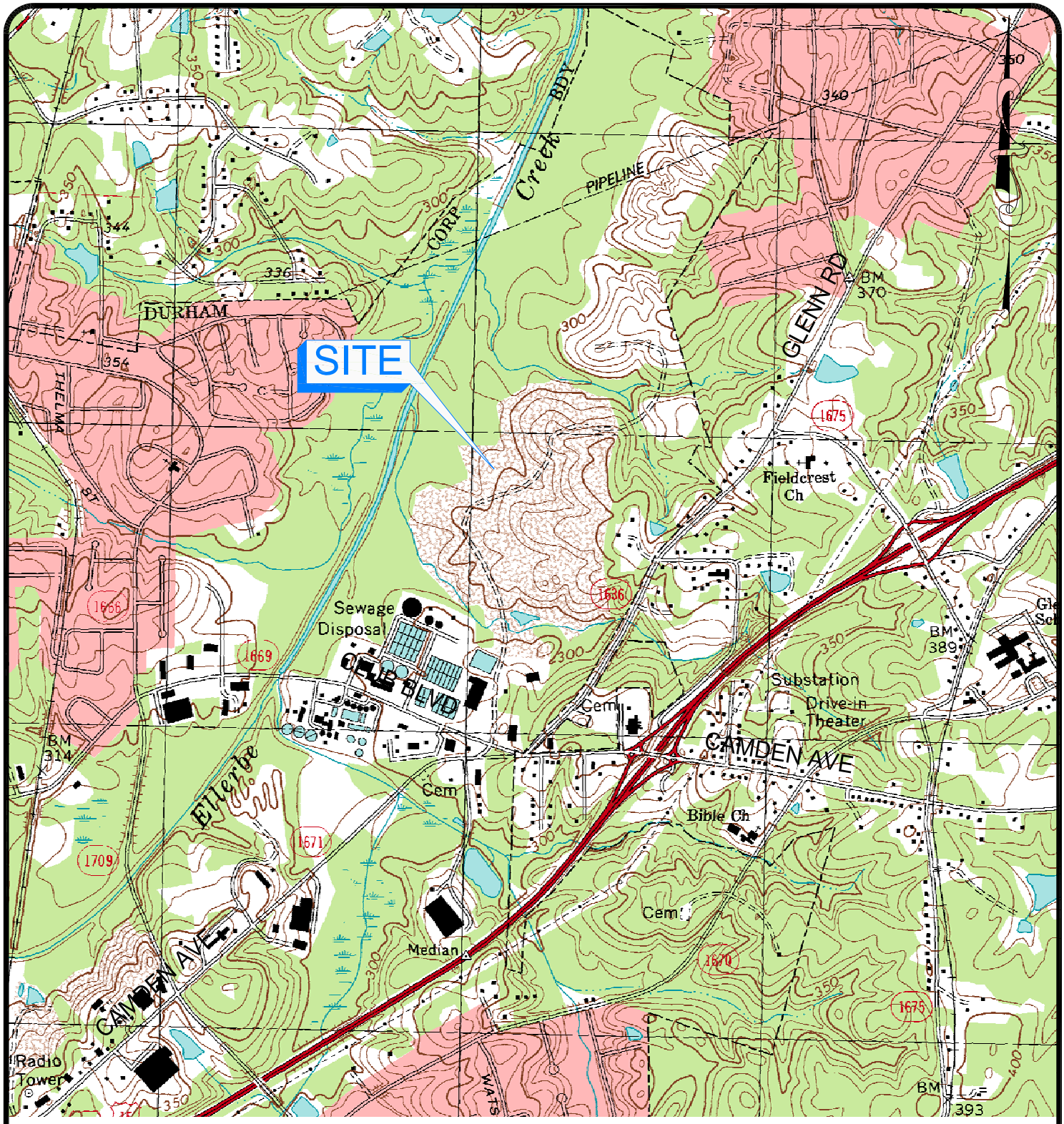
MP 1996 (Malcolm Pirnie, Inc.), December 1996. *City of Durham Municipal Solid Waste Landfill November 1996 Assessment Monitoring.*

NCGS (North Carolina Geologic Survey), 1985. Geologic Map of North Carolina. Scale 1:500,000.

S&ME, February 2008 (S&ME, Inc.), February 29, 2008. *November 2007-Groundwater Monitoring Report-Semi-Annual Monitoring of Groundwater and Surface Water.*

Weston 2006 (Weston Solutions, Inc.), February 2006. December 2005 Semiannual Event—Closed Durham City Landfill.

FIGURES



GRAPHIC SCALE

750 0 375 750 1500

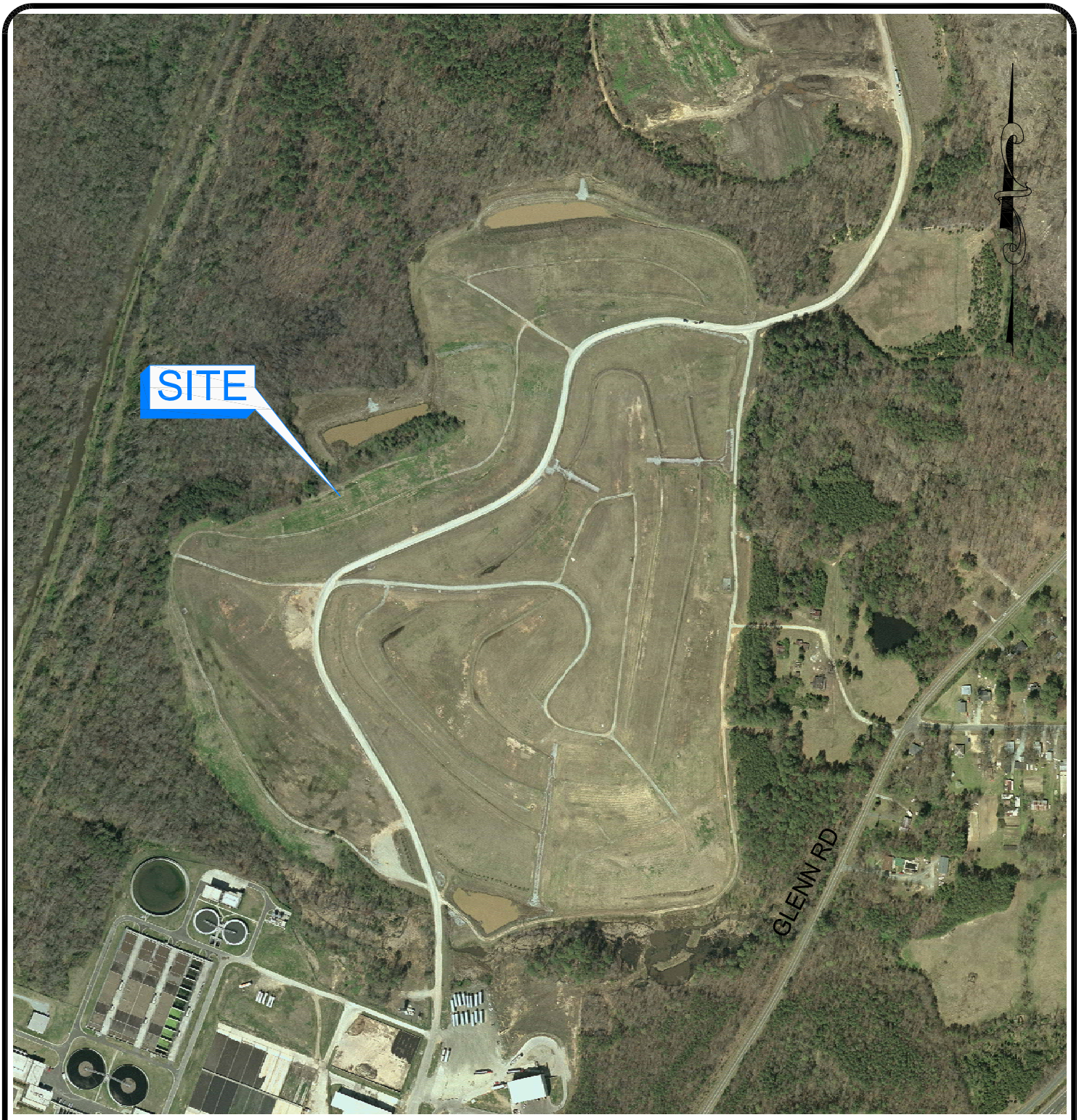
(IN FEET)

SOURCE: NCGS DRG
NE DURHAM (O36078A7), DATED 1999

A-1051

SCALE: 1" = 1500'	S&ME WWW.SMEINC.COM	VICINITY MAP CLOSED LANDFILL PERMIT #32-01 DURHAM, NORTH CAROLINA
DATE: DEC. 2007		FIGURE NO. 1
DRAWN BY: BTR		
PROJECT NO: 1054-07-469		

S:\PROJECTS\2007\07-469 City of Durham MSWLF\CAD\A1051.dwg, FIG1, 7/30/2008 3:54:04 PM, 1:1



GRAPHIC SCALE

250 0 125 250 500

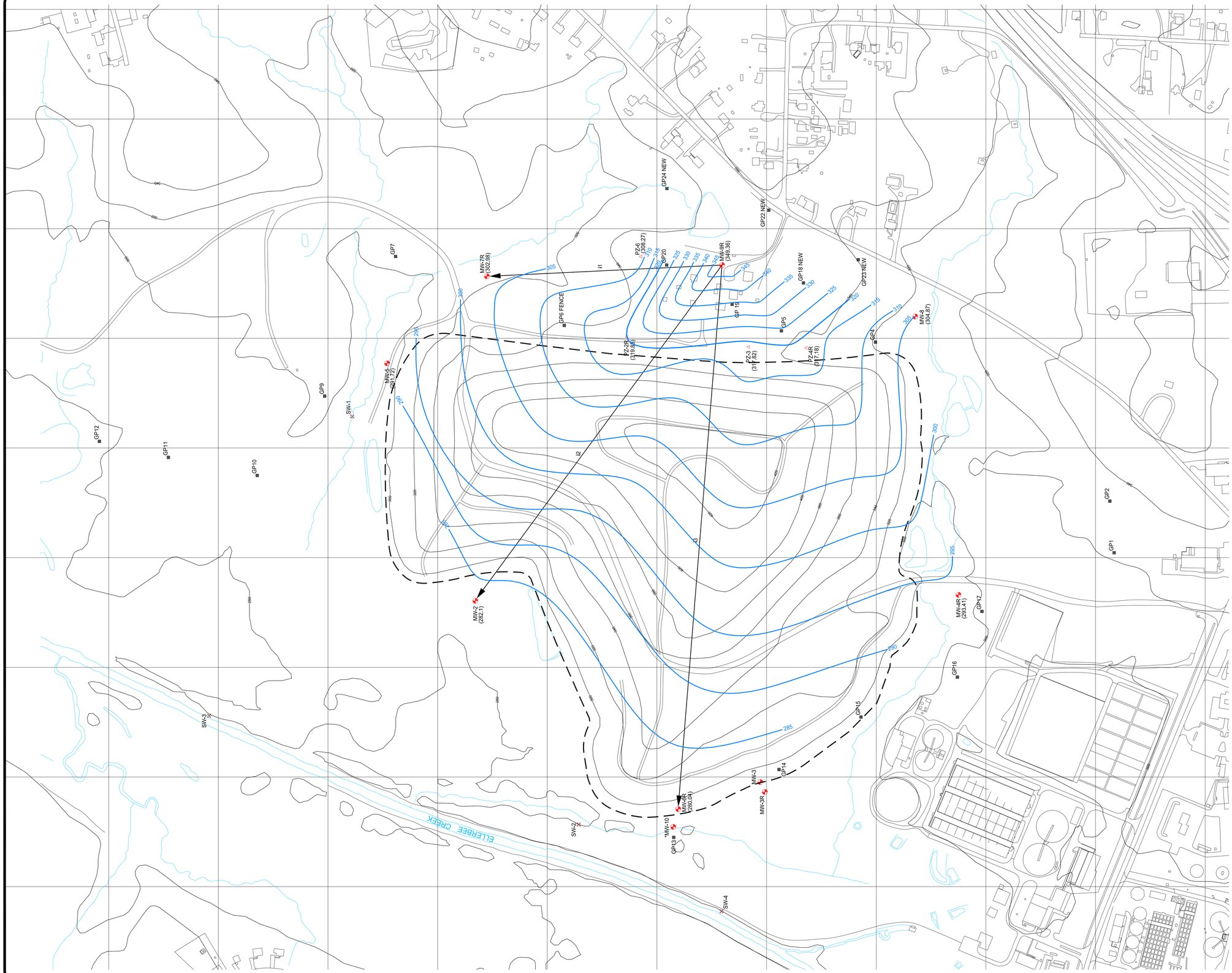
(IN FEET)

IMAGE SOURCE: DURHAM GIS
REF #s 54130488 & 88865549

A-1052

SCALE: 1" = 500'	S&ME WWW.SMEINC.COM	SITE MAP CLOSED LANDFILL PERMIT #32-01 DURHAM, NORTH CAROLINA
DATE: DEC. 2007		FIGURE NO. 2
DRAWN BY: BTR		
PROJECT NO: 1054-07-469		

S:\PROJECTS\2007\07-469 City of Durham MSWLF\CAD\A1052.dwg, A1052, 7/30/2008 3:50:09 PM, 1:1



LEGEND

- MONITOR WELLS
- PIEZOMETERS
- SURFACE WATER SAMPLE LOCATIONS
- GAS COMPLIANCE MONITORING POINTS
- CONTOUR LINE - MAJOR (20 FT)
- CONTOUR LINE - MINOR
- 285 GROUNDWATER CONTOUR WITH ELEVATION
- GROUNDWATER FLOW DIRECTION
- APPROXIMATE LIMIT OF WASTE

NOTE:

1.) MONITOR WELL LOCATIONS SURVEYED BY MULKEY ENGINEERING IN JANUARY 2001 AND 2005.

2.) WELLS MW-1, MW-4, MW-6, MW-7, MW-9, PZ-1, PZ-2 AND PZ-4 HAVE BEEN ABANDONED, DAMAGED OR DESTROYED AND ARE NOT SHOWN ON THIS MAP.

3.) TOPOGRAPHIC CONTOUR INTERVAL = 2 ft.

4.) GROUNDWATER SURFACE CONTOUR INTERVAL = 5 ft.

5.) GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOW DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS. THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL POTENTIOMETRIC CONDITIONS.

6.) GW ELEVATIONS MEASURED ON MAY 19, 2008.

7.) *MW-10 = REPLACEMENT WELL FOR MW-6R APPROXIMATE PROPOSED LOCATION.

GRAPHIC SCALE

400 0 200 400

(IN FEET)

SOURCE:
CONTOURS - NCDOT LIDAR DATED APRIL 2007
BUILDINGS - DURHAM GIS DATED 1994
IMAGERY - DURHAM GIS DATED 2005

S&ME
WWW.SMEINC.COM

NO.	DATE	DESCRIPTION	BY

GROUNDWATER CONTOUR MAP
MAY 19, 2008

CLOSED LANDFILL PERMIT #32-01
DURHAM, NORTH CAROLINA

DRAWN BY:	CHECKED BY:
DESIGNED BY:	APPROVED BY:
PROJECT NUMBER: 1054-07-469	
SCALE: 1" = 200'	DATE: JUNE 2008
DRAWING NUMBER: D-1032	
DRAWING: 3	OF: 3

TABLES

Table 1
Summary of Historical Static Water Level Data
City of Durham Closed Municipal Solid Waste Landfill
S&ME Project No. 1054-07-469
Permit No. 32-01

Well #	MW-1	MW-2	MW-3	MW-3R[2]	MW-4	MW-4R	MW-5	MW-6	MW-6R[1]	MW-7	MW-7R[1]	MW-8	MW-9	MW-9R[1]	PZ-1	PZ-2	PZ-2R[1]	PZ-3	PZ-4	PZ-4R	PZ-6
TOC Elevation (ft AMSL)	346.8	286.54	285.5	NM	294.7	295.63	299.76	289.3	291.39	318.3	318.21	313.1	358.1	361.47	347	346.1	346.56	350.03	342.3	339.42	350.11
Date	**Static Water Elevation (ft AMSL)**																				
5/26/1998	313.9	280.2	283.5	NI	294.2	NI	290.2	285	NI	300.4	NI	304.4	350.5	NI	NM	313.9	NI	318.8	NM	NI	308.1
12/1/1998	316.3	280.06	282.97	NI	destroyed	NI	298.43	282.42	NI	298.68	NI	304.4	345.74	NI	NM	316.57	NI	321.29	NM	NI	304.79
6/7/1999	316.09	275.71	275.3	NI	destroyed	NI	285.79	NM	NI	295.77	NI	300.87	NM	NI	NM	316.09	NI	319.05	NM	NI	303.68
7/8/1999	NM	NM	NM	NI	destroyed	289.09	NM	280.03	NI	NM	NI	NM	NM	NI	NM	NM	NI	NM	NM	NI	NM
12/13/1999	316.58	279.09	280.1	NI	destroyed	289.49	288.28	281.28	NI	296.74	NI	302.19	NM	NI	342.4	316.55	NI	319.83	NM	NI	303.64
6/6/2000	317.23	277.15	279.28	NI	destroyed	289.37	287.1	280.82	NI	297	NI	301.98	347.43	NI	Dry	316.84	NI	319.45	NM	NI	305.02
12/11/2000	316.9	277.1	279.5	NI	destroyed	289.15	288.05	282.11	NI	296.65	NI	302.01	344.55	NI	Dry	316.33	NI	320.27	NM	NI	303.71
6/4/2001	abandoned	278.37	279.67	NI	destroyed	289.67	286.67	281.63	NI	297.31	NI	301.42	346.98	NI	Dry	316.02	NI	318.52	322.4	NI	304.9
12/4/2001	abandoned	275.19	278.85	NI	destroyed	289.15	288.25	280.3	NI	294.85	NI	299.32	341.46	NI	Dry	NM	NI	319.11	damaged	NI	304.71
6/10/2002	abandoned	275.59	277.77	NI	destroyed	288.52	288.38	279.5	NI	296.3	NI	302.55	343.48	NI	Dry	315.62	NI	317.57	damaged	NI	304.11
12/16/2002	abandoned	280.13	282.09	NI	destroyed	290.51	292.22	283.55	NI	300.01	NI	305.28	349.62	NI	343.16	316.39	NI	318.72	damaged	NI	305.12
6/9/2003	abandoned	278.9	280.11	NI	destroyed	290.04	288.21	281.05	NI	297.61	NI	301.45	347.7	NI	NM	damaged	NI	317.81	damaged	NI	305.75
12/8/2003	abandoned	278.49	279.69	NI	destroyed	289.82	288.06	281.21	NI	297.92	NI	310	abandoned	NI	342.91	damaged	NI	319.84	damaged	NI	305.53
6/28/2004	abandoned	276.34	279.29	NM	destroyed	290	287.15	NM	275.79	NM	297.73	300.87	abandoned	349.02	abandoned	damaged	318.7	319.37	damaged	313.74	308.83
12/20/2004	abandoned	275.48	279.7	NM	destroyed	289.78	288.18	NM	276.89	NM	299.55	301.72	abandoned	334.52	abandoned	damaged	318.98	321.02	damaged	319.78	307.16
6/6/2005	abandoned	280.35	279.12	NM	destroyed	289.87	287.31	NM	275.79	NM	297.82	300.74	abandoned	349.62	abandoned	damaged	320.93	321.07	damaged	320.42	306.9
12/5/2005	abandoned	274.26	279.46	NM	destroyed	289.94	287.72	NM	275.59	NM	299.17	300.09	abandoned	346.25	abandoned	damaged	319.65	320.75	damaged	317.42	302.6
6/5/2006	abandoned	277.45	279.24	NM	destroyed	291.1	287.45	NM	275.81	NM	298.91	300.51	abandoned	347.47	abandoned	damaged	319.74	318.85	damaged	317.89	304.85
12/4/2006	abandoned	279.4	279.9	NM	destroyed	290.02	288.8	NM	277.18	NM	300.86	301.8	abandoned	349.22	abandoned	damaged	319.56	319.3	damaged	317.42	304.1
5/30/2007	abandoned	279.38	281.6	NM	destroyed	291	289.89	NM	278.59	NM	300.48	303.6	abandoned	348.47	abandoned	damaged	320.18	318.56	damaged	319.08	300.51
11/19/2007	abandoned	273.92	281.27	NM	destroyed	292.72	287.6	NM	276.62	NM	298.07	302.37	abandoned	343.35	abandoned	damaged	319.2	318.91	damaged	316.28	304.41
5/19/2008	abandoned	282.1	NM	*3.43	destroyed	293.41	291.72	NM	280.04	NM	302.98	304.87	abandoned	349.36	abandoned	damaged	319.85	317.82	damaged	317.18	308.27
MEAN	*316.17*	*277.63*	*279.92*	-	*294.2*	*289.96*	*288.69*	*281.58*	*276.53*	*297.44*	*299.07*	*302.38*	*346.38*	*345.99*	*342.82*	*316.03*	*319.62*	*319.40*	*322.4*	*317.75*	*304.92*
MAXIMUM	*317.23*	*282.1*	*283.5*	-	*294.2*	*293.41*	*298.43*	*285*	*280.04*	*300.4*	*302.98*	*310*	*350.5*	*349.62*	*343.16*	*316.84*	*320.93*	*321.29*	*322.4*	*320.42*	*308.83*
MINIMUM	*313.9*	*273.92*	*275.3*	-	*294.2*	*288.52*	*285.79*	*279.5*	*275.59*	*294.85*	*297.73*	*299.32*	*341.46*	*334.52*	*342.4*	*313.9*	*318.7*	*317.57*	*322.4*	*313.74*	*300.51*

Notes:
AMSL = Above Mean Sea Level
NA= Not Applicable
NM=Not Measured
TOC=Top of Well Casing
*=Measurement taken from top of casing
NI=Not Installed
TOC elevations were surveyed by Barbara H. Mulkey Engineering in January 2001.
1. TOC elevations surveyed for new wells PZ-2R, PZ-4R, MW-6R, MW-7R and MW-9R in 2005 by Mulkey Engineering.
2. Monitor well 3R has not been surveyed or measured until this period.

Table 2
Summary of Estimated Horizontal Flow Velocities
City of Durham Closed Municipal Solid Waste Landfill
S&ME Project No. 1054-07-469
Permit No. 32-01

May 2008								
Gradient Calculation Segment	**Monitoring Wells**	**Flow Direction**	**Gradient Segment Length (feet)**	**Gradient Segment Elevations (feet)**	**Horizontal Gradient (i, feet)**	**Effective Porosity (ne)**	**Hydraulic Conductivity (K, cm/sec)**	**Velocity (Vgw, feet/year)**
i 1	*MW-9R to*	N	1073	349.36	0.043	0.2	5.87E-05	12.99026182
	MW-7R			302.98				
i 2	*MW-9R to*	NW	1900	349.36	0.035	0.2	5.44E-05	9.80727552
	MW-2			282.06				
i 3	*MW-9R to*	W	2489	349.36	0.028	0.2	4.65E-05	6.70644576
	MW-6R			280.04				

Avg. Hydraulic Gradient = 0.035 **Avg. Velocity = 9.83 feet/year**

Notes:
Horizontal velocities based on the modified Darcy equation Vgw = Ki/ne.
1. Porosity (n) estimated for residual soils in Carolina Slate Belt
2. Average K value used for background wells and compliance wells
3. Hydraulic Gradient (i) calculated by measuring linear feet between selected contour intervals
4. Ave. Linear Velocity (v) = (1.035E06)K*i/n for units shown
5. To convert cm/sec to ft/yr, multiply n by 1.035E06

Table 3
Monitor Well Construction Information
City of Durham Closed Municipal Solid Waste Landfill
S&ME Project No. 1054-07-469
Permit No. 32-01

Well Identification	Ground Surface Elevation (ft AMSL)	TOC Elevation (ft AMSL)	Well Depth* (ft bgs)	Well Diameter (inches)	Screened Interval** (ft bgs)
MW-2	284.70	286.54	19.62	2	9.62 - 19.62
MW-3	284.20	285.50	25.33	2	15.33 - 25.33
MW-3R	--	--	17.65	2	7.65 - 17.65
MW-4R	293.00	295.63	17.39	2	7.39 - 17.39
MW-5	297.70	299.76	21.77	2	11.77 - 21.77
MW-6R	288.64	291.39	26.72	2	16.72 - 26.72
MW-7R	315.70	318.21	44.10	2	24.10 - 44.10
MW-8	309.50	313.10	16.52	2	9.02 - 16.52
MW-9R	358.81	361.47	22.55	2	12.55 - 22.55
PZ-2R	348.83	346.56	34.59	2	24.59 - 34.59
PZ-3	346.80	350.03	42.40	2	27.40 - 42.40
PZ-4R	336.40	339.42	38.38	2	23.38 - 38.38
PZ-6	347.60	350.11	59.00	2	39.00 - 59.00

Notes:
ft AMSL = feet above mean sea level
TOC = top of well casing elevation
-- = no data available
bgs = below ground surface
TOC and Ground Surface Elevations were surveyed by Barbara H. Mulkey Engineering in January 2001.
TOC and Ground Surface Elevations surveyed for new wells P2-R, P-4R, MW-6R, MW-7R and MW-9R in 2005 by Mulkey Engineering.
** Screened interval is approximate, based on field measurements by S&ME in May 2008.
* Depth to bottom measurements taken on June 13, 2008.

Table 4
Groundwater Quality Summary
City of Durham Closed Municipal Solid Waste Landfill
May 2008 Sampling Event
S&ME Project No. 1054-07-469

		GROUNDWATER QUALITY SUMMARY												SURFACE WATER QUALITY SUMMARY					
APPENDIX I VOCs EPA METHOD 8260	UNITS	2L Standard	BACKGROUND MONITOR WELL	COMPLIANCE MONITOR WELLS							QUALITY CONTROL			2B Standard	SAMPLING LOCATION				SWSL
			MW-9R	MW-2	MW-3R	MW-4R	MW-5	MW-6R	MW-7R	MW-8	Duplicate	EQUIPMENT BLANK	TRIP BLANK		UPSTREAM (S-4)	DOWNSTREAM (S-1)	DOWNSTREAM (S-2)	DOWNSTREAM (S-3)	
ACETONE	µg/L	700	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	13	13	2000	<8.9	<8.9	<8.9	<8.9	100
BENZENE	µg/L	1	<0.29	<0.29	<0.29	<0.29	<0.29	**4.3**	<0.29	<0.29	**4.3**	<0.29	<0.29	NS	<0.29	<0.29	<0.29	<0.29	1
CHLOROBENZENE	µg/L	50	<0.26	<0.26	<0.26	<0.26	<0.26	0.73	<0.26	<0.26	0.72	<0.26	<0.26	NS	<0.26	<0.26	<0.26	<0.26	3
CHLOROFORM	µg/L	70	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	NS	0.66	<0.33	<0.33	0.58	5
1,2-DICHLOROBENZENE	µg/L	24	<0.29	<0.29	<0.29	<0.29	<0.29	0.64	<0.29	<0.29	0.62	<0.29	<0.29	NS	<0.29	<0.29	<0.29	<0.29	5
1,4-DICHLOROBENZENE	µg/L	1.4	<0.30	<0.30	<0.30	<0.30	<0.30	**4.6**	<0.30	<0.30	**4.5**	<0.30	<0.30	NS	<0.30	<0.30	<0.30	<0.30	1
1,1-DICHLOROETHANE	µg/L	70	<0.31	<0.31	<0.31	<0.31	<0.31	4.2	<0.31	<0.31	<.50	<0.31	<0.31	NS	<0.31	<0.31	<0.31	<0.31	5
C-1,2 DICHLOROETHENE	µg/L	70	<0.38	<0.38	<0.38	<0.38	<0.38	**140**	<0.38	<0.38	**140**	<0.38	<0.38	NS	<0.38	<0.38	<0.38	<0.38	5
TRANS-1,2-DICHLOROETHENE	µg/L	100	<0.30	<0.30	<0.30	<0.30	<0.30	5.7	<0.30	<0.30	5.9	<0.30	<0.30	NS	<0.30	<0.30	<0.30	<0.30	5
1,2-DICHLOROPROPANE	µg/L	0.51	<0.52	<0.52	<0.52	<0.52	<0.52	**3.3**	<0.52	<0.52	**3.5**	<0.52	<0.52	NS	<0.52	<0.52	<0.52	<0.52	1
TRICHLOROETHENE	µg/L	2.8	<0.37	<0.37	<0.37	<0.37	<0.37	1.6	<0.37	<0.37	1.6	<0.37	<0.37	NS	<0.37	<0.37	<0.37	<0.37	1
TOLUENE	µg/L	1,000	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.45	<0.27	<0.27	0.66	<0.27	11	<0.27	<0.27	<0.27	<0.27	1
VINYL CHLORIDE	µg/L	0.015	<0.27	<0.27	<0.27	<0.27	<0.27	**21**	<0.27	<0.27	**22**	<0.27	<0.27	0.025	<0.27	<0.27	<0.27	<0.27	1
APPENDIX II VOCs EPA METHOD 8260	UNITS	2L Standard	BACKGROUND MONITOR WELL	COMPLIANCE MONITOR WELLS							QUALITY CONTROL			2B Standard	SAMPLING LOCATION				SWSL
			MW-9R	MW-2	MW-3R	MW-4R	MW-5	MW-6R	MW-7R	MW-8	Duplicate	EQUIPMENT BLANK	TRIP BLANK		UPSTREAM (S-4)	DOWNSTREAM (S-1)	DOWNSTREAM (S-2)	DOWNSTREAM (S-3)	
1,4-NAPHTHOQUINONE	µg/L	NS	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	18	<3.5	<3.5	<3.5	<3.5	NS	<3.5	<3.5	<3.5	<3.5	10
N-NITROSODI-N-BUTYLAMINE	µg/L	NS	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	3.8	3.6	<3.5	3.9	<3.5	NS	<3.5	<3.5	<3.5	<3.5	10
APPENDIX I INORGANIC COMPOUNDS EPA METHOD 6010/6020	UNITS	2L Standard	BACKGROUND MONITOR WELL	COMPLIANCE MONITOR WELLS							QUALITY CONTROL			2B Standard	SAMPLING LOCATION				SWSL
			MW-9R	MW-2	MW-3R	MW-4R	MW-5	MW-6R	MW-7R	MW-8	Duplicate	EQUIPMENT BLANK	TRIP BLANK		UPSTREAM (S-4)	DOWNSTREAM (S-1)	DOWNSTREAM (S-2)	DOWNSTREAM (S-3)	
ANTIMONY	µg/L	1.4*	<0.22	<0.22	0.26	<0.22	<0.22	<2.2	<0.22	<0.22	<2.2	<0.22	NA	NS	0.4	<0.22	0.24	0.36	6
ARSENIC	µg/L	50	<0.15	<0.15	5.0	<0.15	1.9	0.36	0.72	<0.15	0.32	<0.15	NA	50	<0.15	<0.15	1.2	<0.15	10
BARIUM	µg/L	2,000	55	66	530	580	1300	430	600	33	420	<1.0	NA	NS	17	64	66	18	100
BERYLLIUM	µg/L	4*	0.5	<0.24	0.25	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	NA	6.5	<0.24	<0.24	0.34	<0.24	1
CHROMIUM	µg/L	50	<2.3	<2.3	2.4	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	NA	50	<2.3	<2.3	<2.3	<2.3	10
COBALT	µg/L	70*	6.1	<1.1	7.3	<1.1	<1.1	17	<1.1	2.6	17	<1.1	NA	NS	<1.1	<1.1	<1.1	<1.1	10
COPPER	µg/L	1,000	2.4	1.8	7.3	4.6	1.7	2	1.3	1.8	1.6	5.7	NA	7 (AL)	4	6	**10**	3.8	10
LEAD	µg/L	15	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	NA	25 (N)	<2.4	<2.4	4.1	<2.4	10
NICKEL	µg/L	100	<9.8	<9.8	<9.8	<9.8	<9.8	17	<9.8	<9.8	16	<9.8	NA	88 (N)	<9.8	<9.8	<9.8	<9.8	50
SELENIUM	µg/L	50	<0.43	<0.43	3.3	0.47	<0.43	0.96	<0.43	<0.43	1.4	<0.43	NA	5	<0.43	<0.43	<0.43	<0.43	10
VANADIUM	µg/L	3.5*	**4.0**	<2.9	**11**	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	NA	NS	<2.9	<2.9	3.1	<2.9	25
ZINC	µg/L	1,050	12	8.7	45	30	54	23	34	4.6	27	<3.0	NA	50 (AL)	48	10	38	47	10

NOTES:
VOCs = Volatile Organic Compounds
2L STANDARD = North Carolina groundwater standards as promulgated by 15A North Carolina Administrative Code, Subchapter 2L.
SWSL = Solid Waste Section Limit
* Indicates there is currently no 2L Standard. The target analyte was compared to the Solid Waste Groundwater Protection Standard (GWPST).
µg/L = Micrograms Per Liter
Duplicate sample collected from monitor well MW-6R.
Values which are **BOLDED** and shaded indicate levels above their respective NCDENR 2L or GWPST Standards
Compounds not shown were not detected during this sampling event.
Samples were collected on May 19, 2008 and analyzed by ESC. Detection limits are shown on laboratory reports.
NA = Not Analyzed
NS = No Standard Listed
(AL) = Action Level Standard
(N) = Narrative Standard

Table 5
Summary of Historically Detected Constituents in Groundwater
City of Durham Closed Municipal Soild Waste Landfill
S&ME Project No. 1054-07-469
Permit No. 32-01

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	Solid Waste Section Limits	Background Well MW-9R	MW-2	MW-3	MW-3R	MW-4	MW-4R	MW-5	MW-6	MW-6R	MW-7	MW-7R	MW-8	PZ-6	Duplicate (MW-6R)	Equipment Blank	Trip Blank
Antimony - (GPS = 1.4 ug/L)	ug/L	9/19/1994	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
SWID # = 13	ug/L	2/2/1994	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	2/7/1995	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	3/13/1995	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	11/1/1995	--	--	--	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	6/10/1996	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	11/12/1996	--	--	5	NM	6	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	3/18/1997	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	10/2/1997	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	5/26/1998	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/1/1998	--	--	5	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/7/1999	--	--	5	NM	ND	ND	NM	--	--	ND	--	--	ND	--	ND	ND	--	--	--
	ug/L	7/8/1999	--	--	5	NM	--	--	NM	--	ND	--	ND	--	--	--	--	--	--	--	--
	ug/L	12/15/1999	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/6/2000	--	--	5	NM	ND	ND	NM	--	ND	ND	--	--	ND	--	ND	ND	--	--	--
	ug/L	12/27/2000	--	--	5	NM	ND	ND	NM	--	ND	ND	--	--	ND	--	ND	ND	--	--	--
	ug/L	6/4/2001	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/3/2001	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/10/2002	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/16/2002	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/9/2003	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/8/2003	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/29/2004	--	--	5	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	12/20/2004	--	--	5	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	6/5/2005	--	--	5	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	12/5/2005	--	--	5	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	6/5/2006	--	--	5	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	12/5/2006	--	--	5	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	5/30/2007	0.58	2	6	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	11/19/2007	0.22	1	6	NM	ND	ND	NM	--	ND	ND	--	0.36	--	ND	ND	ND	--	ND	--
	ug/L	5/19/2008	0.22	1	6	ND	ND	--	0.26	--	ND	ND	--	ND	--	ND	ND	--	ND	ND	NM
Arsenic - (NC 2L = 50 ug/L)	ug/L	9/19/1994	--	--	5	NM	ND	ND	NM	ND	--	ND	6.8	--	ND	--	ND	11	--	--	--
SWID # = 14	ug/L	12/2/1994	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	2/7/1995	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	9.1	--	--	--
	ug/L	3/13/1995	--	--	5	NM	ND	ND	NM	ND	--	8.2	ND	--	ND	--	ND	ND	--	--	--
	ug/l	11/1/1995	--	--	--	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/10/1996	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	11/12/1996	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	3/18/1997	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	5	--	--	--
	ug/L	10/2/1997	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	5/26/1998	--	--	5	NM	ND	ND	NM	ND	--	ND	7	--	ND	--	ND	ND	--	--	--
	ug/L	12/1/1998	--	--	5	NM	ND	6	NM	--	--	ND	ND	--	ND	--	ND	5	--	--	--
	ug/L	6/7/1999	--	--	5	NM	ND	6	NM	--	--	ND	--	--	ND	--	--	6	--	--	--
	ug/L	7/8/1999	--	--	5	NM	--	--	NM	--	5	--	7	--	--	--	ND	--	--	--	--
	ug/L	12/15/1999	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/6/2000	--	--	5	NM	ND	6	NM	--	ND	7	--	--	ND	--	ND	6	--	--	--
	ug/L	12/27/2000	--	--	5	NM	ND	18	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/4/2001	--	--	5	NM	ND	6	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/3/2001	--	--	5	NM	ND	ND	NM	--	ND	6	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/10/2002	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/16/2002	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/9/2003	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/8/2003	--	--	5	NM	ND	6	NM	--	ND	6	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/29/2004	--	--	5	NM	ND	5	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	12/20/2004	--	--	5	NM	ND	5	NM	--	ND	7	--	ND	--	ND	ND	ND	--	--	--
	ug/L	6/5/2005	--	--	5	NM	ND	ND	NM	--	ND	6	--	ND	--	6	ND	ND	--	--	--
	ug/L	12/5/2005	--	--	5	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	6/5/2006	--	--	5	NM	ND	5	NM	--	ND	7	--	ND	--	ND	ND	ND	--	--	--
	ug/L	12/5/2006	--	--	5	NM	ND	5	NM	--	ND	6	--	ND	--	ND	ND	ND	--	--	--
	ug/L	5/30/2007	2	10	10	NM	ND	ND	NM	--	ND	3.4 B	--	ND	--	2.0 B	3.1 B	ND	--	ND	--
	ug/L	11/19/2007	0.15	1	10	NM	0.46	6.3	NM	--	0.69	4.4	--	8.4	--	4.8	1.2	2.3	--	0.89	--
	ug/L	5/19/2008	0.15	1	10	ND	ND	--	2.7	--	ND	1.9	--	0.36	--	0.72	ND	--	0.32	ND	NM

Notes:

ug/L = micrograms per liter
mg/L= milligrams per liter
S.U. = Standard Units
NTU = Nephelometric Turbidity Units
mV= millivolts
ND = not detected at the stated reporting limit
ORP= Oxidation Reduction Potential
µS/cm= micro Siemens per centimeter
-- = no data available
Blanks = field, trip and method blanks
NM= not measured/analyzed
NS=not sampled

Shaded = Concentrations above the NC 2L or Solid Waste Section Groundwater Protection Standards have been shaded
* Sample data from 9/94 through 12/98 compiled and reported by Malcolm Pirnie, Inc.
* Sample data from 6/99 through 12/06 collected, compiled and reported by Weston Solutions, Inc.
* Sample data from 5/07 collected, compiled and reported by Golder Associates.
* Sample data from11/07 collected, compiled and reported by S&ME.
* Laboratory data prior to November 2007 was not validated by S&ME. Solid Waste Section Limits = NCPQL from 9/14/94 through 12/5/06 and NCSWSL for 5/30/07 and later

Table 5
Summary of Historically Detected Constituents in Groundwater
City of Durham Closed Municipal Soild Waste Landfill
S&ME Project No. 1054-07-469
Permit No. 32-01

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	Solid Waste Section Limits	Background Well MW-9R	MW-2	MW-3	MW-3R	MW-4	MW-4R	MW-5	MW-6	MW-6R	MW-7	MW-7R	MW-8	PZ-6	Duplicate (MW-6R)	Equipment Blank	Trip Blank
Barium - (NC 2L= 2000 ug/L)	ug/L	9/19/1994	--	--	--	NM	199	810	NM	590	--	9400	531	--	113	--	2115	1834	--	--	--
SWID # = 15	ug/L	12/2/1994	--	--	--	NM	32	492	NM	580	--	2300	84	--	1775	--	119	760	--	--	--
	ug/L	2/7/1995	--	--	--	NM	48	1047	NM	737	--	2436	118	--	1484	--	111	2648	--	--	--
	ug/L	3/13/1995	--	--	--	NM	37	706	NM	534	--	1630	144	--	716	--	118	524	--	--	--
	ug/L	11/1/1995	--	--	--	NM	25	1500	NM	1030	--	3360	90	--	770	--	120	970	--	--	--
	ug/L	6/10/1996	--	--	--	NM	50	1246	NM	683	--	992	140	--	459	--	123	891	--	--	--
	ug/L	11/12/1996	--	--	--	NM	47	879	NM	547	--	976	104	--	512	--	84	1555	--	--	--
	ug/L	3/18/1997	--	--	--	NM	70	1287	NM	774	--	1154	87	--	509	--	138	850	--	--	--
	ug/L	10/2/1997	--	--	--	NM	48	3390	NM	623	--	1250	111	--	558	--	312	840	--	--	--
	ug/L	5/26/1998	--	--	--	NM	48	1177	NM	600	--	1637	249	--	482	--	103	779	--	--	--
	ug/L	12/1/1998	--	--	--	NM	45	1024	NM	--	--	867	126	--	655	--	118	2390	--	--	--
	ug/L	6/7/1999	--	--	--	NM	106	1498	NM	--	--	996	--	--	2780	--	373	1850	--	--	--
	ug/L	7/8/1999	--	--	--	NM	--	--	NM	--	1217	--	507	--	--	--	--	--	--	--	--
	ug/L	12/15/1999	--	--	--	NM	84	1510	NM	--	315	942	122	--	366	--	116	944	--	--	--
	ug/L	6/6/2000	--	--	--	NM	46	1281	NM	--	377	3979	--	--	1018	--	114	2488	--	--	--
	ug/L	12/27/2000	--	--	--	NM	144	1504	NM	--	1120	5757	768	--	518	--	104	1826	--	--	--
	ug/L	6/4/2001	--	--	--	NM	128	1433	NM	--	964	3649	284	--	862	--	475	2804	--	--	--
	ug/L	12/3/2001	--	--	--	NM	153	1219	NM	--	1053	1441	723	--	750	--	778	965	--	--	--
	ug/L	6/10/2002	--	--	--	NM	53	1117	NM	--	943	1167	295	--	554	--	843	849	--	--	--
	ug/L	12/16/2002	--	--	--	NM	59	1121	NM	--	544	909	128	--	429	--	209	620	--	--	--
	ug/L	6/9/2003	--	--	--	NM	67	1175	NM	--	437	941	103	--	450	--	120	432	--	--	--
	ug/L	12/8/2003	--	--	--	NM	85	1115	NM	--	544	3692	221	--	648	--	141	2881	--	--	--
	ug/L	6/29/2004	--	--	--	NM	97	1024	NM	--	551	1899	--	3039	--	763	139	5664	--	--	--
	ug/L	12/20/2004	--	--	--	NM	90	1236	NM	--	543	4192	--	1444	--	639	111	578	--	--	--
	ug/L	6/5/2005	--	--	--	NM	64	1065	NM	--	607	1845	--	589	--	817	93	952	--	--	--
	ug/L	12/5/2005	--	--	--	NM	126	1331	NM	--	585	1758	--	512	--	703	92	435	--	--	--
	ug/L	6/5/2006	--	--	--	NM	97	1339	NM	--	796	3778	--	939	--	880	90	575	--	--	--
	ug/L	12/5/2006	--	--	--	NM	63	2018	NM	--	890	3134	--	819	--	924	71	635	--	--	--
	ug/L	5/30/2007	0.2	10	100	NM	67.2 J	1490	NM	--	472	1240	--	400	--	622	69.0 J	619	--	ND	--
	ug/L	11/19/2007	1	5	100	NM	120	1400	NM	--	510	1400	--	970	--	820	300	1300	--	ND	--
	ug/L	5/19/2008	1	5	100	55	66	--	530	--	580	1300	--	430	--	600	33	--	420	ND	NM
Beryllium - (GPS = 4 ug/L)	ug/L	9/19/1994	--	--	1	NM	1.5	ND	NM	ND	--	9.8	6.9	--	ND	--	7.3	8.1	--	--	--
SWID # = 23	ug/L	12/2/1994	--	--	1	NM	ND	ND	NM	ND	--	5	ND	--	3.9	--	ND	3.1	--	--	--
	ug/L	2/7/1995	--	--	1	NM	ND	ND	NM	ND	--	4.7	ND	--	1.9	--	ND	8.6	--	--	--
	ug/l	3/13/1995	--	--	1	NM	ND	ND	NM	ND	--	5.2	ND	--	ND	--	ND	1.5	--	--	--
	ug/L	11/1/1995	--	--	1	NM	ND	ND	NM	ND	--	8	ND	--	ND	--	ND	18	--	--	--
	ug/L	6/10/1996	--	--	1	NM	1.5	ND	NM	ND	--	ND	ND	--	ND	--	ND	3	--	--	--
	ug/L	11/12/1996	--	--	1	NM	ND	3	NM	ND	--	ND	ND	--	ND	--	ND	5	--	--	--
	ug/L	3/18/1997	--	--	1	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	10/2/1997	--	--	1	NM	ND	1.3	NM	ND	--	ND	ND	--	ND	--	ND	1.5	--	--	--
	ug/L	5/26/1998	--	--	1	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	1	--	--	--
	ug/L	12/1/1998	--	--	1	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	2	--	--	--
	ug/L	6/7/1999	--	--	1	NM	ND	3	NM	--	--	ND	--	--	4	--	ND	5	--	--	--
	ug/L	7/8/1999	--	--	1	NM	--	--	NM	--	2	--	2	--	--	--	--	--	--	--	--
	ug/L	12/15/1999	--	--	1	NM	ND	2	NM	--	ND	ND	ND	--	ND	--	ND	2	--	--	--
	ug/L	6/6/2000	--	--	1	NM	ND	ND	NM	--	ND	5	2	--	2	--	ND	7	--	--	--
	ug/L	12/27/2000	--	--	1	NM	ND	ND	NM	--	ND	8	1	--	ND	--	ND	2	--	--	--
	ug/L	6/4/2001	--	--	1	NM	ND	ND	NM	--	ND	2	3	--	ND	--	ND	4	--	--	--
	ug/L	12/3/2001	--	--	1	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/10/2002	--	--	1	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/16/2002	--	--	1	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/9/2003	--	--	1	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/8/2003	--	--	1	NM	ND	ND	NM	--	ND	2	--	--	ND	--	ND	2	--	--	--
	ug/L	6/29/2004	--	--	1	NM	ND	ND	NM	--	ND	ND	--	2	--	ND	ND	2	--	--	--
	ug/L	12/20/2004	--	--	1	NM	ND	ND	NM	--	ND	2	--	1	--	ND	ND	ND	--	--	--
	ug/L	6/5/2005	--	--	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	12/5/2005	--	--	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	6/5/2006	--	--	1	NM	ND	ND	NM	--	ND	2	--	ND	--	ND	ND	ND	--	--	--
	ug/L	12/5/2006	--	--	1	NM	ND	ND	NM	--	ND	1	--	ND	--	ND	ND	ND	--	--	--
	ug/L	5/30/2007	0.7	1	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	11/19/2007	0.24	1	1	NM	ND	ND	NM	--	ND	ND	--	1.4	--	0.79	0.93	3.1	--	ND	--
	ug/L	5/19/2008	0.24	1	1	0.38	ND	--	0.25	--	ND	ND	--	ND	--	ND	ND	--	ND	ND	NM

Notes:

ug/L = micrograms per liter
mg/L= milligrams per liter
S.U. = Standard Units
NTU = Nephelometric Turbidity Units
mV= millivolts
ND = Not detected at the stated reporting limit
ORP= Oxidation Reduction Potential
µS/cm= micro Siemens per centimeter
-- = no data available
Blanks = field, trip and method blanks
NM= not measured/analyzed
NS= not sampled

Shaded = Concentrations above the NC 2L or Solid Waste Section Groundwater Protection Standards have been shaded
* Sample data from 9/94 through 12/98 compiled and reported by Malcolm Pirnie, Inc.
* Sample data from 6/99 through 12/06 collected, compiled and reported by Weston Solutions, Inc.
* Sample data from 5/07 collected, compiled and reported by Golder Associates.
* Sample data from11/07 collected, compiled and reported by S&ME.
* Laboratory data prior to November 2007 was not validated by S&ME. Solid Waste Section Limits = NCPQL from 9/14/94 through 12/5/06 and NCSWSL for 5/30/07 and later

Table 5
Summary of Historically Detected Constituents in Groundwater
City of Durham Closed Municipal Soild Waste Landfill
S&ME Project No. 1054-07-469
Permit No. 32-01

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	Solid Waste Section Limits	Background Well MW-9R	MW-2	MW-3	MW-3R	MW-4	MW-4R	MW-5	MW-6	MW-6R	MW-7	MW-7R	MW-8	PZ-6	Duplicate (MW-6R)	Equipment Blank	Trip Blank
Cadmium - (NC 2L = 1.75 ug/L)	ug/L	9/19/1994	--	--	1	NM	ND	ND	NM	ND	--	1.6	4	--	ND	--	ND	ND	--	--	--
SWID # = 34	ug/L	12/2/1994	--	--	1	NM	1	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	2/7/1995	--	--	1	NM	ND	ND	NM	ND	--	1.6	ND	--	32	--	ND	2.2	--	--	--
	ug/L	3/13/1995	--	--	1	NM	ND	ND	NM	ND	--	ND	1.2	--	ND	--	ND	ND	--	--	--
	ug/L	11/1/1995	--	--	1	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/10/1996	--	--	1	NM	1.8	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	11/12/1996	--	--	1	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	3/18/1997	--	--	1	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	10/2/1997	--	--	1	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	5/26/1998	--	--	1	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/1/1998	--	--	1	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/7/1999	--	--	1	NM	ND	ND	NM	--	--	3	--	--	ND	--	ND	ND	--	--	--
	ug/L	7/8/1999	--	--	1	NM	--	--	NM	--	ND	--	1	--	--	--	--	--	--	--	--
	ug/L	12/15/1999	--	--	1	NM	ND	ND	NM	--	ND	ND	1	--	ND	--	ND	ND	--	--	--
	ug/L	6/6/2000	--	--	1	NM	ND	ND	NM	--	ND	1	--	--	ND	--	ND	ND	--	--	--
	ug/L	12/27/2000	--	--	1	NM	ND	ND	NM	--	ND	1	2	--	ND	--	ND	ND	--	--	--
	ug/L	6/4/2001	--	--	1	NM	ND	ND	NM	--	ND	ND	1	--	ND	--	ND	ND	--	--	--
	ug/L	12/3/2001	--	--	1	NM	ND	ND	NM	--	ND	ND	2	--	ND	--	ND	ND	--	--	--
	ug/L	6/10/2002	--	--	1	NM	7	ND	NM	--	ND	2	3	--	ND	--	ND	ND	--	--	--
	ug/L	12/16/2002	--	--	1	NM	1	ND	NM	--	ND	ND	2	--	ND	--	ND	ND	--	--	--
	ug/L	6/9/2003	--	--	1	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/8/2003	--	--	1	NM	ND	ND	NM	--	ND	ND	7	--	ND	--	ND	ND	--	--	--
	ug/L	6/29/2004	--	--	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	1	--	--	--
	ug/L	12/20/2004	--	--	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	1	--	--	--
	ug/L	6/5/2005	--	--	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	12/5/2005	--	--	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	6/5/2006	--	--	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	12/5/2006	--	--	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	5/30/2007	0.5	1	1	NM	ND	ND	NM	--	ND	ND	--	1.1	--	ND	ND	ND	--	ND	--
	ug/L	11/19/2007	0.24	0.5	1	NM	ND	ND	NM	--	ND	ND	--	2.1	--	0.34	ND	0.93	--	ND	--
	ug/L	5/19/2008	0.24	0.5	1	ND	ND	--	ND	--	ND	ND	--	ND	--	ND	ND	--	ND	ND	NM
Chromium - (NC 2L = 50 ug/L)	ug/L	9/19/1994	--	--	5	NM	25	5.4	NM	ND	--	699	148	--	12	--	139	207	--	--	--
SWID # = 51	ug/L	12/2/1994	--	--	5	NM	ND	ND	NM	ND	--	142	13	--	95	--	9.7	71	--	--	--
	ug/L	2/7/1995	--	--	5	NM	ND	ND	NM	ND	--	128	9.6	--	45	--	8.3	271	--	--	--
	ug/L	3/13/1995	--	--	5	NM	ND	ND	NM	ND	--	36	5.7	--	14	--	13	5.8	--	--	--
	ug/L	11/1/1995	--	--	5	NM	ND	21	NM	8	--	129	5	--	7	--	6	40	--	--	--
	ug/L	6/10/1996	--	--	5	NM	ND	49	NM	ND	--	12	122	--	ND	--	ND	65	--	--	--
	ug/L	11/12/1996	--	--	5	NM	ND	96	NM	7	--	19	5	--	10	--	9	133	--	--	--
	ug/L	3/18/1997	--	--	5	NM	ND	22	NM	ND	--	ND	165	--	ND	--	ND	ND	--	--	--
	ug/L	10/2/1997	--	--	5	NM	ND	15	NM	ND	--	ND	ND	--	7	--	ND	65	--	--	--
	ug/L	5/26/1998	--	--	5	NM	ND	6	NM	ND	--	6	8	--	5	--	ND	37	--	--	--
	ug/L	12/1/1998	--	--	5	NM	ND	47	NM	--	--	ND	5	--	9	--	11	176	--	--	--
	ug/L	6/7/1999	--	--	5	NM	ND	69	NM	--	--	7	--	--	35	--	ND	46	--	--	--
	ug/L	7/8/1999	--	--	5	NM	--	--	NM	--	108	--	89	--	--	--	--	--	--	--	--
	ug/L	12/15/1999	--	--	5	NM	5	68	NM	--	5	5	5	--	5	--	5	121	--	--	--
	ug/L	6/6/2000	--	--	5	NM	5	40	NM	--	5	7	--	--	33	--	5	297	--	--	--
	ug/L	12/27/2000	--	--	5	NM	7	6	NM	--	ND	150	40	--	ND	--	ND	102	--	--	--
	ug/L	6/4/2001	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	25	--	13	41	--	--	--
	ug/L	12/3/2001	--	--	5	NM	ND	23	NM	--	ND	24	12	--	16	--	ND	54	--	--	--
	ug/L	6/10/2002	--	--	5	NM	ND	16	NM	--	ND	7	26	--	ND	--	6	21	--	--	--
	ug/L	12/16/2002	--	--	5	NM	ND	19	NM	--	30	ND	ND	--	5	--	17	32	--	--	--
	ug/L	6/9/2003	--	--	5	NM	5	28	NM	--	9	ND	9	--	7	--	10	88	--	--	--
	ug/L	12/8/2003	--	--	5	NM	ND	62	NM	--	17	40	11	--	19	--	10	89	--	--	--
	ug/L	6/29/2004	--	--	5	NM	13	71	NM	--	ND	16	--	65	--	13	12	104	--	--	--
	ug/L	12/20/2004	--	--	5	NM	6	9	NM	--	ND	67	--	41	--	7	ND	11	--	--	--
	ug/L	6/5/2005	--	--	5	NM	ND	32	NM	--	ND	14	--	5	--	18	ND	32	--	--	--
	ug/L	12/5/2005	--	--	5	NM	5	53	NM	--	5	22	--	ND	--	7	ND	ND	--	--	--
	ug/L	6/5/2006	--	--	5	NM	6	39	NM	--	ND	41	--	8	--	9	ND	69	--	--	--
	ug/L	12/5/2006	--	--	5	NM	ND	ND	NM	--	ND	5	--	ND	--	ND	ND	9	--	--	--
	ug/L	5/30/2007	2	10	10	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	7.0 J	--	ND	--
	ug/L	11/19/2007	2.3	10	10	NM	4.7	7.1	NM	--	2.3	8.8	--	24	--	18	20	90	--	ND	--
	ug/L	5/19/2008	2.3	10	10	ND	ND	--	2.4	--	ND	ND	--	ND	--	ND	ND	--	ND	ND	NM

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Table 5
Summary of Historically Detected Constituents in Groundwater
City of Durham Closed Municipal Soild Waste Landfill
S&ME Project No. 1054-07-469
Permit No. 32-01

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	Solid Waste Section Limits	Background Well MW-9R	MW-2	MW-3	MW-3R	MW-4	MW-4R	MW-5	MW-6	MW-6R	MW-7	MW-7R	MW-8	PZ-6	Duplicate (MW-6R)	Equipment Blank	Trip Blank
Cobalt - (GPS = 70 ug/L)	ug/L	9/19/1994	--	--	--	NM	ND	ND	NM	ND	--	89	26	--	ND	--	32	--	--	--	--
SWID # = 53	ug/L	12/2/1994	--	--	--	NM	ND	ND	NM	ND	--	39	26	--	11	--	ND	ND	--	--	--
	ug/L	2/7/1995	--	--	--	NM	ND	ND	NM	ND	--	23	18	--	14	--	ND	30	--	--	--
	ug/L	3/13/1995	--	--	--	NM	ND	ND	NM	ND	--	18	24	--	12	--	ND	--	--	--	--
	ug/L	11/1/1995	--	--	10	NM	ND	11	NM	ND	--	47	13	--	ND	--	ND	12	--	--	--
	ug/L	6/10/1996	--	--	10	NM	ND	15	NM	ND	--	ND	ND	--	ND	--	12	ND	--	--	--
	ug/L	11/12/1996	--	--	10	NM	ND	25	NM	ND	--	ND	ND	--	ND	--	13	34	--	--	--
	ug/L	3/18/1997	--	--	10	NM	ND	15	NM	ND	--	ND	12	--	ND	--	16	16	--	--	--
	ug/L	10/2/1997	--	--	10	NM	ND	40	NM	ND	--	ND	ND	--	ND	--	21.5	20.6	--	--	--
	ug/L	5/26/1998	--	--	10	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	15	45	--	--	--
	ug/L	12/1/1998	--	--	25	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/7/1999	--	--	10	NM	ND	25	NM	--	--	ND	--	--	55	--	14	34	--	--	--
	ug/L	7/8/1999	--	--	10	NM	--	--	NM	--	29	--	14	--	--	--	--	--	--	--	--
	ug/L	12/15/1999	--	--	10	NM	ND	24	NM	--	ND	ND	ND	--	ND	--	14	16	--	--	--
	ug/L	6/6/2000	--	--	10	NM	ND	19	NM	--	ND	76	--	--	ND	--	14	32	--	--	--
	ug/L	12/27/2000	--	--	10	NM	ND	19	NM	--	ND	150	210	--	ND	--	19	ND	--	--	--
	ug/L	6/4/2001	--	--	10	NM	ND	30	NM	--	ND	60	85	--	ND	--	13	50	--	--	--
	ug/L	12/3/2001	--	--	10	NM	ND	31	NM	--	ND	11	200	--	26	--	17	33	--	--	--
	ug/L	6/10/2002	--	--	10	NM	ND	24	NM	--	ND	14	--	--	12	--	20	16	--	--	--
	ug/L	12/16/2002	--	--	10	NM	ND	21	NM	--	11	ND	27	--	ND	--	25	14	--	--	--
	ug/L	6/9/2003	--	--	10	NM	ND	24	NM	--	ND	ND	12	--	ND	--	16	ND	--	--	--
	ug/L	12/8/2003	--	--	10	NM	ND	21	NM	--	ND	65	13	--	ND	--	16	87	--	--	--
	ug/L	6/29/2004	--	--	10	NM	ND	24	NM	--	ND	ND	--	48	--	ND	26	91	--	--	--
	ug/L	12/20/2004	--	--	5	NM	ND	19	NM	--	ND	47	--	25	--	ND	20	7.4	--	--	--
	ug/L	6/5/2005	--	--	--	NM	ND	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	12/5/2005	--	--	--	NM	ND	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	6/5/2006	--	--	--	NM	ND	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	12/5/2006	--	--	--	NM	ND	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	5/30/2007	2	10	10	NM	ND	4.3 J	NM	--	ND	ND	--	10.2	--	ND	11.2	3.2 J	--	ND	--
	ug/L	11/19/2007	1.1	10	10	NM	2.3	10	NM	--	2	2.5	--	21	--	7	21	16	--	ND	--
	ug/L	5/19/2008	1.1	10	10	5.1	ND	--	7.3	--	ND	ND	--	17	--	ND	2.6	--	17	ND	NM
Copper - (NC 2L = 1000 ug/L)	ug/L	9/19/1994	--	--	5	NM	7	ND	NM	ND	--	598	119	--	ND	--	73	109	--	--	--
SWID # = 54	ug/L	12/2/1994	--	--	5	NM	ND	ND	NM	ND	--	113	14	--	43	--	7.3	44	--	--	--
	ug/L	2/7/1995	--	--	5	NM	ND	ND	NM	ND	--	75	9.9	--	50	--	5.2	150	--	--	--
	ug/L	3/13/1995	--	--	5	NM	ND	ND	NM	ND	--	58	13	--	11	--	6.8	17	--	--	--
	ug/L	11/1/1995	--	--	5	NM	ND	7	NM	11	--	145	ND	--	7	--	ND	20	--	--	--
	ug/L	6/10/1996	--	--	5	NM	ND	50	NM	6	--	8.7	ND	--	ND	--	ND	62	--	--	--
	ug/L	11/12/1996	--	--	5	NM	ND	50	NM	ND	--	10	ND	--	ND	--	ND	73	--	--	--
	ug/L	3/18/1997	--	--	5	NM	ND	50	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	10/2/1997	--	--	5	NM	ND	16	NM	ND	--	ND	ND	--	ND	--	ND	27	--	--	--
	ug/L	5/26/1998	--	--	5	NM	ND	6	NM	ND	--	ND	ND	--	ND	--	ND	30	--	--	--
	ug/L	12/1/1998	--	--	5	NM	ND	8	NM	--	--	ND	ND	--	ND	--	ND	60	--	--	--
	ug/L	6/7/1999	--	--	5	NM	ND	23	NM	--	--	10	--	--	43	--	ND	69	--	--	--
	ug/L	7/8/1999	--	--	5	NM	--	--	NM	--	89	--	30	--	--	--	--	--	--	--	--
	ug/L	12/15/1999	--	--	5	NM	5	30	NM	--	5	6	5	--	5	--	5	30	--	--	--
	ug/L	6/6/2000	--	--	5	NM	5	12	NM	--	5	--	--	--	17	--	5	101	--	--	--
	ug/L	12/27/2000	--	--	5	NM	5	ND	NM	--	5	34	34	--	ND	--	ND	48	--	--	--
	ug/L	6/4/2001	--	--	5	NM	ND	20	NM	--	ND	28	28	--	ND	--	ND	95	--	--	--
	ug/L	12/3/2001	--	--	5	NM	ND	13	NM	--	ND	15	15	--	14	--	ND	28	--	--	--
	ug/L	6/10/2002	--	--	5	NM	ND	10	NM	--	ND	20	20	--	5	--	7	30	--	--	--
	ug/L	12/16/2002	--	--	5	NM	ND	15	NM	--	20	16	16	--	10	--	23	16	--	--	--
	ug/L	6/9/2003	--	--	5	NM	ND	16	NM	--	ND	14	14	--	5	--	8	52	--	--	--
	ug/L	12/8/2003	--	--	5	NM	ND	7	NM	--	6	26	26	--	6	--	7	92	--	--	--
	ug/L	6/29/2004	--	--	5	NM	5	6	NM	--	ND	--	--	75	--	12	5	211	--	--	--
	ug/L	12/20/2004	--	--	5	NM	ND	ND	NM	--	ND	--	--	39	--	ND	6	7	--	--	--
	ug/L	6/5/2005	--	--	2	NM	ND	ND	NM	--	ND	--	--	8	--	11	ND	28	--	--	--
	ug/L	12/5/2005	--	--	2	NM	4	10	NM	--	4	--	--	3	--	ND	ND	ND	--	--	--
	ug/L	6/5/2006	--	--	2	NM	3	4	NM	--	3	--	--	14	--	7	4	6	--	--	--
	ug/L	12/5/2006	--	--	2	NM	ND	2	NM	--	ND	--	--	3	--	ND	ND	4	--	--	--
	ug/L	5/30/2007	0.6	10	10	NM	1.1 B	ND	NM	--	1.7 B	ND	--	1.8 B	--	0.6 B	ND	7.2 J	--	ND	--
	ug/L	11/19/2007	0.45	1	10	NM	2.1	1.7	NM	--	1.1	4	--	60	--	7.2	17	50	--	1.1	--
	ug/L	5/19/2008	0.45	1	10	2.4	1.8	--	7.3	--	4.6	1.7	--	2	--	1.3	1.8	--	1.6	5.7	NM

Notes:

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Table 5
Summary of Historically Detected Constituents in Groundwater
City of Durham Closed Municipal Soild Waste Landfill
S&ME Project No. 1054-07-469
Permit No. 32-01

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	Solid Waste Section Limits	Background Well MW-9R	MW-2	MW-3	MW-3R	MW-4	MW-4R	MW-5	MW-6	MW-6R	MW-7	MW-7R	MW-8	PZ-6	Duplicate (MW-6R)	Equipment Blank	Trip Blank
Lead - (NC 2L = 15 ug/L)	ug/L	9/19/1994	--	--	5	NM	ND	ND	NM	ND	--	199	46	--	8.8	--	47	40	--	--	--
SWID # = 131	ug/L	12/2/1994	--	--	5	NM	14	6.6	NM	ND	--	77	19	--	53	--	10	30	--	--	--
	ug/L	2/7/1995	--	--	5	NM	7.8	6.3	NM	7	--	63	7.1	--	34	--	12	76	--	--	--
	ug/L	3/13/1995	--	--	5	NM	ND	ND	NM	ND	--	35	12	--	14	--	63	11	--	--	--
	ug/L	11/1/1995	--	--	5	NM	ND	12	NM	5	--	60	ND	--	9	--	ND	14	--	--	--
	ug/L	6/10/1996	--	--	5	NM	ND	42	NM	ND	--	ND	ND	--	ND	--	ND	25	--	--	--
	ug/L	11/12/1996	--	--	5	NM	ND	29	NM	ND	--	8	ND	--	10	--	ND	30	--	--	--
	ug/L	3/18/1997	--	--	5	NM	ND	8	NM	ND	--	ND	ND	--	10	--	ND	ND	--	--	--
	ug/L	10/2/1997	--	--	5	NM	ND	55	NM	ND	--	14	ND	--	22	--	7	16	--	--	--
	ug/L	5/26/1998	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	11	--	--	--
	ug/L	12/1/1998	--	--	5	NM	ND	8	NM	--	--	ND	ND	--	8	--	ND	36	--	--	--
	ug/L	6/7/1999	--	--	5	NM	ND	29	NM	--	--	8	--	--	54	--	ND	19	--	--	--
	ug/L	7/8/1999	--	--	5	NM	--	--	NM	--	29	--	30	--	--	--	--	--	--	--	--
	ug/L	12/15/1999	--	--	5	NM	ND	33	NM	--	ND	ND	ND	--	ND	--	ND	14	--	--	--
	ug/L	6/6/2000	--	--	5	NM	ND	12	NM	--	ND	16	--	--	28	--	ND	37	--	--	--
	ug/L	12/27/2000	--	--	5	NM	10	ND	NM	--	ND	82	52	--	ND	--	ND	20	--	--	--
	ug/L	6/4/2001	--	--	5	NM	8	20	NM	--	ND	68	21	--	ND	--	ND	35	--	--	--
	ug/L	12/3/2001	--	--	5	NM	ND	13	NM	--	ND	23	36	--	30	--	ND	23	--	--	--
	ug/L	6/10/2002	--	--	5	NM	ND	10	NM	--	ND	7	13	--	ND	--	ND	6	--	--	--
	ug/L	12/16/2002	--	--	5	NM	5	11	NM	--	8	ND	8	--	5	--	12	ND	--	--	--
	ug/L	6/9/2003	--	--	5	NM	ND	24	NM	--	ND	ND	ND	--	8	--	ND	ND	--	--	--
	ug/L	12/8/2003	--	--	5	NM	ND	ND	NM	--	ND	47	14	--	8	--	ND	35	--	--	--
	ug/L	6/29/2004	--	--	5	NM	ND	ND	NM	--	28	11	--	51	--	6	ND	83	--	--	--
	ug/L	12/20/2004	--	--	5	NM	ND	5	NM	--	ND	75	--	19	--	ND	ND	ND	--	--	--
	ug/L	6/5/2005	--	--	5	NM	ND	ND	NM	--	ND	39	--	ND	--	7	ND	13	--	--	--
	ug/L	12/5/2005	--	--	5	NM	ND	9	NM	--	ND	13	--	ND	--	ND	ND	ND	--	--	--
	ug/L	6/5/2006	--	--	5	NM	ND	ND	NM	--	ND	38	--	6	--	ND	ND	ND	--	--	--
	ug/L	12/5/2006	--	--	5	NM	ND	ND	NM	--	ND	12	--	ND	--	ND	ND	ND	--	--	--
	ug/L	5/30/2007	2	10	10	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	3.5 B	--	3.1 J	--
	ug/L	11/19/2007	2.4	5	10	NM	11	ND	NM	--	3.8	5.1	--	12	--	13	17	25	--	3.5	--
	ug/L	5/19/2008	2.4	5	5	ND	ND	--	ND	--	ND	ND	--	ND	--	ND	ND	--	ND	ND	NM
Mercury - (NC 2L=1.05 ug/L)	ug/L	12/1/1998	--	--	0.2	NM	ND	0.2	NM	--	--	ND	ND	--	ND	--	ND	0.2	--	--	--
SWID # = 132	ug/L	6/7/1999	--	--	0.2	NM	ND	0.2	NM	--	--	ND	--	--	ND	--	ND	0.2	--	--	--
	ug/L	7/8/1999	--	--	0.2	NM	--	--	NM	--	ND	--	ND	--	--	--	--	--	--	--	--
	ug/L	12/15/1999	--	--	5	NM	ND	33	NM	--	ND	ND	<5	--	ND	--	ND	14	--	--	--
	ug/L	6/6/2000	--	--	5	NM	ND	12	NM	--	ND	16	--	--	28	--	ND	37	--	--	--
	ug/L	12/22/2000	--	--	5	NM	10	<5	NM	--	ND	82	52	--	ND	--	ND	20	--	--	--
	ug/L	6/4/2001	--	--	5	NM	8	20	NM	--	ND	68	21	--	ND	--	ND	35	--	--	--
	ug/L	12/3/2001	--	--	5	NM	ND	13	NM	--	ND	23	36	--	30	--	ND	23	--	--	--
	ug/L	6/10/2002	--	--	5	NM	ND	10	NM	--	ND	7	13	--	ND	--	ND	6	--	--	--
	ug/L	12/16/2002	--	--	5	NM	5	11	NM	--	8	ND	8	--	5	--	12	ND	--	--	--
	ug/L	6/9/2003	--	--	5	NM	ND	24	NM	--	ND	ND	ND	--	8	--	ND	ND	--	--	--
	ug/L	12/8/2003	--	--	5	NM	ND	ND	NM	--	ND	47	14	--	8	--	ND	35	--	--	--
	ug/L	6/28/2004	--	--	5	NM	ND	ND	NM	--	28	11	--	51	--	6	ND	83	--	--	--
	ug/L	12/20/2004	--	--	5	NM	ND	5	NM	--	ND	75	--	19	--	ND	ND	ND	--	--	--
	ug/L	6/5/2005	--	--	5	NM	ND	ND	NM	--	ND	39	--	ND	--	7	ND	13	--	--	--
	ug/L	12/7/2005	--	--	5	NM	ND	9.0	NM	--	ND	13	--	ND	--	ND	ND	ND	--	--	--
	ug/L	6/5/2006	--	--	5	NM	ND	ND	NM	--	ND	38	--	6	--	ND	ND	ND	--	--	--
	ug/L	12/5/2006	--	--	5	NM	ND	ND	NM	--	ND	12	--	ND	--	ND	ND	ND	--	--	--
	ug/L	5/30/2007	0.11	0.2	0.2	NM	ND	ND	NM	--	ND	ND	--	0.2	--	ND	ND	ND	--	ND	--
	ug/L	11/19/2007	0.044	0.2	0.2	NM	ND	ND	NM	--	ND	ND	--	2.1	--	ND	ND	ND	--	ND	--
	ug/L	5/19/2008	0.044	0.2	0.2	ND	ND	--	ND	--	ND	ND	--	ND	--	ND	ND	--	ND	ND	NM

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Nickel - (NC 2L = 100 ug/L)	ug/L	9/19/1994	--	--	10	NM	15	ND	NM	ND	--	468	13	--	13	--	77	17	--	--	--
SWID # = 152	ug/L	12/2/1994	--	--	10	NM	ND	10	NM	ND	--	96	35	--	55	--	14	56	--	--	--
	ug/L	2/7/1995	--	--	10	NM	ND	ND	NM	ND	--	64	26	--	31	--	ND	211	--	--	--
	ug/L	3/13/1995	--	--	10	NM	ND	9.1	NM	ND	--	61	40	--	25	--	11	30	--	--	--
	ug/L	11/1/1995	--	--	10	NM	ND	15	NM	ND	--	68	28	--	16	--	ND	32	--	--	--
	ug/L	6/10/1996	--	--	10	NM	ND	22	NM	ND	--	ND	100	--	ND	--	ND	49	--	--	--
	ug/L	11/12/1996	--	--	10	NM	ND	24	NM	49	--	12	10	--	ND	--	ND	103	--	--	--
	ug/L	3/18/1997	--	--	10	NM	ND	16	NM	ND	--	ND	29	--	ND	--	ND	50	--	--	--
	ug/L	10/2/1997	--	--	10	NM	ND	18	NM	ND	--	ND	11	--	ND	--	ND	52	--	--	--
	ug/L	5/26/1998	--	--	10	NM	ND	19	NM	11	--	ND	23	--	ND	--	ND	43	--	--	--
	ug/L	12/1/1998	--	--	10	NM	ND	12	NM	--	--	ND	10	--	ND	--	ND	124	--	--	--
	ug/L	6/7/1999	--	--	10	NM	ND	35	NM	--	--	16	--	--	34	--	ND	126	--	--	--
	ug/L	7/8/1999	--	--	10	NM	--	--	NM	--	37	--	57	--	--	--	--	--	--	--	--
	ug/L	12/15/1999	--	--	10	NM	10	64	NM	--	ND	ND	44	--	ND	--	ND	227	--	--	--
	ug/L	6/6/2000	--	--	10	NM	ND	37	NM	--	ND	13	--	--	25	--	ND	343	--	--	--
	ug/L	12/27/2000	--	--	10	NM	ND	14	NM	--	ND	132	34	--	ND	--	ND	144	--	--	--
	ug/L	6/4/2001	--	--	10	NM	ND	13	NM	--	11	20	13	--	ND	--	ND	88	--	--	--
	ug/L	12/3/2001	--	--	10	NM	ND	21	NM	--	ND	19	34	--	16	--	ND	54	--	--	--
	ug/L	6/10/2002	--	--	10	NM	ND	16	NM	--	ND	ND	27	--	ND	--	ND	21	--	--	--
	ug/L	12/16/2002	--	--	10	NM	ND	19	NM	--	ND	ND	25	--	ND	--	14	33	--	--	--
	ug/L	6/9/2003	--	--	10	NM	ND	23	NM	--	ND	ND	19	--	ND	--	11	26	--	--	--
	ug/L	12/8/2003	--	--	10	NM	ND	13	NM	--	ND	29	36	--	ND	--	ND	99	--	--	--
	ug/L	6/29/2004	--	--	10	NM	12	15	NM	--	ND	14	--	10	--	10	ND	130	--	--	--
	ug/L	12/20/2004	--	--	10	NM	ND	ND	NM	--	ND	46	--	37	--	10	ND	10	--	--	--
	ug/L	6/5/2005	--	--	10	NM	ND	ND	NM	--	ND	13	--	18	--	11	ND	35	--	--	--
	ug/L	12/5/2005	--	--	10	NM	10	19	NM	--	ND	15	--	18	--	ND	ND	ND	--	--	--
	ug/L	6/5/2006	--	--	10	NM	ND	21	NM	--	ND	33	--	19	--	ND	ND	61	--	--	--
	ug/L	12/5/2006	--	--	10	NM	ND	10	NM	--	ND	ND	--	18	--	ND	ND	32	--	--	--
	ug/L	5/30/2007	2	10	50	NM	ND	2.5 J	NM	--	2.9 J	4.0 J	--	23.1 J	--	ND	2.9 J	27.4 J	--	ND	--
	ug/L	11/19/2007	9.8	20	50	NM	9.9	16	NM	--	ND	11	--	45	--	19	37	140	--	ND	--
	ug/L	5/19/2008	9.8	20	50	ND	ND	--	ND	--	ND	ND	--	17	--	ND	ND	--	16	ND	NM
Selenium - (NC 2L = 50 ug/L)	ug/L	9/19/1994	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
SWID # = 183	ug/L	12/2/1994	--	--	5	NM	7.6	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	2/7/1995	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	3/13/1995	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	11/1/1995	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/10/1996	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	11/12/1996	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	3/18/1997	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	10/2/1997	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	5/26/1998	--	--	5	NM	ND	9	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/1/1998	--	--	5	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/7/1999	--	--	5	NM	ND	ND	NM	--	--	ND	--	--	ND	--	ND	ND	--	--	--
	ug/L	7/8/1999	--	--	5	NM	--	--	NM	--	ND	--	ND	--	--	--	--	--	--	--	--
	ug/L	12/15/1999	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/6/2000	--	--	5	NM	ND	ND	NM	--	ND	ND	--	--	ND	--	ND	ND	--	--	--
	ug/L	12/27/2000	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/4/2001	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/3/2001	--	--	5	NM	ND	9	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/10/2002	--	--	5	NM	ND	9	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/16/2002	--	--	5	NM	ND	6	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/9/2003	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/8/2003	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/29/2004	--	--	5	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	12/20/2004	--	--	5	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	6/5/2005	--	--	5	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	12/5/2005	--	--	5	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	6/5/2006	--	--	5	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	12/5/2006	--	--	5	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	5/30/2007	2	10	10	NM	ND	ND	NM	--	ND	ND	--	2.8 B	--	ND	3.2 B	ND	--	ND	--
	ug/L	11/19/2007	0.43	1	10	NM	0.51	5.3	NM	--	1.5	1.5	--	4.2	--	1	2.5	1.4	--	0.52	--
	ug/L	5/19/2008	0.43	1	10	ND	ND	--	0.85	--	0.47	ND	--	0.96	--	ND	ND	--	1.4	ND	NM

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Tin - (No NC 2L Std.)	ug/L	12/1/1998	--	10	50	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	--	--
SWID # = 195	ug/L	6/7/1999	--	--	50	NM	ND	ND	NM	--	--	ND	--	--	ND	--	ND	ND	--	--	--
	ug/L	7/8/1999	--	--	50	NM	--	--	NM	--	ND	--	ND	--	--	--	--	--	--	--	--
	ug/L	12/15/1999	--	--	1	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/6/2000	--	--	1	NM	ND	ND	NM	--	ND	ND	--	--	ND	--	ND	ND	--	--	--
	ug/L	12/22/2000	--	--	1	NM	ND	ND	NM	--	ND	1	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/4/2001	--	--	1	NM	ND	ND	NM	--	ND	1	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/3/2001	--	--	1	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/10/2002	--	--	1	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/16/2002	--	--	1	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/9/2003	--	--	1	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/8/2003	--	--	1	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/29/2004	--	--	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	12/20/2004	--	--	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	6/5/2005	--	--	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	12/5/2005	--	--	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	6/5/2006	--	--	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	12/5/2006	--	--	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	5/30/2007	2	10	100	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	3.6 J	--
	ug/L	11/19/2007	7.6	20	100	NM	NM	NM	NM	--	NM	NM	--	NM	--	NM	NM	NM	--	NM	--
	ug/L	5/19/2008	7.6	20	100	ND	ND	--	ND	--	ND	ND	--	ND	--	ND	ND	--	ND	ND	NM
Vanadium - (GPS = 3.5 ug/L)	ug/L	9/19/1994	--	--	5	NM	23	ND	NM	ND	--	411	167	--	16	--	122	203	--	--	--
SWID # = 209	ug/L	12/2/1994	--	--	5	NM	ND	ND	NM	ND	--	124	6.7	--	68	--	7.9	51	--	--	--
	ug/L	2/7/1995	--	--	5	NM	ND	ND	NM	ND	--	99	6.9	--	37	--	6	206	--	--	--
	ug/L	3/13/1995	--	--	5	NM	ND	ND	NM	ND	--	85	6.7	--	9.7	--	9.4	16	--	--	--
	ug/L	11/1/1995	--	--	5	NM	ND	17	NM	8	--	16	ND	--	5	--	7	37	--	--	--
	ug/L	6/10/1996	--	--	5	NM	ND	34	NM	67	--	14	ND	--	ND	--	ND	50	--	--	--
	ug/L	11/12/1996	--	--	5	NM	ND	52	NM	9	--	25	ND	--	11	--	12	141	--	--	--
	ug/L	3/18/1997	--	--	5	NM	ND	16	NM	ND	--	ND	ND	--	ND	--	ND	141	--	--	--
	ug/L	10/2/1997	--	--	5	NM	ND	17	NM	ND	--	ND	ND	--	8.5	--	5.8	65	--	--	--
	ug/L	5/26/1998	--	--	5	NM	ND	5	NM	ND	--	ND	ND	--	5	--	5	20	--	--	--
	ug/L	12/1/1998	--	--	5	NM	ND	10	NM	--	--	ND	ND	--	ND	--	ND	110	--	--	--
	ug/L	6/7/1999	--	--	5	NM	ND	59	NM	--	--	11	--	--	45	--	ND	45	--	--	--
	ug/L	7/8/1999	--	--	5	NM	--	--	NM	--	16	--	48	--	--	--	--	--	--	--	--
	ug/L	12/15/1999	--	--	5	NM	ND	14	NM	--	ND	6	ND	--	ND	--	6	38	--	--	--
	ug/L	6/6/2000	--	--	5	NM	ND	34	NM	--	ND	23	--	--	36	--	6	109	--	--	--
	ug/L	12/27/2000	--	--	5	NM	ND	11	NM	--	ND	44	38	--	ND	--	ND	26	--	--	--
	ug/L	6/4/2001	--	--	5	NM	ND	ND	NM	--	ND	ND	6	--	ND	--	ND	22	--	--	--
	ug/L	12/3/2001	--	--	5	NM	ND	19	NM	--	ND	26	38	--	16	--	ND	25	--	--	--
	ug/L	6/10/2002	--	--	5	NM	ND	13	NM	--	ND	8	27	--	ND	--	9	12	--	--	--
	ug/L	12/16/2002	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	17	7	--	--	--
	ug/L	6/9/2003	--	--	5	NM	ND	ND	NM	--	ND	ND	8	--	6	--	9	5	--	--	--
	ug/L	12/8/2003	--	--	5	NM	ND	8	NM	--	ND	43	13	--	ND	--	5	46	--	--	--
	ug/L	6/29/2004	--	--	5	NM	ND	6	NM	--	ND	17	--	49	--	12	ND	59	--	--	--
	ug/L	12/20/2004	--	--	5	NM	ND	7	NM	--	ND	69	--	34	--	5	5	8	--	--	--
	ug/L	6/5/2005	--	--	5	NM	ND	ND	NM	--	ND	17	--	ND	--	17	ND	27	--	--	--
	ug/L	12/5/2005	--	--	5	NM	ND	14	NM	--	ND	16	--	ND	--	ND	ND	ND	--	--	--
	ug/L	6/5/2006	--	--	5	NM	ND	ND	NM	--	ND	42	--	9	--	7	ND	ND	--	--	--
	ug/L	12/5/2006	--	--	5	NM	ND	ND	NM	--	ND	7	--	ND	--	ND	ND	ND	--	--	--
	ug/L	5/30/2007	1	10	25	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	5.4 J	--	ND	--
	ug/L	11/19/2007	2.9	10	25	NM	3.1	ND	NM	--	ND	3.8	--	13	--	13	17	20	--	ND	--
	ug/L	5/19/2008	2.9	10	25	4	ND	--	9.0	--	ND	ND	--	ND	--	ND	ND	--	ND	ND	NM

Notes:

ug/L = micrograms per liter
mg/L= milligrams per liter
S.U. = Standard Units
NTU = Nephelometric Turbidity Units
mV= millivolts
ND = Not detected at the stated reporting limit
ORP= Oxidation Reduction Potential
µS/cm= micro Siemens per centimeter
-- = no data available
Blanks = field, trip and method blanks
NM= not measured/analyzed
NS= not sampled

Shaded = Concentrations above the NC 2L or Solid Waste Section Groundwater Protection Standards have been shaded
* Sample data from 9/94 through 12/98 compiled and reported by Malcolm Pirnie, Inc.
* Sample data from 6/99 through 12/06 collected, compiled and reported by Weston Solutions, Inc.
* Sample data from 5/07 collected, compiled and reported by Golder Associates.
* Sample data from11/07 collected, compiled and reported by S&ME.
* Laboratory data prior to November 2007 was not validated by S&ME. Solid Waste Section Limits = NCPQL from 9/14/94 through 12/5/06 and NCSWSL for 5/30/07 and later

Table 5
Summary of Historically Detected Constituents in Groundwater
City of Durham Closed Municipal Soild Waste Landfill
S&ME Project No. 1054-07-469
Permit No. 32-01

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	Solid Waste Section Limits	Background Well MW-9R	MW-2	MW-3	MW-3R	MW-4	MW-4R	MW-5	MW-6	MW-6R	MW-7	MW-7R	MW-8	PZ-6	Duplicate (MW-6R)	Equipment Blank	Trip Blank
Zinc - (NC 2L = 1050 ug/L)	ug/L	9/19/1994	--	--	10	NM	34	ND	NM	ND	--	1030	445	--	ND	--	207	303	--	--	--
SWID # = 213	ug/L	12/2/1994	--	--	10	NM	ND	17	NM	ND	--	202	169	--	140	--	ND	106	--	--	--
	ug/L	2/7/1995	--	--	10	NM	ND	ND	NM	ND	--	183	76	--	74	--	70	477	--	--	--
	ug/L	3/13/1995	--	--	10	NM	ND	17	NM	17	--	185	150	--	114	--	59	291	--	--	--
	ug/L	11/1/1995	--	--	10	NM	ND	12	NM	13	--	225	ND	--	15	--	ND	65	--	--	--
	ug/L	6/10/1996	--	--	10	NM	ND	69	NM	ND	--	ND	ND	--	ND	--	ND	125	--	--	--
	ug/L	11/12/1996	--	--	10	NM	ND	132	NM	12	--	26	22	--	16	--	11	134	--	--	--
	ug/L	3/18/1997	--	--	10	NM	ND	30	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	10/2/1997	--	--	10	NM	23	52	NM	ND	--	ND	ND	--	19	--	ND	96	--	--	--
	ug/L	5/26/1998	--	--	10	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	20	--	--	--
	ug/L	12/1/1998	--	--	10	NM	11	16	NM	--	--	ND	12	--	ND	--	ND	121	--	--	--
	ug/L	6/7/1999	--	--	10	NM	31	87	NM	--	--	31	--	--	156	--	92	77	--	--	--
	ug/L	7/8/1999	--	--	10	NM	--	--	NM	--	64	--	198	--	--	--	--	--	--	--	--
	ug/L	12/15/1999	--	--	10	NM	38	56	NM	--	56	50	22	--	26	--	33	100	--	--	--
	ug/L	6/6/2000	--	--	10	NM	17	20	NM	--	ND	28	--	--	67	--	ND	267	--	--	--
	ug/L	12/27/2000	--	--	10	NM	28	22	NM	--	257	414	200	--	46	--	ND	100	--	--	--
	ug/L	6/4/2001	--	--	10	NM	24	60	NM	--	162	269	96	--	191	--	121	80	--	--	--
	ug/L	12/3/2001	--	--	10	NM	59	39	NM	--	214	55	87	--	37	--	249	73	--	--	--
	ug/L	6/10/2002	--	--	10	NM	52	27	NM	--	141	20	93	--	68	--	168	41	--	--	--
	ug/L	12/16/2002	--	--	10	NM	12	34	NM	--	26	14	150	--	28	--	37	27	--	--	--
	ug/L	6/9/2003	--	--	10	NM	19	49	NM	--	10	ND	72	--	19	--	27	12	--	--	--
	ug/L	12/8/2003	--	--	10	NM	18	16	NM	--	13	216	212	--	11	--	11	261	--	--	--
	ug/L	6/29/2004	--	--	10	NM	18	15	NM	--	ND	35	--	226	--	59	ND	369	--	--	--
	ug/L	12/20/2004	--	--	10	NM	52	35	NM	--	ND	134	--	77	--	15	13	17	--	--	--
	ug/L	6/5/2005	--	--	10	NM	44	ND	NM	--	ND	103	--	16	--	55	20	56	--	--	--
	ug/L	12/5/2005	--	--	10	NM	74	28	NM	--	ND	35	--	10	--	ND	ND	ND	--	--	--
	ug/L	6/5/2006	--	--	10	NM	31	11	NM	--	ND	98	--	24	--	18	ND	14	--	--	--
	ug/L	12/5/2006	--	--	10	NM	14	16	NM	--	ND	26	--	ND	--	ND	ND	ND	--	--	--
	ug/L	5/30/2007	1	10	10	NM	10.4 B	ND	NM	--	1.1 B	3.3 B	--	6.8 B	--	12.3	4.4 B	18.4	--	2.4 J	--
	ug/L	11/19/2007	3	10	10	NM	21	55	NM	--	20	58	--	100	--	66	52	160	--	90	--
	ug/L	5/19/2008	3	10	10	12	8.7	--	45	--	30	54	--	23	--	34	4.6	--	27	ND	NM
Acetone - (NC 2L = 700 ug/L)	ug/L	9/19/1994	--	--	--	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
SWID # = 3	ug/L	12/2/1994	--	--	--	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	2/7/1995	--	--	--	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	49.8	ND	--	--	--
	ug/L	3/13/1995	--	--	--	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	11/1/1995	--	--	--	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/10/1996	--	--	25	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	11/12/1996	--	--	25	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	3/18/1997	--	--	25	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	10/2/1997	--	--	25	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	5/26/1998	--	--	20	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/1/1998	--	--	20	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	235	ND	--	ND	--
	ug/L	2/26/1999	--	--	20	NM	--	--	NM	--	--	--	--	--	--	--	ND	--	--	--	--
	ug/L	6/7/1999	--	--	20	NM	ND	ND	NM	--	--	ND	--	--	ND	--	ND	ND	--	ND	--
	ug/L	7/8/1999	--	--	20	NM	--	--	NM	--	ND	--	ND	--	--	--	--	--	--	--	--
	ug/L	12/15/1999	--	--	50	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/6/2000	--	--	50	NM	ND	ND	NM	--	ND	ND	--	--	ND	--	ND	ND	--	ND	--
	ug/L	12/27/2000	--	--	20	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/4/2001	--	--	20	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	12/3/2001	--	--	20	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/10/2002	--	--	20	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	12/16/2002	--	--	20	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/9/2003	--	--	20	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	12/8/2003	--	--	20	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/29/2004	--	--	20	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	12/20/2004	--	--	10	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2005	--	--	10	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2005	2.5	--	10	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2006	--	--	10	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2006	--	--	10	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	5/30/2007	0.9	5	100	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	1.7 B	ND	--	3.8 J	3.2 J
	ug/L	11/19/2007	8.9	50	100	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	ND
	ug/L	5/19/2008	8.9	50	100	ND	ND	--	ND	--	ND	ND	--	ND	--	ND	ND	--	ND	13	13

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S&ME Project No. 1054-07-469
Permit No. 32-01

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	Solid Waste Section Limits	Background Well MW-9R	MW-2	MW-3	MW-3R	MW-4	MW-4R	MW-5	MW-6	MW-6R	MW-7	MW-7R	MW-8	PZ-6	Duplicate (MW-6R)	Equipment Blank	Trip Blank
Benzene - (NC 2L= 1 ug/L)	ug/L	9/19/1994	--	--	--	NM	--	--	NM	--	--	--	--	--	ND	--	ND	--	--	--	--
SWID # = 16	ug/L	12/2/1994	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	2/7/1995	--	--	--	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	3/13/1995	--	--	--	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	11/1/1995	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/10/1996	--	--	1	NM	ND	2	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	9/3/1996	--	--	--	NM	--	1.8	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/2/1996	--	--	--	NM	--	1.2	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	11/2/1996	--	--	1	NM	ND	1.7	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	3/18/1997	--	--	1	NM	ND	1.6	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	10/2/1997	--	--	1	NM	ND	2.1	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	5/26/1998	--	--	1	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	12/1/1998	--	--	1	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/7/1999	--	--	5	NM	ND	ND	NM	--	--	ND	--	--	ND	--	ND	ND	--	--	--
	ug/L	7/8/1999	--	--	5	NM	--	--	NM	--	ND	--	ND	--	--	--	--	--	--	ND	--
	ug/L	12/15/1999	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/6/2000	--	--	5	NM	ND	ND	NM	--	ND	ND	--	--	ND	--	ND	ND	--	ND	--
	ug/L	12/27/2000	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/4/2001	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	12/3/2001	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/10/2002	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	12/16/2002	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/9/2003	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	12/8/2003	--	--	3	NM	ND	0.83 J	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/29/2004	--	--	3	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	12/20/2004	--	--	0.5	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2005	--	--	0.5	NM	ND	1.1	NM	--	ND	ND	--	2.7	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2005	0.14	--	0.5	NM	ND	0.9	NM	--	ND	ND	--	2.8	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2006	--	--	0.5	NM	ND	0.87	NM	--	ND	ND	--	3.8	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2006	--	--	0.5	NM	ND	ND	NM	--	ND	ND	--	3.4	--	ND	ND	ND	--	ND	--
	ug/L	5/30/2007	0.12	1	1	NM	ND	0.47 J	NM	--	ND	ND	--	2.6	--	ND	ND	ND	--	ND	ND
	ug/L	11/19/2007	0.29	1	1	NM	ND	0.52	NM	--	ND	ND	--	3.1	--	ND	ND	ND	--	ND	ND
	ug/L	5/19/2008	0.29	1	1	ND	ND	--	ND	--	ND	ND	--	4.3	--	ND	ND	--	4.3	ND	ND
Chlorobenzene - (NC 2L= 50 ug/L)	ug/L	9/19/1994	--	--	--	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	--	--
SWID # = 39	ug/L	12/2/1994	--	--	--	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	2/7/1995	--	--	--	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	3/13/1995	--	--	--	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	11/1/1995	--	--	--	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/10/1996	--	--	--	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	9/3/1996	--	--	--	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	10/2/1996	--	--	--	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	11/12/1996	--	--	--	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	3/18/1997	--	--	--	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	10/2/1997	--	--	--	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/1/1998	--	--	--	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/7/1999	--	--	--	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	7/8/1999	--	--	--	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/15/1999	--	--	--	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/6/2000	--	--	--	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/27/2000	--	--	--	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/4/2001	--	--	--	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/3/2001	--	--	--	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/10/2002	--	--	--	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/16/2002	--	--	--	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/9/2003	--	--	--	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/8/2003	--	--	1	NM	ND	1 J	NM	--	ND	ND	ND	ND	ND	--	ND	ND	--	ND	--
	ug/L	6/29/2004	--	--	1	NM	ND	ND	NM	--	ND	ND	ND	ND	ND	--	ND	ND	--	ND	--
	ug/L	12/20/2004	--	--	1	NM	ND	1.2	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2005	--	--	1	NM	ND	1.4	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2005	0.24	--	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2006	--	--	1	NM	ND	1.6	NM	--	ND	ND	--	0.73 J	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2006	--	--	1	NM	ND	ND	NM	--	ND	ND	--	--	--	ND	ND	ND	--	ND	--
	ug/L	5/30/2007	0.16	1	3	NM	ND	ND	NM	--	ND	ND	--	1.6 J	--	ND	ND	ND	--	ND	ND
	ug/L	11/19/2007	0.26	1	3	NM	ND	0.71	NM	--	ND	ND	--	0.66	--	ND	ND	ND	--	ND	ND
	ug/L	5/19/2008	0.26	1	3	ND	ND	--	ND	--	ND	ND	--	0.73	--	ND	ND	--	0.72	ND	ND

Notes:
ug/L = micrograms per liter
mg/L= milligrams per liter
S.U. = Standard Units
NTU = Nephelometric Turbidity Units
mV= millivolts
ND = Not detected at the stated reporting limit
ORP= Oxidation Reduction Potential
µS/cm= micro Siemens per centimeter
-- = no data available
Blanks = field, trip and method blanks
NM= not measured/analyzed
NS= not sampled

Shaded = Concentrations above the NC 2L or Solid Waste Section Groundwater Protection Standards have been shaded
* Sample data from 9/94 through 12/98 compiled and reported by Malcolm Pirnie, Inc.
* Sample data from 6/99 through 12/06 collected, compiled and reported by Weston Solutions, Inc.
* Sample data from 5/07 collected, compiled and reported by Golder Associates.
* Sample data from11/07 collected, compiled and reported by S&ME.
* Laboratory data prior to November 2007 was not validated by S&ME. Solid Waste Section Limits = NCPQL from 9/14/94 through 12/5/06 and NCSWSL for 5/30/07 and later

Table 5
Summary of Historically Detected Constituents in Groundwater
City of Durham Closed Municipal Soild Waste Landfill
S&ME Project No. 1054-07-469
Permit No. 32-01

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	Solid Waste Section Limits	Background Well MW-9R	MW-2	MW-3	MW-3R	MW-4	MW-4R	MW-5	MW-6	MW-6R	MW-7	MW-7R	MW-8	PZ-6	Duplicate (MW-6R)	Equipment Blank	Trip Blank
Chloroethane - (NC 2L= 2800 ug/L)	ug/L ug/L	12/2/1994	--	--	10	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
SWID # = 41	ug/l	9/22/1994	--	--	--	NM	--	--	NM	--	--	--	--	--	ND	--	ND	--	--	--	--
	ug/L	2/7/1995	--	--	--	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	3/13/1995	--	--	--	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	11/1/1995	--	--	10	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/7/1996	--	--	1	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	9/3/1996	--	--	--	NM	--	1.2	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	11/13/1996	--	--	1	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	3/18/1997	--	--	1	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	10/2/1997	--	--	1	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/1/1998	--	--	5	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/7/1999	--	--	10	NM	ND	ND	NM	--	--	ND	--	--	ND	--	ND	ND	--	ND	--
	ug/L	7/8/1999	--	--	10	NM	--	--	NM	--	ND	--	ND	--	--	--	--	--	--	--	--
	ug/L	12/15/1999	--	--	10	NM	ND	ND	NM	--	ND	ND	--	--	ND	--	ND	ND	--	ND	--
	ug/L	6/6/2000	--	--	10	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	12/13/2000	--	--	10	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/4/2001	--	--	10	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	12/3/2001	--	--	10	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/10/2002	--	--	10	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	12/16/2002	--	--	10	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/9/2003	--	--	10	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	12/8/2003	--	--	10	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/28/2004	--	--	10	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	12/20/2004	--	--	5	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2005	--	--	5	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2005	1.6	--	5	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2006	--	--	5	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2006	--	--	5	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	5/30/2007	0.4	1	10	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	ND
	ug/L	11/19/2007	0.86	5	10	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	ND
	ug/L	5/19/2008	0.86	5	10	ND	ND	--	ND	--	ND	ND	--	ND	--	ND	ND	--	ND	ND	ND
1,2-Dichlorobenzene - (NC 2L= 24 ug/L)	ug/L	5/30/2007	0.17	1	5	NM	ND	ND	NM	--	ND	ND	--	0.51 J	--	ND	ND	ND	--	ND	ND
SWID # = 69	ug/L	11/19/2007	0.29	1	5	NM	ND	ND	NM	--	ND	ND	--	0.43	--	ND	ND	ND	--	ND	ND
	ug/L	5/19/2008	0.29	1	5	ND	ND	--	ND	--	ND	ND	--	0.64			ND	--	0.62	ND	ND
1,4-Dichlorobenzene - (NC 2L= 1.4 ug/L)	ug/l	12/8/2003	--	--	1	NM	ND	0.87 J	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
SWID # = 71	ug/l	6/28/2004	--	--	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/l	12/20/2004	--	--	1	NM	ND	ND	NM	--	ND	ND	--	2.5	--	ND	ND	ND	--	ND	--
	ug/l	6/5/2005	--	--	1	NM	ND	ND	NM	--	ND	ND	--	2.5	--	ND	ND	ND	--	ND	--
	ug/l	12/5/2005	0.32	--	1	NM	ND	1	NM	--	ND	ND	--	3.5	--	ND	ND	ND	--	ND	--
	ug/l	6/5/2006	--	--	1	NM	ND	1.2	NM	--	ND	ND	--	3.6	--	ND	ND	ND	--	ND	--
	ug/l	12/5/2006	--	--	1	NM	ND	ND	NM	--	ND	ND	--	4.4	--	ND	ND	ND	--	ND	--
	ug/l	5/30/2007	0.15	1	1	NM	ND	ND	NM	--	ND	ND	--	3.4	--	ND	ND	ND	--	ND	ND
	ug/L	11/19/2007	0.3	1	1	NM	ND	ND	NM	--	ND	ND	--	3.7	--	ND	ND	ND	--	ND	ND
	ug/L	5/19/2008	0.3	1	1	ND	ND	--	ND	--	ND	ND	--	4.6	--	ND	ND	--	4.5	ND	ND
1,1-Dichloroethane - (NC 2L= 70 ug/L)	ug/L	12/8/2003	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
SWID # = 75	ug/L	6/28/2004	--	--	5	NM	ND	ND	NM	--	ND	ND	--	3.7 J	--	ND	ND	ND	--	ND	--
	ug/L	12/20/2004	--	--	1	NM	ND	ND	NM	--	ND	ND	--	4.4	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2005	--	--	1	NM	ND	ND	NM	--	ND	ND	--	5.3	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2005	0.38	--	1	NM	ND	ND	NM	--	ND	ND	--	4.3	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2006	--	--	1	NM	ND	ND	NM	--	ND	ND	--	4.5	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2006	--	--	1	NM	ND	ND	NM	--	ND	ND	--	4.2	--	ND	ND	ND	--	ND	--
	ug/L	5/30/2007	0.09	1	5	NM	ND	ND	NM	--	ND	ND	--	3.6 J	--	ND	ND	ND	--	ND	ND
	ug/L	11/19/2007	0.31	1	5	NM	ND	ND	NM	--	ND	ND	--	5.6	--	ND	ND	ND	--	ND	ND
	ug/L	5/19/2008	0.31	1	5	ND	ND	--	ND	--	ND	ND	--	4.2	--	ND	ND	--	4.2	ND	ND
cis-1,2-Dichloroethene - (NC 2L= 70 ug/L)	ug/L	9/22/1994	--	--	--	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
SWID # = 78	ug/L	12/2/1994	--	--	--	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	2/7/1995	--	--	--	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	3/13/1995	--	--	--	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	11/1/1995	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/7/1996	--	--	1	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	9/3/1996	--	--	--	NM	--	1.0	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	11/13/1996	--	--	1	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	3/18/1997	--	--	1	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	10/2/1997	--	--	1	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/1/1998	--	--	2	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/7/1999	--	--	5	NM	ND	ND	NM	--	--	ND	--	--	ND	--	ND	ND	--	ND	--
	ug/L	7/8/1999	--	--	5	NM	--	--	NM	--	ND	--	ND	--	--	--	--	--	--	--	--
	ug/L	12/15/1999	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/6/2000	--	--	5	NM	ND	ND	NM	--	ND	ND	--	--	ND	--	ND	ND	--	ND	--
	ug/L	12/13/2000	--	--	5	NM	ND	ND	NM	--	ND	ND	--	--	ND	--	ND	ND	--	ND	--
	ug/L	6/4/2001	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	12/3/2001	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/10/2002	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	12/16/2002	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/9/2003	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	12/8/2003	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/28/2004	--	--	5	NM	ND	ND	NM	--	ND	ND	--	46	--	ND	ND	ND	--	ND	--
	ug/L	12/20/2004	--	--	1	NM	ND	ND	NM	--	ND	ND	--	45	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2005	--	--	1	NM	ND	ND	NM	--	ND	ND	--	90	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2005	0.47	--	1	NM	1.1	ND	NM	--	ND	ND	--	68	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2006	--	--	1	NM	ND	ND	NM	--	ND	ND	--	97	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2006	--	--	1	NM	ND	ND	NM	--	ND	ND	--	78	--	ND	ND	ND	--	ND	--
	ug/L	5/30/2007	0.14	1	5	NM	ND	ND	NM	--	ND	ND	--	89	--	ND	ND	ND	--	ND	ND
	ug/L	11/19/2007	0.38	1	5	NM	0.62	ND	NM	--	ND	ND	--	98	--	ND	ND	ND	--	ND	ND
	ug/L	5/19/2008	0.38	1	5	ND	ND	--	ND	--	ND	ND	--	140	--	ND	ND	--	140	ND	ND

Notes:
ug/L = micrograms per liter
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mV= millivolts
ND = Not detected at the stated reporting limit
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S&ME Project No. 1054-07-469
Permit No. 32-01

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	Solid Waste Section Limits	Background Well MW-9R	MW-2	MW-3	MW-3R	MW-4	MW-4R	MW-5	MW-6	MW-6R	MW-7	MW-7R	MW-8	PZ-6	Duplicate (MW-6R)	Equipment Blank	Trip Blank
trans-1,2-Dichloroethene - (NC 2L= 100 ug/L)	ug/L	12/8/2003	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
SWID # = 79	ug/L	6/28/2004	--	--	5	NM	ND	ND	NM	--	ND	ND	--	2.6 J	--	ND	ND	ND	--	ND	--
	ug/L	12/20/2004	--	--	2	NM	ND	ND	NM	--	ND	ND	--	3.5	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2005	--	--	2	NM	ND	ND	NM	--	ND	ND	--	4.4	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2005	0.56	--	2	NM	ND	ND	NM	--	ND	ND	--	3.8	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2006	--	--	2	NM	ND	ND	NM	--	ND	ND	--	5.1	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2006	--	--	2	NM	ND	ND	NM	--	ND	ND	--	4.5	--	ND	ND	ND	--	ND	--
	ug/L	5/30/2007	0.1	1	5	NM	ND	ND	NM	--	ND	ND	--	3.7 J	--	ND	ND	ND	--	ND	ND
	ug/L	11/19/2007	0.3	1	5	NM	ND	ND	NM	--	ND	ND	--	5.9	--	ND	ND	ND	--	ND	ND
	ug/L	5/19/2008	0.3	1	5	ND	ND	--	ND	--	ND	ND	--	5.7	--	ND	ND	--	5.9	ND	ND
1,2-Dichloropropane - (NC 2L= 0.51 ug/L)	ug/L	12/8/2003	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
SWID # = 82	ug/L	6/28/2004	--	--	5	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	12/20/2004	--	--	1	NM	ND	ND	NM	--	ND	ND	--	1.8	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2005	--	--	1	NM	ND	ND	NM	--	ND	ND	--	2.4	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2005	0.26	--	1	NM	ND	ND	NM	--	ND	ND	--	2.4	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2006	--	--	1	NM	ND	ND	NM	--	ND	ND	--	3.5	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2006	--	--	1	NM	ND	ND	NM	--	ND	ND	--	2.3	--	ND	ND	ND	--	ND	--
	ug/L	5/30/2007	0.18	1	1	NM	ND	ND	NM	--	ND	ND	--	2.0	--	ND	ND	ND	--	ND	ND
	ug/L	11/19/2007	0.52	1	1	NM	ND	ND	NM	--	ND	ND	--	2.8	--	ND	ND	ND	--	ND	ND
	ug/L	5/19/2008	0.52	1	1	ND	ND	--	ND	--	ND	ND	--	3.3	--	ND	ND	--	3.5	ND	ND
Ethylbenzene - (NC 2L = 550 ug/L)	ug/L	5/30/2007	--	1	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	ND
SWID # = 110	ug/L	11/19/2007	0.22	1	1	NM	0.6	0.48	NM	--	ND	ND	--	ND	--	ND	ND	0.38	--	ND	ND
	ug/L	5/19/2008	0.22	1	1	ND	ND	--	ND	--	ND	ND	--	ND	--	ND	ND	--	ND	ND	ND
Methylene Chloride - (NC 2L= 4.6 ug/L)	ug/L	9/22/1994	--	--	--	NM	--	--	NM	--	--	--	--	--	14.6	--	ND	--	--	--	--
SWID # = 140	ug/L	12/2/1994	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	2/7/1995	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	3/13/1995	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	11/1/1995	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/7/1996	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	11/13/1996	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	3/18/1997	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	10/2/1997	--	--	5	NM	ND	ND	NM	ND	--	22	ND	--	ND	--	ND	ND	--	--	--
	ug/L	5/26/1998	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/1/1998	--	--	5	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/7/1999	--	--	5	NM	ND	ND	NM	--	--	ND	--	--	ND	--	ND	ND	--	ND	--
	ug/L	7/8/1999	--	--	5	NM	--	--	NM	--	ND	--	ND	--	--	--	--	--	--	--	--
	ug/L	12/15/1999	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/6/2000	--	--	5	NM	ND	ND	NM	--	ND	ND	--	--	ND	--	ND	ND	--	ND	--
	ug/L	12/22/2000	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/4/2001	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	12/3/2001	--	--	5	NM	92	66	NM	--	ND	68	91	--	68	--	66	77	--	ND	--
	ug/L	6/10/2002	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	12/16/2002	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/9/2003	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	12/8/2003	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/28/2004	--	--	5	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	12/20/2004	--	--	2	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2005	--	--	2	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2005	0.61	--	2	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2006	--	--	2	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2006	--	--	2	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	5/30/2007	0.088	1	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	ND
	ug/L	11/19/2007	0.3	5	1	NM	0.47	0.046	NM	--	ND	ND	--	ND	--	ND	ND	0.42	--	0.038	0.49
	ug/L	5/19/2008	0.3	5	1	ND	ND	--	ND	--	ND	ND	--	ND	--	ND	ND	--	ND	ND	ND
Tetrachloroethene - (NC 2L= 0.7 ug/L)	ug/L	6/5/2005	--	--	1	NM	ND	ND	NM	--	ND	ND	--	1.9	--	ND	ND	ND	--	ND	--
SWID # = 192	ug/L	12/5/2005	0.49	--	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2006	--	--	1	NM	ND	ND	NM	--	ND	ND	--	1.9	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2006	--	--	1	NM	ND	ND	NM	--	ND	ND	--	0.55 J	--	ND	ND	ND	--	ND	--
	ug/L	5/30/2007	0.25	1	1	NM	ND	ND	NM	--	ND	ND	--	0.64 J	--	ND	ND	ND	--	ND	ND
	ug/L	11/19/2007	0.29	1	1	NM	ND	ND	NM	--	ND	ND	--	0.46	--	ND	ND	ND	--	ND	ND
	ug/L	5/19/2008	0.29	1	1	ND	ND	--	ND	--	ND	ND	--	ND	--	ND	ND	--	ND	ND	ND

Notes:

ug/L = micrograms per liter
mg/L= milligrams per liter
S.U. = Standard Units
NTU = Nephelometric Turbidity Units
mV= millivolts
ND = Not detected at the stated reporting limit
ORP= Oxidation Reduction Potential
µS/cm= micro Siemens per centimeter
-- = no data available
Blanks = field, trip and method blanks
NM= not measured/analyzed
NS= not sampled

Shaded = Concentrations above the NC 2L or Solid Waste Section Groundwater Protection Standards have been shaded
* Sample data from 9/94 through 12/98 compiled and reported by Malcolm Pirnie, Inc.
* Sample data from 6/99 through 12/06 collected, compiled and reported by Weston Solutions, Inc.
* Sample data from 5/07 collected, compiled and reported by Golder Associates.
* Sample data from11/07 collected, compiled and reported by S&ME.
* Laboratory data prior to November 2007 was not validated by S&ME. Solid Waste Section Limits = NCPQL from 9/14/94 through 12/5/06 and NCSWSL for 5/30/07 and later

Table 5
Summary of Historically Detected Constituents in Groundwater
City of Durham Closed Municipal Soild Waste Landfill
S&ME Project No. 1054-07-469
Permit No. 32-01

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	Solid Waste Section Limits	Background Well MW-9R	MW-2	MW-3	MW-3R	MW-4	MW-4R	MW-5	MW-6	MW-6R	MW-7	MW-7R	MW-8	PZ-6	Duplicate (MW-6R)	Equipment Blank	Trip Blank
Toluene - (NC 2L= 1000 ug/L)	ug/L	9/19/1994	--	--	--	NM	--	--	NM	--	--	--	--	--	ND	--	ND	--	--	--	--
SWID # = 196	ug/L	12/2/1994	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	2/7/1995	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	3/13/1995	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	11/1/1995	--	--	5	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/10/1996	--	--	1	NM	ND	ND	NM	1.9 B	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	11/12/1996	--	--	1	NM	ND	1.7	NM	1.2	--	ND	ND	--	1.2	--	ND	ND	--	--	--
	ug/L	3/18/1997	--	--	1	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	10/2/1997	--	--	1	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	5/26/1998	--	--	1	NM	ND	ND	NM	ND	--	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/1/1998	--	--	1	NM	ND	ND	NM	--	--	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/7/1999	--	--	5	NM	ND	ND	NM	--	--	ND	--	--	ND	--	ND	ND	--	ND	--
	ug/L	7/8/1999	--	--	5	NM	--	--	NM	--	ND	--	ND	--	--	--	--	--	--	--	--
	ug/L	12/15/1999	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/6/2000	--	--	5	NM	ND	ND	NM	--	ND	ND	--	--	ND	--	ND	ND	--	ND	--
	ug/L	12/22/2000	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/4/2001	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	12/3/2001	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/10/2002	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	12/16/2002	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/9/2003	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	12/8/2003	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
	ug/L	6/29/2004	--	--	5	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	12/20/2004	--	--	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2005	--	--	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2005	0.39	--	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2006	--	--	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2006	--	--	1	NM	ND	ND	NM	--	ND	ND	--	1.2	--	ND	ND	ND	--	ND	--
	ug/L	5/30/2007	0.15	1	1	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	0.33 J	ND
	ug/L	11/19/2007	0.27	1	1	NM	0.37	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	ND
	ug/L	5/19/2008	0.27	1	1	ND	ND	--	ND	--	ND	ND	--	ND	--	0.45	ND	--	ND	0.66	ND
Trichloroethene - (NC 2L= 2.8 ug/L)	ug/L	12/8/2003	--	--	5	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
SWID # = 201	ug/L	6/28/2004	--	--	5	NM	ND	ND	NM	--	ND	ND	--	3.4 J	--	ND	ND	ND	--	ND	--
	ug/L	12/20/2004	--	--	2	NM	ND	ND	NM	--	ND	ND	--	3.5	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2005	--	--	2	NM	ND	ND	NM	--	ND	ND	--	4.7	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2005	0.52	--	2	NM	ND	ND	NM	--	ND	ND	--	3.9	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2006	--	--	2	NM	ND	ND	NM	--	ND	ND	--	2.9	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2006	--	--	2	NM	ND	ND	NM	--	ND	ND	--	2.2	--	ND	ND	ND	--	ND	--
	ug/L	5/30/2007	0.23	1	1	NM	ND	ND	NM	--	ND	ND	--	2.6	--	ND	ND	ND	--	ND	ND
	ug/L	11/19/2007	0.37	1	1	NM	ND	ND	NM	--	ND	ND	--	3.1	--	ND	ND	ND	--	ND	ND
	ug/L	5/19/2008	0.37	1	1	ND	ND	--	ND	--	ND	ND	--	1.6	--	ND	ND	--	1.6	ND	ND
Vinyl Chloride - (NC 2L= 0.015 ug/L)	ug/L	12/8/2003	--	--	10	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	ND	--
SWID # = 211	ug/L	6/28/2004	--	--	10	NM	ND	ND	NM	--	ND	ND	--	9.9 J	--	ND	ND	ND	--	ND	--
	ug/L	12/20/2004	--	--	2	NM	ND	ND	NM	--	ND	ND	--	12	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2005	--	--	2	NM	ND	ND	NM	--	ND	ND	--	16	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2005	0.6	--	2	NM	ND	ND	NM	--	ND	ND	--	13	--	ND	ND	ND	--	ND	--
	ug/L	6/5/2006	--	--	2	NM	ND	ND	NM	--	ND	ND	--	16	--	ND	ND	ND	--	ND	--
	ug/L	12/5/2006	--	--	2	NM	ND	ND	NM	--	ND	ND	--	15	--	ND	ND	ND	--	ND	--
	ug/L	5/30/2007	0.15	1	1	NM	ND	ND	NM	--	ND	ND	--	14	--	ND	ND	ND	--	ND	ND
	ug/L	11/19/2007	0.27	1	1	NM	ND	ND	NM	--	ND	ND	--	23	--	ND	ND	ND	--	ND	ND
	ug/L	5/19/2008	0.27	1	1	ND	ND	--	ND	--	ND	ND	--	21	--	ND	ND	--	22	ND	ND
Bis(2-ethylhexyl)phthalate - (NC 2L= 2.5 ug/L)	ug/L	5/30/2007	1	10	15	NM	1.2 J	1.1 J	NM	--	1.2 J	ND	--	ND	--	ND	ND	3.0 J	--	ND	--
SWID # = 11	ug/L	11/19/2007	1.3	10	15	NM	NM	ND	NM	--	NM	NM	--	NM	--	NM	NM	ND	--	NM	NM
	ug/L	5/19/2008	1.3	10	10	ND	ND	--	ND	--	ND	ND	--	ND	--	ND	ND	--	ND	ND	NM
Di-n-octylphthalate - (NC 2L= 140 ug/L)	ug/L	5/30/2007	0.9	10	10	NM	ND	ND	NM	--	1.1 J	ND	--	ND	--	ND	ND	3.5 J	--	ND	--
SWID # = 168	ug/L	11/19/2007	0.94	10	10	NM	NM	ND	NM	--	NM	NM	--	NM	--	NM	NM	ND	--	NM	NM
	ug/L	5/19/2008	0.94	10	10	ND	ND	--	ND	--	ND	ND	--	ND	--	ND	ND	--	ND	ND	NM
1, 4-Naphthoquinone - (No Established Groundwater Standards) SWID # = 149	ug/L	5/19/2008	3.5	11	10	ND	ND	--	ND	--	ND	ND	--	ND	--	18	ND	--	ND	ND	NM
n-Nitrosodi-n-butylamine - (NO Established Groundwater Standards) SWID # = 162	ug/L	5/19/2008	3.5	11	10	ND	ND	--	ND	--	ND	ND	--	ND	--	3.8	3.6	--	ND	3.9	NM

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Shaded = Concentrations above the NC 2L or Solid Waste Section Groundwater Protection Standards have been shaded
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Permit No. 32-01

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	Solid Waste Section Limits	Background Well MW-9R	MW-2	MW-3	MW-3R	MW-4	MW-4R	MW-5	MW-6	MW-6R	MW-7	MW-7R	MW-8	PZ-6	Duplicate (MW-6R)	Equipment Blank	Trip Blank
Cyanide - (NC 2L = 70 ug/L)	ug/L	12/2/1994	--	--	2	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
SWID # = 58	ug/L	2/7/1995	--	--	2	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	3/13/1995	--	--	2	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	11/1/1995	--	--	2	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	6/10/1996	--	--	2	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	11/12/1996	--	--	2	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	3/18/1997	--	--	2	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/2/1997	--	--	2	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	5/26/1998	--	--	2	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	12/1/1998	--	--	2	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	6/7/1999	--	--	2	NM	2	ND	NM	--	--	ND	--	--	ND	--	ND	ND	--	--	--
	ug/L	7/8/1999	--	--	2	NM	--	--	NM	--	ND	--	3	--	--	--	--	--	--	--	--
	ug/L	12/15/1999	--	--	2	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/6/2000	--	--	2	NM	ND	ND	NM	--	ND	ND	--	--	ND	--	ND	ND	--	--	--
	ug/L	12/27/2000	--	--	2	NM	ND	ND	NM	--	ND	ND	5	--	ND	--	ND	ND	--	--	--
	ug/L	6/4/2001	--	--	2	NM	ND	ND	NM	--	ND	ND	3	--	ND	--	ND	ND	--	--	--
	ug/L	12/3/2001	--	--	2	NM	ND	ND	NM	--	ND	ND	--	--	ND	--	ND	ND	--	--	--
	ug/L	6/10/2002	--	--	2	NM	ND	ND	NM	--	ND	ND	--	--	3	--	ND	ND	--	--	--
	ug/L	12/16/2002	--	--	2	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/9/2003	--	--	2	NM	ND	5	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	12/8/2003	--	--	2	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/29/2004	--	--	2	NM	ND	ND	NM	--	ND	ND	--	ND	--	2	ND	ND	--	--	--
	ug/L	9/19/2004	--	--	2	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	12/20/2004	--	--	2	NM	ND	17	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	6/5/2005	--	--	2	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	2.6	2.3	--	--	--
	ug/L	12/5/2005	1.6	--	2	NM	4.3	3.1	NM	--	5	5.4	--	2.8	--	5.8	3.7	5	--	--	--
	ug/L	6/5/2006	--	--	2	NM	1.9 J	1.9 J	NM	--	1.8 J	2.5	--	1.6 J	--	ND	2.2	3.6	--	--	--
	ug/L	12/5/2006	--	--	2	NM	4.6	2.5	NM	--	5.1	4.9	--	ND	--	2.1	5.6	1.9 J	--	--	--
	ug/L	5/30/2007	5.8	10	10000	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	11/19/2007	1.2	5	10	NM	NM	NM	NM	--	NM	NM	--	NM	--	NM	NM	NM	--	NM	NM
	ug/L	5/19/2008	1.2	5	10	ND	ND	--	2.5	--	ND	1.3	--	ND	--	ND	ND	--	ND	ND	NM
Sulfide - (No NC 2L Std.)	ug/L	12/2/1994	--	--	--	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
SWID # = 187	ug/L	2/7/1995	--	--	--	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	3/13/1995	--	--	--	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	11/1/1995	--	--	--	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	6/10/1996	--	--	--	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	11/12/1996	--	--	--	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	3/18/1997	--	--	--	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/2/1997	--	--	--	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	5/26/1998	--	--	--	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	12/1/1998	--	--	--	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	6/7/1999	--	--	200	NM	ND	200	NM	--	--	300	--	--	200	--	200	1300	--	--	--
	ug/L	7/8/1999	--	--	--	NM	--	--	NM	--	300	--	500	--	--	--	--	--	--	--	--
	ug/L	12/15/1999	--	--	--	NM	600	1800	NM	--	900	400	600	--	200	--	200	1400	--	--	--
	ug/L	6/6/2000	--	--	100	NM	100	300	NM	--	600	500	--	--	ND	--	100	400	--	--	--
	ug/L	12/27/2000	--	--	--	NM	300	720	NM	--	290	520	880	--	350	--	260	400	--	--	--
	ug/L	6/4/2001	--	--	--	NM	400	200	NM	--	400	200	600	--	300	--	300	600	--	--	--
	ug/L	12/3/2001	--	--	400	NM	ND	ND	NM	--	ND	ND	--	--	500	--	ND	ND	--	--	--
	ug/L	6/10/2002	--	--	200	NM	ND	1000	NM	--	ND	ND	--	--	ND	--	ND	ND	--	--	--
	ug/L	12/16/2002	--	--	200	NM	300	ND	NM	--	ND	ND	ND	--	ND	--	ND	ND	--	--	--
	ug/L	6/9/2003	--	--	200	NM	ND	ND	NM	--	ND	ND	ND	--	ND	--	1600	ND	--	--	--
	ug/L	12/8/2003	--	--	2000	NM	ND	16000	NM	--	12000	ND	3800	--	ND	--	ND	2000	--	--	--
	ug/L	6/29/2004	--	--	2000	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	9/19/2004	--	--	--	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	12/20/2004	--	--	2000	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	6/5/2005	--	--	2000	NM	ND	ND	NM	--	12000	ND	--	12000	--	14000	15000	13000	--	--	--
	ug/L	12/5/2005	94	--	2000	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	--	--
	ug/L	6/5/2006	--	--	2000	NM	ND	ND	NM	--	ND	11000	--	ND	--	ND	ND	ND	--	--	--
	ug/L	12/5/2006	--	--	--	NM	16000	1800 J	NM	--	17000	14000	--	5200	--	15000	12000	16000	--	--	--
	ug/L	5/30/2007	500	1000	1000	NM	ND	ND	NM	--	ND	ND	--	ND	--	ND	ND	ND	--	ND	--
	ug/L	11/19/2007	16	50	1000	NM	NM	NM	NM	--	NM	NM	--	NM	--	NM	NM	NM	--	NM	NM
	ug/L	5/19/2008	16	50	1000	27	ND	--	36	--	ND	21	--	18	--	22	ND	--	ND	ND	NM

Notes:

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NTU = Nephelometric Turbidity Units
mV= millivolts
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ORP= Oxidation Reduction Potential
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Blanks = field, trip and method blanks
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Shaded = Concentrations above the NC 2L or Solid Waste Section Groundwater Protection Standards have been shaded
* Sample data from 9/94 through 12/98 compiled and reported by Malcolm Pirnie, Inc.
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* Sample data from11/07 collected, compiled and reported by S&ME.
* Laboratory data prior to November 2007 was not validated by S&ME. Solid Waste Section Limits = NCPQL from 9/14/94 through 12/5/06 and NCSWSL for 5/30/07 and later

Table 5
Summary of Historically Detected Constituents in Groundwater
City of Durham Closed Municipal Soild Waste Landfill
S&ME Project No. 1054-07-469
Permit No. 32-01

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	Solid Waste Section Limits	Background Well MW-9R	MW-2	MW-3	MW-3R	MW-4	MW-4R	MW-5	MW-6	MW-6R	MW-7	MW-7R	MW-8	PZ-6	Duplicate (MW-6R)	Equipment Blank	Trip Blank
Ph (field)	S.U.	5/26/1998	--	--	--	NM	6	6.2	NM	7.4	--	7.2	6.5	--	7	--	7.3	7.3	--	--	--
SWID # = 320	S.U.	12/1/1998	--	--	--	NM	5	6	NM	--	--	6.7	6.6	--	5.9	--	6.5	7.1	--	--	--
	S.U.	6/7/1999	--	--	--	NM	6.19	5.99	NM	--	--	6.7	--	--	6.45	--	5.98	6.98	--	--	--
	S.U.	7/8/1999	--	--	--	NM	--	--	NM	--	7.29	--	6.36	--	--	--	--	--	--	--	--
	S.U.	12/13/1999	--	--	--	NM	5.37	5.72	NM	--	6.96	6.88	--	--	6.68	--	5.96	7.21	--	--	--
	S.U.	6/6/2000	--	--	--	NM	5.8	6.14	NM	--	7.31	7.15	DRY	--	7.04	--	6.38	7.75	--	--	--
	S.U.	12/11/2000	--	--	--	NM	5.82	6.11	NM	--	7.14	7.36	6.47	--	6.94	--	6.36	7.92	--	--	--
	S.U.	6/4/2001	--	--	--	NM	5.65	6.21	NM	--	7.02	7.27	6.43	--	6.39	--	6.6	7.75	--	--	--
	S.U.	12/3/2001	--	--	--	NM	5.45	5.92	NM	--	7.04	7.18	6.4	--	6.27	--	6.4	7.64	--	--	--
	S.U.	6/10/2002	--	--	--	NM	5.81	5.95	NM	--	6.74	6.07	6.5	--	7.3	--	6.51	7.71	--	--	--
	S.U.	12/16/2002	--	--	--	NM	5.67	6.2	NM	--	7.27	7.6	5.83	--	7.21	--	6.24	7.84	--	--	--
	S.U.	6/9/2003	--	--	--	NM	5.44	6.08	NM	--	7.08	7.23	5.78	--	7.18	--	6.46	7.91	--	--	--
	S.U.	12/9/2003	--	--	--	NM	5.9	6.87	NM	--	7.67	--	6.76	--	8.01	--	7.07	8.71	--	--	--
	S.U.	6/24/2004	--	--	--	NM	5.78	6.12	NM	--	6.96	7.3	--	5.84	--	7.51	6.37	7.76	--	--	--
	S.U.	12/20/2004	--	--	--	NM	7.39	7.7	NM	--	7.52	7.68	--	7.71	--	7.85	7.58	7.78	--	--	--
	S.U.	6/8/2005	--	--	--	NM	5.68	6.2	NM	--	6.94	7.23	--	5.71	--	7.79	6.52	7.76	--	--	--
	S.U.	12/7/2005	--	--	--	NM	5.76	6.08	NM	--	7.13	7.16	--	5.63	--	7.74	6.09	7.73	--	--	--
	S.U.	6/5/2006	--	--	--	NM	5.93	6.13	NM	--	7.01	7.19	--	5.81	--	7.78	6.76	7.63	--	--	--
	S.U.	12/5/2006	--	--	--	NM	5.85	6.23	NM	--	7.06	6.95	--	5.65	--	7.73	6.53	7.62	--	--	--
	S.U.	5/30/2007	--	--	--	NM	6.12	7.17	NM	--	6.67	8.57	--	6.52	--	7.23	5.55	7.07	--	--	--
	S.U.	11/19/2007	--	--	--	NM	5.27	6.19	NM	--	7.51	6.99	--	5.79	--	7.3	6.92	6.21	--	--	--
	S.U.	5/19/2008	--	--	--	6.40	5.21	--	6.27	--	6.85	7.11	--	5.62	--	7.78	6.14	--	--	--	--
Conductivity (field)	µS/cm	5/26/1998	--	--	--	NM	80	1200	NM	460	--	383	518	--	338	--	348	454	--	--	--
SWID # = 323	µS/cm	12/1/1998	--	--	--	NM	59	1660	NM	--	--	388	456	--	305	--	406	394	--	--	--
	µS/cm	6/7/1999	--	--	--	NM	95.1	1511	NM	--	--	467	--	--	359	--	490	447	--	--	--
	µS/cm	7/8/1999	--	--	--	NM	--	--	NM	--	608	--	439	--	--	--	--	--	--	--	--
	µS/cm	12/13/1999	--	--	--	NM	81.4	1564	NM	--	692	487	--	--	341	--	426	246	--	--	--
	µS/cm	6/6/2000	--	--	--	NM	85.8	1626	NM	--	726	474	DRY	--	385	--	479	461	--	--	--
	µS/cm	12/11/2000	--	--	--	NM	103	1239	NM	--	463	445	559	--	367	--	460	449	--	--	--
	µS/cm	6/4/2001	--	--	--	NM	66.5	1240	NM	--	539	366	365	--	305	--	334	432	--	--	--
	µS/cm	12/3/2001	--	--	--	NM	107	1389	NM	--	534	437.1	561	--	309	--	422	432	--	--	--
	µS/cm	6/10/2002	--	--	--	NM	78	1545	NM	--	625	444	450	--	308	--	430	425	--	--	--
	µS/cm	12/16/2002	--	--	--	NM	84	1601	NM	--	668	529	344	--	343	--	242	460	--	--	--
	µS/cm	6/9/2003	--	--	--	NM	78	1713	NM	--	652	543	267	--	322	--	386	286	--	--	--
	µS/cm	12/8/2003	--	--	--	NM	103	1442	NM	--	645	--	220	--	325	--	401	390	--	--	--
	µS/cm	6/28/2004	--	--	--	NM	92	1642	NM	--	630	471	--	467	--	340	379	449	--	--	--
	µS/cm	12/20/2004	--	--	--	NM	87	1660	NM	--	689	583	--	553	--	431	440	489	--	--	--
	µS/cm	6/8/2005	--	--	--	NM	768	1343	NM	--	575	467	--	443	--	349	386	429	--	--	--
	µS/cm	12/8/2005	--	--	--	NM	171	1712	NM	--	708	623	--	590	--	450	388	408	--	--	--
	µS/cm	6/5/2006	--	--	--	NM	66	1397	NM	--	604	535	--	488	--	348	237	469	--	--	--
	µS/cm	12/5/2006	--	--	--	NM	76	1998	NM	--	731	724	--	665	--	437	269	545	--	--	--
	µS/cm	5/30/2006	--	--	--	NM	67	192	NM	--	720	748	--	621	--	427	302	503	--	--	--
	µS/cm	11/19/2007	--	--	--	NM	163	1800	NM	--	587	639	--	518	--	431	402	240	--	--	--
	µS/cm	5/19/2008	--	--	--	50	70	--	1650	--	770	770	--	700	--	445	146	--	--	--	--
Temperature (field)	°C	5/26/1998	--	--	--	NM	14.6	14.4	NM	14.3	--	15.3	16		14.8	--	15.2	15.9	--	--	--
SWID # = 325	°C	12/1/1998	--	--	--	NM	16	15	NM	--	--	16.5	15.7	--	12	--	16.8	17.3	--	--	--
	°C	6/7/1999	--	--	--	NM	15.1	15.8	NM	--	--	15.3	--	--	16.8	--	16.2	18	--	--	--
	°C	7/8/1999	--	--	--	NM	--	--	NM	--	17.3	--	16.2	--	--	--	--	--	--	--	--
	°C	12/13/1999	--	--	--	NM	13.7	17.9	NM	--	16.1	17.5	--	--	11.5	--	16.3	15.1	--	--	--
	°C	6/6/2000	--	--	--	NM	17.4	14.8	NM	--	16.2	15.4	DRY	--	15	--	16.5	15.4	--	--	--
	°C	12/11/2000	--	--	--	NM	14.2	15.3	NM	--	12.6	16	14.4	--	14.8	--	14.2	13.8	--	--	--
	°C	6/4/2001	--	--	--	NM	15.1	14.3	NM	--	13.6	14.7	14.7	--	14.7	--	15.7	16.8	--	--	--
	°C	12/3/2001	--	--	--	NM	14.4	15.7	NM	--	15.8	19.4	15.3	--	15.1	--	15.7	15.1	--	--	--
	°C	6/10/2002	--	--	--	NM	19	14.8	NM	--	15.8	15.2	17	--	16.4	--	16.3	18.2	--	--	--
	°C	12/16/2002	--	--	--	NM	12.6	14.9	NM	--	14.1	15.9	14	--	11.3	--	14.1	14.6	--	--	--
	°C	6/9/2003	--	--	--	NM	15.6	15.1	NM	--	16.4	14.8	16.3	--	14.4	--	16.6	21.9	--	--	--
	°C	12/8/2003	--	--	--	NM	14.8	15.9	NM	--	14	--	15.4	--	16.1	--	14.6	15	--	--	--
	°C	6/28/2004	--	--	--	NM	17	14.8	NM	--	16.3	15.3	--	14.65	--	14.4	16.8	17.5	--	--	--
	°C	12/20/2004	--	--	--	NM	12.57	15.3	NM	--	13.48	14.59	--	15.72	--	14.62	13.92	13.08	--	--	--
	°C	6/8/2005	--	--	--	NM	16.62	14.95	NM	--	18.58	15.6	--	14.5	--	15.08	15.69	17.14	--	--	--
	°C	12/8/2005	--	--	--	NM	14.4	15.1	NM	--	13.36	15.05	--	15.86	--	14.51	14.53	14.07	--	--	--
	°C	6/5/2006	--	--	--	NM	15.44	14.91	NM	--	15.18	17.5	--	14.43	--	14.58	15.63	16.24	--	--	--
	°C	12/5/2006	--	--	--	NM	14.12	15.46	NM	--	14.91	16.21	--	16.1	--	14.04	14.15	14.01	--	--	--
	°C	5/30/2006	--	--	--	NM	16.1	15.41	NM	--	20.39	20.52	--	16.53	--	17.11	19.31	17.81	--	--	--
	°C	11/19/2007	--	--	--	NM	16.44	16.29	NM	--	16.48	18.07	--	16.6	--	15.13	17.12	14.54	--	--	--
	°C	5/19/2008	--	--	--	16.2	14.41	--	14.2	--	14.7	14.46	--	14.41	--	14.9	14.7	--	--	--	--

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Turbidity (field)	NTU	5/26/1998	--	--	--	NM	66.2	479	NM	46.1	--	118	29.2	--	143	--	73.9	>1000	--	--	--
SWID # = 330	NTU	12/1/1998	--	--	--	NM	34	>1000	NM	--	--	201	12.1	--	105	--	14.7	585	--	--	--
	NTU	6/7/1999	--	--	--	NM	--	very turbid	NM	--	--	125	--	--	70.8	--	172	very turbid	--	--	--
	NTU	7/8/1999	--	--	--	NM	--	--	NM	--	turbid	--	--	--	--	--	--	--	--	--	--
	NTU	12/13/1999	--	--	--	NM	52.6	1278	NM	--	265	107	--	--	122.4	--	127.1	--	--	--	--
	NTU	6/6/2000	--	--	--	NM	5.74	365	NM	--	48.2	686	dry	--	230	--	75	105	--	--	--
	NTU	12/11/2000	--	--	--	NM	>200	>200	NM	--	51.3	>200	>200	--	--	--	161	>200	--	--	--
	NTU	6/4/2001	--	--	--	NM	23.6	>1000	NM	--	35	>1000	130	--	36.7	--	130	>1000	--	--	--
	NTU	12/3/2001	--	--	--	NM	14	>999	NM	--	11	>999	>999	--	130	--	65	>999	--	--	--
	NTU	6/10/2002	--	--	--	NM	6.61	500	NM	--	20	--	--	--	--	--	190	600	--	--	--
	NTU	12/16/2002	--	--	--	NM	12	406	NM	--	245	130	200	--	130	--	1000	>1100	--	--	--
	NTU	6/9/2003	--	--	--	NM	128	510	NM	--	45	75	69.5	--	230	--	275	106	--	--	--
	NTU	12/9/2003	--	--	--	NM	110	400	NM	--	15	--	990	--	>990	--	280	>990	--	--	--
	NTU	6/4/2004	--	--	--	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	NTU	12/20/2004	--	--	--	NM	48	68.4	NM	--	3.5	372	--	472	--	--	32.9	79.8	--	--	--
	NTU	6/8/2005	--	--	--	NM	5	67	NM	--	8.9	611	--	140	--	275	9.1	887	--	--	--
	NTU	12/7/2005	--	--	--	NM	63	983	NM	--	1	>1000	--	40	--	11	15	20	--	--	--
	NTU	6/5/2006	--	--	--	NM	70.4	102	NM	--	5.3	>1000	--	383	--	133	100	254	--	--	--
	NTU	12/5/2006	--	--	--	NM	15.8	58	NM	--	2.8	597	--	64.54	--	45	25	280	--	--	--
	NTU	5/30/2007	--	--	--	NM	0	1.8	NM	--	0	0	--	0	--	>1000	61.8	436	--	--	--
	NTU	11/19/2007	--	--	--	NM	52	76	NM	--	9.3	259	--	85.4	--	233	121.4	NM	--	--	--
	NTU	5/19/2008	--	--	--	21.5	5.6	--	60.4	--	3.1	6.9	--	15.9	--	3	8.4	--	--	--	--
ORP (field)	mV	5/30/2007	--	--	--	NM	228	-43	NM	--	95	--	--	82	--	193	156	178	--	--	--
SWID # = 336	mV	11/19/2007	--	--	--	NM	218	7	NM	--	--	-82	--	--	--	-103	NM	--	--	--	--
	mV	5/19/2008	--	--	--	291	225.1	--	40	--	151	-75.2	--	170.1	--	-45	49	--	--	--	--
Dissolved Oxygen (field)	mg/L	12/1/2001	--	--	--	NM	4.00	2.05	NM	--	3.90	3.50	2.80	--	5.30	--	2.25	4.70	--	--	--
SWID # = 356	mg/L	6/10/2002	--	--	--	NM	9.08	18.58	NM	--	7.00	16.85	4.03	--	4.86	--	5.69	5.28	--	--	--
	mg/L	12/16/2002	--	--	--	NM	7.92	12.38	NM	--	5.99	10.20	8.67	--	6.72	--	3.30	5.50	--	--	--
	mg/L	6/9/2003	--	--	--	NM	9.58	3.02	NM	--	4.63	2.65	9.92	--	5.25	--	3.69	7.65	--	--	--
	mg/L	12/8/2003	--	--	--	NM	5.00	3.60	NM	--	7.90	--	3.60	--	2.10	--	4.30	5.90	--	--	--
	mg/L	6/24/2004	--	--	--	NM	8.44	2.84	NM	--	5.37	2.96	--	5.69	--	5.23	6.20	6.50	--	--	--
	mg/L	12/20/2004	--	--	--	NM	7.52	3.29	NM	--	3.65	3.61	--	4.69	--	4.60	4.63	6.21	--	--	--
	mg/L	6/8/2005	--	--	--	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--
	mg/L	6/5/2006	--	--	--	NM	4.48	4.19	NM	--	4.31	3.48	--	2.77	--	2.19	2.69	4.00	--	--	--
	mg/L	12/5/2006	--	--	--	NM	7.19	3.32	NM	--	2.83	20.00	--	4.06	--	2.40	3.91	3.81	--	--	--
	mg/L	5/30/2007	--	--	--	NM	2.60	5.70	NM	--	4.60	--	--	7.40	--	5.60	2.80	2.10	--	--	--
	mg/L	11/19/2007	--	--	--	NM	2.72	0.15	NM	--	1.57	0.24	--	0.19	--	0.12	1.18	--	--	--	--
	mg/L	5/19/2008	--	--	--	NM	NM	--	NM	--	NM	NM	--	NM	--	NM	NM	--	--	--	--

Notes:
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NTU = Nephelometric Turbidity Units
mV= millivolts
ND = Not detected at the stated reporting limit
ORP= Oxidation Reduction Potential
µS/cm= micro Siemens per centimeter
-- = no data available
Blanks = field, trip and method blanks
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Shaded = Concentrations above the NC 2L or Solid Waste Section Groundwater Protection Standards have been shaded
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S&ME Project No. 1054-07-469
Permit No. 32-01

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Antimony - (No SW Standard)	ug/L	12/20/2004			5	ND	ND	ND	ND
SWID # = 13	ug/L	6/5/2005			5	ND	ND	5	ND
	ug/L	12/7/2005			5	ND	ND	ND	ND
	ug/L	6/5/2006			5	ND	ND	DRY	ND
	ug/L	12/5/2006			5	ND	ND	ND	ND
	ug/L	5/30/2007	0.58	2	6	ND	DRY	DRY	ND
	ug/L	11/30/2007	0.22	1	6	0.94	DRY	DRY	0.97
	ug/L	5/19/2008	0.22	1	6	0.40	ND	0.24	0.36
Arsenic - (SW Standard = 10 ug/L)	ug/L	5/30/2007	2	10	10	ND	DRY	DRY	ND
SWID # = 14	ug/L	11/30/2007	0.15	1	10	1.5	DRY	DRY	1.7
	ug/L	5/19/2008	0.15	1	10	<0.15	ND	1.2	<0.15
Barium - (SW Standard = 1000 ug/L)	ug/L	2/7/1995	--	--	--	27	69	82	39
SWID # = 15	ug/L	3/13/1995	--	--	25	51	61	59	ND
	ug/L	6/10/1996	--	--	25	42	86	75	ND
	ug/L	11/12/1996	--	--	25	32	37	59	ND
	ug/L	3/18/1997	--	--	--	44	126	41	27
	ug/L	10/2/1997	--	--	25	92	162	62	ND
	ug/L	5/26/1998	--	--	--	35	94	72	106
	ug/L	12/1/1998	--	--	--	47	DRY	DRY	25
	ug/L	6/7/1999	--	--	25	ND	DRY	DRY	ND
	ug/L	12/1/1999	--	--	--	54	174	85	96
	ug/L	6/6/2000	--	--	--	73	DRY	DRY	DRY
	ug/L	12/22/2000	--	--	--	66	DRY	DRY	DRY
	ug/L	6/4/2001	--	--	25	ND	97	80	ND
	ug/L	12/3/2001	--	--	25	ND	DRY	DRY	ND
	ug/L	6/10/2002	--	--	25	ND	DRY	DRY	ND
	ug/L	12/16/2002	--	--	--	76	58	64	29
	ug/L	6/10/2003	--	--	25	ND	111	93	28
	ug/L	12/8/2003	--	--	25	14	59	62	ND
	ug/L	6/29/2004	--	--	25	ND	83	49	ND
	ug/L	12/20/2004	--	--	25	ND	42	71	ND
	ug/L	6/5/2005	--	--	25	ND	73	6	28
	ug/L	12/7/2005	--	--	--	39	59	52	46
	ug/L	6/5/2006	--	--	25	ND	126	DRY	ND
	ug/L	12/5/2006	--	--	--	28	106	79	25
	ug/L	5/30/2007	0.2	10	100	8.1 J	DRY	DRY	7.6 J
	ug/L	11/30/2007	1	5	100	3.2	DRY	DRY	9.1
	ug/L	5/19/2008	1	5	100	17	64	66	18
Beryllium - (SW Standard = 6.5 ug/L)	ug/L	11/30/2007	0.24	1	1	0.4	DRY	DRY	0.43
SWID # = 23	ug/L	5/19/2008	0.24	1	1	<0.24	<0.24	0.34	<0.24
Chromium - (SW Standard = 50 ug/L)	ug/L	2/7/1995	--	--	5	ND	ND	ND	ND
SWID # = 51	ug/L	3/13/1995	--	--	5	ND	ND	ND	ND
	ug/L	6/10/1996	--	--	5	ND	ND	ND	ND
	ug/L	11/12/1996	--	--	5	ND	ND	ND	ND
	ug/L	3/18/1997	--	--	5	ND	ND	ND	ND
	ug/L	10/2/1997	--	--	5	ND	5.9	ND	ND
	ug/L	5/26/1998	--	--	5	ND	5	ND	ND
	ug/L	12/1/1998	--	--	5	ND	DRY	DRY	ND
	ug/L	6/7/1999	--	--	5	ND	DRY	DRY	ND
	ug/L	12/1/1999	--	--	--	7	16	8	8
	ug/L	6/6/2000	--	--	5	ND	DRY	DRY	DRY
	ug/L	12/22/2000	--	--	5	ND	DRY	DRY	DRY
	ug/L	6/4/2001	--	--	5	ND	ND	ND	ND
	ug/L	12/3/2001	--	--	5	ND	DRY	DRY	ND
	ug/L	6/10/2002	--	--	5	ND	DRY	DRY	ND
	ug/L	12/16/2002	--	--	5	ND	ND	ND	ND
	ug/L	6/10/2003	--	--	5	ND	5	ND	ND
	ug/L	12/8/2003	--	--	5	ND	5	ND	ND
	ug/L	6/29/2004	--	--	5	ND	ND	ND	ND
	ug/L	12/20/2004	--	--	5	5	ND	ND	ND
	ug/L	6/5/2005	--	--	5	ND	ND	ND	5
	ug/L	12/7/2005	--	--	5	5	ND	ND	9
	ug/L	6/5/2006	--	--	5	ND	ND	DRY	ND
	ug/L	12/5/2006	--	--	5	ND	ND	ND	ND
	ug/L	5/30/2007	2	10	10	ND	DRY	DRY	ND
	ug/L	11/30/2007	2.3	10	10	<2.3	DRY	DRY	ND
	ug/L	5/19/2008	2.3	10	10	<2.3	<2.3	<2.3	<2.3

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Shaded = Concentrations above the applicable Surface Water Standards have been shaded.
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SWS Reporting Limit = NCPQL from 9/14/94 through 12/5/06 and NCSWSL for 5/30/07 and Later.
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Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	Solid Waste Section Limits	S-4 (Upstream)	S-1	S-2	S-3
Copper - (SW Standard = 7 ug/L**)	ug/L	2/7/1995	--	--	5	ND	ND	ND	ND
SWID # = 54	ug/L	3/13/1995	--	--	5	5.5	6.8	8.6	ND
	ug/L	6/10/1996	--	--	5	6.3	5.9	5.7	ND
	ug/L	11/12/1996	--	--	5	ND	ND	ND	ND
	ug/L	3/18/1997	--	--	5	6	ND	ND	6
	ug/L	10/2/1997	--	--	5	ND	ND	ND	ND
	ug/L	5/26/1998	--	--	--	6	8	6	9
	ug/L	12/1/1998	--	--	5	ND	DRY	DRY	ND
	ug/L	6/7/1999	--	--	5	ND	DRY	DRY	ND
	ug/L	12/1/1999	--	--	--	10	14	10	11
	ug/L	6/6/2000	--	--	5	ND	DRY	DRY	DRY
	ug/L	12/22/2000	--	--	5	ND	DRY	DRY	DRY
	ug/L	6/4/2001	--	--	5	13	ND	8	ND
	ug/L	12/3/2001	--	--	5	ND	DRY	DRY	ND
	ug/L	6/10/2002	--	--	5	ND	DRY	DRY	ND
	ug/L	12/16/2002	--	--	5	21	8	10	8
	ug/L	6/10/2003	--	--	5	ND	8	6	ND
	ug/L	12/8/2003	--	--	5	ND	5	6	5
	ug/L	6/29/2004	--	--	5	ND	8	ND	ND
	ug/L	12/20/2004	--	--	5	ND	ND	ND	ND
	ug/L	6/5/2005	--	--	--	3	5	5	2
	ug/L	12/7/2005	--	--	--	9	7	10	11
	ug/L	6/5/2006	--	--	--	3	9	DRY	3
	ug/L	12/5/2006	--	--	--	2	3	6	3
	ug/L	5/30/2007	0.6	10	10	1.3 B	DRY	DRY	0.8 B
	ug/L	11/30/2007	0.45	1	10	1.3	DRY	DRY	2.1
	ug/L	5/19/2008	0.45	1	10	4	6	10	3.8
Lead - (SW Standard = 25 ug/L)	ug/L	2/7/1995	--	--	5	11	ND	6.2	ND
SWID # = 131	ug/L	3/13/1995	--	--	5	ND	ND	7.5	ND
	ug/L	6/10/1996	--	--	5	ND	ND	ND	ND
	ug/L	11/12/1996	--	--	5	ND	ND	ND	ND
	ug/L	3/18/1997	--	--	5	5	ND	ND	5
	ug/L	10/2/1997	--	--	5	ND	ND	ND	ND
	ug/L	5/26/1998	--	--	5	ND	ND	ND	ND
	ug/L	12/1/1998	--	--	--	5	DRY	DRY	5
	ug/L	6/7/1999	--	--	5	ND	DRY	DRY	ND
	ug/L	12/1/1999	--	--	5	17	5	5	7
	ug/L	6/6/2000	--	--	5	ND	DRY	DRY	DRY
	ug/L	12/22/2000	--	--	5	ND	DRY	DRY	DRY
	ug/L	6/4/2001	--	--	5	ND	9	ND	ND
	ug/L	12/3/2001	--	--	5	ND	DRY	DRY	ND
	ug/L	6/10/2002	--	--	5	ND	DRY	DRY	ND
	ug/L	12/16/2002	--	--	5	ND	ND	ND	ND
	ug/L	6/10/2003	--	--	5	9	ND	6	ND
	ug/L	12/8/2003	--	--	5	ND	ND	ND	ND
	ug/L	6/29/2004	--	--	5	ND	ND	ND	ND
	ug/L	12/20/2004	--	--	5	ND	ND	ND	ND
	ug/L	6/5/2005	--	--	5	9	ND	6	ND
	ug/L	12/7/2005	--	--	5	10	ND	ND	10
	ug/L	6/5/2006	--	--	5	ND	ND	DRY	ND
	ug/L	12/5/2006	--	--	5	ND	ND	ND	ND
	ug/L	5/30/2007	2	10	10	ND	DRY	DRY	ND
	ug/L	11/30/2007	2.4	5	5	<2.4	DRY	DRY	<2.4
	ug/L	5/19/2008	2.4	5	5	<2.4	<2.4	4.1	<2.4
Nickel - (SW Standard = 25 ug/L)	ug/L	2/7/1995	--	--	10	ND	ND	ND	ND
SWID # = 152	ug/L	3/13/1995	--	--	10	ND	13	16	ND
	ug/L	6/10/1996	--	--	10	ND	ND	ND	ND
	ug/L	11/12/1996	--	--	10	ND	ND	ND	ND
	ug/L	3/18/1997	--	--	10	ND	ND	ND	ND
	ug/L	10/2/1997	--	--	10	ND	ND	ND	ND
	ug/L	5/26/1998	--	--	10	ND	ND	ND	ND
	ug/L	12/1/1998	--	--	10	ND	DRY	DRY	ND
	ug/L	6/7/1999	--	--	10	ND	DRY	DRY	ND
	ug/L	12/1/1999	--	--	--	10	12	10	10
	ug/L	6/6/2000	--	--	10	ND	DRY	DRY	DRY
	ug/L	12/22/2000	--	--	10	ND	DRY	DRY	DRY
	ug/L	6/4/2001	--	--	10	ND	ND	ND	ND
	ug/L	12/3/2001	--	--	10	ND	DRY	DRY	ND
	ug/L	6/10/2002	--	--	10	ND	DRY	DRY	ND
	ug/L	12/16/2002	--	--	10	ND	ND	ND	ND
	ug/L	6/10/2003	--	--	10	ND	ND	ND	ND
	ug/L	12/8/2003	--	--	10	ND	ND	ND	ND
	ug/L	6/29/2004	--	--	10	ND	ND	ND	ND
	ug/L	12/20/2004	--	--	10	ND	ND	ND	ND
	ug/L	6/5/2005	--	--	10	ND	ND	ND	ND
	ug/L	12/7/2005	--	--	10	ND	ND	ND	ND
	ug/L	6/5/2006	--	--	10	ND	ND	ND	ND
	ug/L	12/5/2006	--	--	10	ND	ND	ND	ND
	ug/L	5/30/2007	2	10	50	2.7 J	DRY	DRY	2.7 J
	ug/L	11/30/2007	9.8	20	50	<9.8	DRY	DRY	<9.8
	ug/L	5/19/2008	9.8	20	50	<9.8	<9.8	<9.8	<9.8
Selenium - (SW Standard = 5 ug/L)	ug/L	5/30/2007	2	10	10	2.9 B	DRY	DRY	2.3 B
SWID # = 183	ug/L	11/30/2007	0.43	1	10	2.6	DRY	DRY	<0.43
	ug/L	5/19/2008	0.43	1	10	<0.43	<0.43	<0.43	<0.43

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Silver - (SW Standard = 0.06 ug/L**)	ug/L	2/7/1995	--	--	1	ND	ND	ND	ND
SWID # = 184	ug/L	3/13/1995	--	--	1	ND	ND	ND	ND
	ug/L	6/10/1996	--	--	1	ND	1.8	3.3	ND
	ug/L	11/12/1996	--	--	1	ND	ND	ND	ND
	ug/L	3/18/1997	--	--	1	ND	ND	ND	ND
	ug/L	10/2/1997	--	--	1	ND	ND	ND	ND
	ug/L	5/26/1998	--	--	1	ND	ND	ND	ND
	ug/L	12/1/1998	--	--	1	ND	DRY	DRY	ND
	ug/L	6/7/1999	--	--	1	ND	DRY	DRY	ND
	ug/L	12/1/1999	--	--	--	1	1	1	1
	ug/L	6/6/2000	--	--	1	ND	DRY	DRY	DRY
	ug/L	12/22/2000	--	--	1	ND	DRY	DRY	DRY
	ug/L	6/4/2001	--	--	1	ND	ND	ND	ND
	ug/L	12/3/2001	--	--	1	ND	DRY	DRY	ND
	ug/L	6/10/2002	--	--	1	ND	DRY	DRY	ND
	ug/L	12/16/2002	--	--	1	ND	ND	ND	ND
	ug/L	6/10/2003	--	--	1	ND	ND	ND	ND
	ug/L	12/8/2003	--	--	1	ND	ND	ND	ND
	ug/L	6/29/2004	--	--	1	ND	ND	ND	ND
	ug/L	12/20/2004	--	--	1	ND	ND	ND	ND
	ug/L	6/5/2005	--	--	1	ND	ND	ND	ND
	ug/L	12/7/2005	--	--	1	ND	ND	ND	ND
	ug/L	6/5/2006	--	--	1	ND	ND	ND	ND
	ug/L	12/5/2006	--	--	1	ND	ND	ND	ND
	ug/L	5/30/2007	2	10	10	ND	DRY	DRY	ND
	ug/L	11/30/2007	2.5	10	10	2.7	DRY	DRY	2.7
	ug/L	5/19/2008	2.5	10	10	<2.5	<2.5	<2.5	<2.5
Thallium - (No SW Standard)	ug/L	11/30/2007	0.09	1	5.5	0.61	DRY	DRY	0.62
SWID # = 194	ug/L	5/19/2008	0.09	1	5.5	<0.09	<0.09	<0.09	<0.09
Vanadium - (No SW Standard)	ug/L	2/7/1995	--	--	5	ND	ND	ND	ND
SWID # = 209	ug/L	3/13/1995	--	--	5	ND	ND	ND	ND
	ug/L	6/10/1996	--	--	5	ND	ND	7.7	ND
	ug/L	11/12/1996	--	--	5	ND	8	ND	ND
	ug/L	3/18/1997	--	--	5	ND	ND	ND	ND
	ug/L	10/2/1997	--	--	5	ND	8.5	ND	5.7
	ug/L	5/26/1998	--	--	5	ND	5	5	5
	ug/L	12/1/1998	--	--	5	ND	DRY	DRY	5
	ug/L	6/7/1999	--	--	5	ND	DRY	DRY	ND
	ug/L	12/1/1999	--	--	--	11	22	10	11
	ug/L	6/6/2000	--	--	--	5	DRY	DRY	DRY
	ug/L	12/22/2000	--	--	--	5	DRY	DRY	DRY
	ug/L	6/4/2001	--	--	5	ND	ND	5	ND
	ug/L	12/3/2001	--	--	--	6	DRY	DRY	6
	ug/L	6/10/2002	--	--	--	6	DRY	DRY	6
	ug/L	12/16/2002	--	--	5	7	ND	ND	ND
	ug/L	6/10/2003	--	--	5	ND	7	5	ND
	ug/L	12/8/2003	--	--	5	ND	ND	ND	ND
	ug/L	6/29/2004	--	--	5	ND	ND	ND	ND
	ug/L	12/20/2004	--	--	5	ND	ND	ND	ND
	ug/L	6/5/2005	--	--	5	5	ND	ND	ND
	ug/L	12/7/2005	--	--	5	7	ND	ND	6
	ug/L	6/5/2006	--	--	5	ND	ND	DRY	ND
	ug/L	12/5/2006	--	--	5	ND	ND	ND	ND
	ug/L	5/30/2007	1	10	25	ND	DRY	DRY	1.2 J
	ug/L	11/30/2007	2.9	10	25	<2.9	DRY	DRY	<2.9
	ug/L	5/19/2008	2.9	10	25	<2.9	<2.9	3.1	<2.9
Zinc - (SW Standard = 50 ug/L**)	ug/L	2/7/1995	--	--	10	33	ND	ND	21
SWID # = 213	ug/L	3/13/1995	--	--	--	34	63	87	67
	ug/L	6/10/1996	--	--	10	ND	ND	ND	13
	ug/L	11/12/1996	--	--	10	20	ND	16	22
	ug/L	3/18/1997	--	--	10	32	ND	ND	32
	ug/L	10/2/1997	--	--	10	10	14	21	146
	ug/L	5/26/1998	--	--	--	25	26	19	48
	ug/L	12/1/1998	--	--	10	ND	DRY	DRY	56
	ug/L	6/7/1999	--	--	--	76	DRY	DRY	42
	ug/L	12/1/1999	--	--	--	89	58	45	66
	ug/L	6/6/2000	--	--	--	10	DRY	DRY	DRY
	ug/L	12/22/2000	--	--	10	ND	DRY	DRY	DRY
	ug/L	6/4/2001	--	--	--	39	14	16	28
	ug/L	12/3/2001	--	--	--	42	DRY	DRY	80
	ug/L	6/10/2002	--	--	--	25	DRY	DRY	36
	ug/L	12/16/2002	--	--	--	106	18	16	39
	ug/L	6/10/2003	--	--	--	18	22	15	19
	ug/L	12/8/2003	--	--	10	106	11	ND	42
	ug/L	6/29/2004	--	--	10	21	ND	ND	19
	ug/L	12/20/2004	--	--	10	31	ND	ND	30
	ug/L	6/5/2005	--	--	10	33	ND	ND	30
	ug/L	12/7/2005	--	--	--	38	10	16	33
	ug/L	6/5/2006	--	--	--	21	17	DRY	17
	ug/L	12/5/2006	--	--	10	38	ND	11	41
	ug/L	5/30/2007	1	10	10	51.9	DRY	DRY	52.5
	ug/L	11/30/2007	3	10	10	73	DRY	DRY	62
	ug/L	5/19/2008	3	10	10	48	10	38	47
Acetone - (No SW Standard)	ug/L	5/30/2007	0.9	5	100	ND	DRY	DRY	5.4 B
SWID # = 3	ug/L	11/30/2007	8.9	50	100	<8.9	DRY	DRY	<8.9
	ug/L	5/19/2008	8.9	50	100	<8.9	<8.9	<8.9	<8.9

Notes:
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ORP= Oxidation Reduction Potential
µS/cm= microsiemens per centimeter
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S&ME Project No. 1054-07-469
Permit No. 32-01

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Chloroform - (No SW Standard)	ug/L	9/19/1994	--	--	--	ND	DRY	DRY	ND
SWID # = 16	ug/L	2/7/1995	--	--	5	ND	ND	ND	ND
	ug/L	3/13/1995	--	--	5	ND	ND	ND	ND
	ug/L	6/10/1996	--	--	1	ND	ND	ND	ND
	ug/L	11/12/1996	--	--	1	ND	ND	ND	ND
	ug/L	3/18/1997	--	--	1	ND	ND	ND	ND
	ug/L	10/2/1997	--	--	1	ND	ND	ND	ND
	ug/L	5/26/1998	--	--	5	ND	DRY	DRY	ND
	ug/L	12/1/1998	--	--	2	ND	ND	ND	ND
	ug/L	6/7/1999	--	--	5	ND	DRY	DRY	DRY
	ug/L	12/1/1999	--	--	5	ND	DRY	DRY	DRY
	ug/L	6/6/2000	--	--	5	ND	ND	ND	ND
	ug/L	12/22/2000	--	--	5	ND	DRY	DRY	ND
	ug/L	6/4/2001	--	--	5	ND	DRY	DRY	ND
	ug/L	12/3/2001	--	--	5	ND	ND	ND	ND
	ug/L	6/10/2002	--	--	5	ND	ND	ND	ND
	ug/L	12/16/2002	--	--	5	ND	ND	ND	ND
	ug/L	6/10/2003	--	--	5	ND	ND	ND	ND
	ug/L	12/8/2003	--	--	5	ND	ND	ND	ND
	ug/L	6/29/2004	--	--	5	ND	ND	ND	ND
	ug/L	12/20/2004	--	--	1	ND	ND	ND	ND
	ug/L	6/5/2005	--	--	1	ND	ND	ND	ND
	ug/L	12/7/2005	0.35	--	1	ND	ND	ND	ND
	ug/L	6/5/2006	--	--	1	0.65 J	ND	ND	0.59 J
	ug/L	12/5/2006	--	--	1	ND	ND	ND	ND
	ug/L	5/30/2007	0.16	1	5	0.60 J	DRY	DRY	0.55 J
	ug/L	11/30/2007	0.33	5	5	0.6	DRY	DRY	0.42
	ug/L	5/19/2008	0.33	5	5	0.66	<0.33	<0.33	0.58
Methylene Chloride - (No SW Standard)	ug/L	9/19/1994	--	--	--	ND	DRY	DRY	9.5
SWID # = 140	ug/L	2/7/1995	--	--	5	ND	ND	ND	ND
	ug/L	3/13/1995	--	--	5	ND	ND	ND	ND
	ug/L	6/10/1996	--	--	5	ND	ND	ND	ND
	ug/L	11/12/1996	--	--	5	ND	ND	ND	ND
	ug/L	3/18/1997	--	--	5	ND	ND	ND	ND
	ug/L	10/2/1997	--	--	5	10	ND	ND	ND
	ug/L	5/26/1998	--	--	5	ND	ND	ND	ND
	ug/L	12/1/1998	--	--	5	ND	ND	ND	ND
	ug/L	6/1/1999	--	--	5	ND	DRY	DRY	ND
	ug/L	12/15/1999	--	--	5	ND	ND	ND	ND
	ug/L	6/6/2000	--	--	5	ND	DRY	DRY	DRY
	ug/L	12/22/2000	--	--	5	ND	DRY	DRY	DRY
	ug/L	6/4/2001	--	--	5	ND	ND	ND	ND
	ug/L	12/3/2001	--	--	5	ND	DRY	DRY	ND
	ug/L	6/10/2002	--	--	5	ND	DRY	DRY	ND
	ug/L	12/16/2002	--	--	5	ND	ND	ND	ND
	ug/L	6/9/2003	--	--	5	ND	ND	ND	ND
	ug/L	12/8/2003	--	--	5	ND	ND	ND	ND
	ug/L	6/28/2004	--	--	5	ND	ND	ND	ND
	ug/L	12/20/2004	--	--	2	ND	ND	ND	ND
	ug/L	6/5/2005	--	--	2	ND	ND	ND	ND
	ug/L	12/7/2005	0.61	--	2	ND	ND	ND	ND
	ug/L	6/5/2006	--	--	2	ND	ND	ND	ND
	ug/L	12/5/2006	--	--	2	ND	ND	ND	ND
	ug/L	5/30/2007	0.088	1	1	ND	DRY	DRY	ND
	ug/L	11/30/2007	0.3	5	1	<0.30	DRY	DRY	<0.30
	ug/L	5/19/2008	0.3	5	1	<0.30	<0.30	<0.30	<0.30
Toluene - (SW Standard = 11 ug/L)	ug/L	9/19/1994	--	--	--	ND	ND	ND	ND
SWID # = 196	ug/L	2/7/1995	--	--	5	ND	ND	ND	ND
	ug/L	3/13/1995	--	--	5	ND	ND	ND	ND
	ug/L	6/10/1996	--	--	--	1.0 B	1.1 B	1.4 B	1.1 B
	ug/L	11/12/1996	--	--	1	ND	1	ND	1.7
	ug/L	3/18/1997	--	--	1	ND	ND	ND	ND
	ug/L	10/2/1997	--	--	1	ND	ND	ND	ND
	ug/L	5/26/1998	--	--	1	ND	ND	ND	ND
	ug/L	12/1/1998	--	--	1	ND	ND	ND	ND
	ug/L	6/7/1999	--	--	5	ND	DRY	DRY	ND
	ug/L	12/15/1999	--	--	5	ND	ND	ND	ND
	ug/L	6/6/2000	--	--	5	ND	ND	ND	ND
	ug/L	12/22/2000	--	--	5	ND	DRY	DRY	DRY
	ug/L	6/4/2001	--	--	5	ND	DRY	DRY	DRY
	ug/L	12/3/2001	--	--	5	ND	ND	ND	ND
	ug/L	6/10/2002	--	--	5	ND	DRY	DRY	ND
	ug/L	12/16/2002	--	--	5	ND	DRY	DRY	ND
	ug/L	6/9/2003	--	--	5	ND	ND	ND	ND
	ug/L	12/8/2003	--	--	5	ND	ND	ND	ND
	ug/L	6/28/2004	--	--	5	ND	ND	ND	ND
	ug/L	12/20/2004	--	--	1	ND	ND	ND	ND
	ug/L	6/5/2005	--	--	--	ND	ND	ND	ND
	ug/L	12/7/2005	0.39	--	1	ND	ND	ND	ND
	ug/L	6/5/2006	--	--	1	ND	ND	ND	ND
	ug/L	12/5/2006	--	--	1	ND	ND	ND	ND
	ug/L	5/30/2007	0.15	1	1	ND	DRY	DRY	ND
	ug/L	11/30/2007	0.27	5	1	<.27	DRY	DRY	<.27
	ug/L	5/19/2008	0.27	5	1	<.27	<.27	<.27	<.27

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Cyanide - (SW Standard = 5 ug/L)	ug/L	12/1/1998	--	--	10	ND	DRY	DRY	ND
SWID # = 58	ug/L	6/7/1999	--	--	2	2	DRY	DRY	ND
	ug/L	12/1/1999	--	--	--	5	2	2	2
	ug/L	6/6/2000	--	--	2	ND	DRY	DRY	DRY
	ug/L	12/22/2000	--	--	2	ND	DRY	DRY	DRY
	ug/L	6/4/2001	--	--	2	ND	2	ND	ND
	ug/L	12/3/2001	--	--	2	ND	DRY	DRY	ND
	ug/L	6/10/2002	--	--	2	3	DRY	DRY	ND
	ug/L	12/16/2002	--	--	2	2	ND	ND	ND
	ug/L	6/10/2003	--	--	2	ND	ND	ND	ND
	ug/L	12/8/2003	--	--	2	ND	ND	ND	ND
	ug/L	6/29/2004	--	--	2	ND	ND	ND	ND
	ug/L	12/20/2004	--	--	2	6.1	ND	ND	4.8
	ug/L	6/5/2005	--	--	2	ND	ND	ND	ND
	ug/L	12/7/2005	--	--	2	ND	4.9	4.9	5.4
	ug/L	6/5/2006	--	--	--	3.1	2.2	DRY	3.1
	ug/L	12/5/2006	--	--	--	4.8	2.9	7.2	6.9
	ug/L	5/30/2007	--	--	--	--	--	--	--
	ug/L	11/30/2007	--	--	--	--	--	--	--
	ug/L	5/19/2008	--	--	--	--	--	--	--
Fluoride - (SW Standard = 1800 ug/L)	ug/L	11/30/2007	32	100	2000	NM	DRY	DRY	NM
SWID # = 312	ug/L	5/19/2008	32	100	2000	320	97	110	290
Sulfide - (No SW Standard)	ug/L	12/1/1998	--	--	1000	ND	DRY	DRY	ND
SWID # = 187	ug/L	6/7/1999	--	--	200	600	DRY	DRY	ND
	ug/L	12/1/1999	--	--	--	--	--	--	--
	ug/L	6/6/2000	--	--	--	500	DRY	DRY	DRY
	ug/L	12/22/2000	--	--	--	760	DRY	DRY	DRY
	ug/L	6/4/2001	--	--	--	800	400	400	800
	ug/L	12/3/2001	--	--	200	ND	DRY	DRY	300
	ug/L	6/10/2002	--	--	200	ND	DRY	DRY	ND
	ug/L	12/16/2002	--	--	200	300	600	ND	400
	ug/L	6/10/2003	--	--	200	2600	800	ND	ND
	ug/L	12/8/2003	--	--	2000	ND	ND	ND	3700
	ug/L	6/29/2004	--	--	2000	ND	ND	ND	ND
	ug/L	12/20/2004	--	--	2000	ND	ND	ND	ND
	ug/L	6/5/2005	--	--	--	2500	15000	16000	15000
	ug/L	12/7/2005	--	--	2000	ND	ND	ND	ND
	ug/L	6/5/2006	--	--	2000	ND	120 J	DRY	ND
	ug/L	12/5/2006	--	--	--	16000	16000	16000	15000
	ug/L	5/30/2007	--	--	--	--	--	--	--
	ug/L	11/30/2007	--	--	--	--	--	--	--
	ug/L	5/19/2008	--	--	--	--	--	--	--
Ph (field)	S.U.	5/26/1998	--	--	--	--	--	--	--
SWID # = 320	S.U.	12/1/1998	--	--	--	--	--	--	--
	S.U.	6/7/1999	--	--	--	6	DRY	DRY	5.76
	S.U.	7/8/1999				--	DRY	DRY	--
	S.U.	12/13/1999	--	--	--	6.47	6.3	6.44	6.58
	S.U.	6/6/2000	--	--	--	6.54	DRY	DRY	DRY
	S.U.	12/11/2000	--	--	--	7.48	DRY	DRY	DRY
	S.U.	6/4/2001	--	--	--	7.08	6.92	6.94	7.11
	S.U.	12/3/2001	--	--	--	6.59	DRY	DRY	5.99
	S.U.	6/10/2002	--	--	--	7.81	DRY	DRY	8.13
	S.U.	12/16/2002	--	--	--	7.28	7.66	6.81	7.2
	S.U.	6/9/2003	--	--	--	7.14	7.58	--	7.49
	S.U.	12/9/2003	--	--	--	8.46	7.82	8.58	8.46
	S.U.	6/24/2004	--	--	--	7.53	6.91	7.4	7.57
	S.U.	12/20/2004	--	--	--	7.64	8.00	--	7.66
	S.U.	6/8/2005	--	--	--	7.5	7.69	7.31	7.59
	S.U.	12/7/2005	--	--	--	7.2	7.3	7.14	7.47
	S.U.	6/5/2006	--	--	--	7.58	7.24	DRY	7.49
	S.U.	12/5/2006	--	--	--	7.39	7.63	8.54	15.2
	S.U.	5/31/2007	--	--	--	8.55	DRY	DRY	8.64
	S.U.	11/30/2007	--	--	--	NM	DRY	DRY	NM
	S.U.	5/19/2008	--	--	--	8.26	8.25	8.35	8.3
Conductivity (field)	µs/cm	5/26/1998	--	--	--	--	--	--	--
SWID # = 323	µs/cm	12/1/1998	--	--	--	--	--	--	--
	µs/cm	6/7/1999	--	--	--	198	DRY	DRY	167
	µs/cm	7/8/1999	--	--	--	--	DRY	DRY	--
	µs/cm	12/13/1999	--	--	--	257.4	272.8	137.8	134.5
	µs/cm	6/6/2000	--	--	--	202.3	DRY	DRY	DRY
	µs/cm	12/11/2000	--	--	--	277.5	DRY	DRY	DRY
	µs/cm	6/4/2001	--	--	--	372.6	184.8	166.9	393.4
	µs/cm	12/3/2001	--	--	--	445	DRY	DRY	433.5
	µs/cm	6/10/2002	--	--	--	451	DRY	DRY	250
	µs/cm	12/16/2002	--	--	--	123	60	110	341
	µs/cm	6/9/2003	--	--	--	186	177	--	316
	µs/cm	12/8/2003	--	--	--	411.1	29.9	24.3	410
	µs/cm	6/28/2004	--	--	--	451	284	277	431
	µs/cm	12/20/2004	--	--	--	434	249	--	424
	µs/cm	6/8/2005	--	--	--	336	197.1	190.5	345.8
	µs/cm	12/8/2005	--	--	--	250	129	140	176
	µs/cm	6/5/2006	--	--	--	391	161	DRY	412
	µs/cm	12/5/2006	--	--	--	392	194	232	391
	µs/cm	5/31/2007	--	--	--	477	DRY	DRY	485
	µs/cm	11/30/2007	--	--	--	NM	DRY	DRY	NM
	µs/cm	5/19/2008	--	--	--	120	120	300	320

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Temperature (field)	°C	5/26/1998	--	--	--	--	--	--	--
SWID # = 325	°C	12/1/1998	--	--	--	--	--	--	--
	°C	6/7/1999	--	--	--	17.2	DRY	DRY	18
	°C	7/8/1999	--	--	--	--	DRY	DRY	--
	°C	12/13/1999	--	--	--	18.1	20.1	17.8	19.2
	°C	6/6/2000	--	--	--	17.7	DRY	DRY	DRY
	°C	12/11/2000	--	--	--	8.9	DRY	DRY	DRY
	°C	6/4/2001	--	--	--	22.3	18.7	20.2	22.5
	°C	12/3/2001	--	--	--	19.5	DRY	DRY	16.2
	°C	6/10/2002	--	--	--	23.49	DRY	DRY	23.43
	°C	12/16/2002	--	--	--	11.19	3.52	4.3	10.53
	°C	6/9/2003	--	--	--	23.36	23.23	--	23.08
	°C	12/8/2003	--	--	--	13.3	6.6	7.8	13.2
	°C	6/28/2004	--	--	--	22.92	21.22	23.4	22.84
	°C	12/20/2004	--	--	--	12.07	1.95	--	9.37
	°C	6/8/2005	--	--	--	23.06	20.83	21.45	22.9
	°C	12/8/2005	--	--	--	12.26	9.29	8.98	10.33
	°C	6/5/2006	--	--	--	21.8	20.12	DRY	21.75
	°C	12/5/2006	--	--	--	15.02	8.32	8	15.2
	°C	5/31/2007	--	--	--	24.28	DRY	DRY	23.8
	°C	11/30/2007	--	--	--	NM	DRY	DRY	NM
	°C	5/19/2008	--	--	--	19.0	19.0	22.6	21.7
Turbidity (field)	NTU	5/26/1998	--	--	--	--	--	--	--
SWID # = 330	NTU	12/1/1998	--	--	--	--	--	--	--
	NTU	6/7/1999	--	--	--	12	DRY	DRY	--
	NTU	7/8/1999				--	DRY	DRY	--
	NTU	12/13/1999	--	--	--	139.2	229	139.8	146.7
	NTU	6/6/2000	--	--	--	42.8	DRY	DRY	DRY
	NTU	12/11/2000	--	--	--	27.3	DRY	DRY	DRY
	NTU	6/4/2001	--	--	--	17.2	18.2	90	7.6
	NTU	12/3/2001	--	--	--	--	DRY	DRY	2.2
	NTU	6/10/2002	--	--	--	3.2	DRY	DRY	2.6
	NTU	12/16/2002	--	--	--	6.4	9	10	5.8
	NTU	6/9/2003	--	--	--	34	65.2	--	18
	NTU	12/8/2003	--	--	--	12	25	23	13
	NTU	6/28/2004	--	--	--	--	--	--	--
	NTU	12/20/2004	--	--	--	--	--	--	--
	NTU	6/8/2005	--	--	--	7.55	22.1	53	8.99
	NTU	12/8/2005	--	--	--	88	31	66	120
	NTU	6/5/2006	--	--	--	15.6	26.4	DRY	17.9
	NTU	12/5/2006	--	--	--	4.44	20.6	27.5	8.31
	NTU	5/31/2007	--	--	--	0	DRY	DRY	56.9
	NTU	11/30/2007	--	--	--	NM	DRY	DRY	NM
	NTU	5/19/2008	--	--	--	NM	NM	NM	NM
ORP (field)	mV	5/31/2007	--	--	--	70	DRY	DRY	45
SWID # = 336	mV	11/30/2007	--	--	--	NM	DRY	DRY	NM
	mV	5/19/2008	--	--	--	NM	NM	NM	NM
Dissolved Oxygen (field)	mg/L	12/1/2001	--	--	--	5.9	DRY	DRY	4.7
SWID # = 356	mg/L	6/10/2002	--	--	--	9.1	DRY	DRY	13.3
	mg/L	12/16/2002	--	--	--	11.64	10.81	10.51	11.57
	mg/L	6/9/2003	--	--	--	10.16	7.8	--	10.04
	mg/L	12/8/2003	--	--	--	10.5	12.6	12.5	10.5
	mg/L	6/24/2004	--	--	--	8.01	4.53	7.4	7.83
	mg/L	12/20/2004	--	--	--	9.93	12.2	--	10.01
	mg/L	6/8/2005	--	--	--	--	--	--	--
	mg/L	6/5/2006	--	--	--	6.59	5.45	DRY	6.74
	mg/L	12/5/2006	--	--	--	8.25	4.46	9.89	7.24
	mg/L	5/31/2007	--	--	--	8.1	DRY	DRY	7.7
	mg/L	11/30/2007	--	--	--	NM	DRY	DRY	NM
	mg/L	5/19/2008	--	--	--	NM	NM	NM	NM

Notes:
ug/L = micrograms per liter
mg/L= milligrams per liter
S.U. = Standard Units
NTU = Nephelometric Turbidity Units
mV= millivolts
ND = Not detected at the stated reporting limit
ORP= Oxidation Reduction Potential
µS/cm= microsiemens per centimeter
-- = no data available
Blanks = field, trip and method blanks
NM= not measured/analyzed

Surface Water Standards SW Standards are WS Standards (Ellerbee Creek is a WS-IV Classification) or Freshwater Aquatic Life Standards if no WS Standard exists
Shaded = Concentrations above the applicable Surface Water Standards have been shaded.
* * Standard is an Action Limit
* Sample data from 9/94 through 12/98 compiled and reported by Malcolm Pirnie, Inc.
* Sample data from 6/99 through 12/06 collected, compiled and reported by Weston Solutions, Inc.
* Sample data from 5/07 collected, compiled and reported by Golder Associates.
* Sample data from11/07 collected, compiled and reported by S&ME.
--
SWS Reporting Limit = NCPQL from 9/14/94 through 12/5/06 and NCSWSL for 5/30/07 and Later.
* Laboratory data prior to November 2007 was not validated by S&ME. Solid Waste Section Limits = NCPQL from 9/14/94 through 12/5/06 and NCSWSL for 5/30/07 and later

APPENDIX I

GROUNDWATER SAMPLING LOGS

GROUNDWATER SAMPLE COLLECTION SHEET

Project Name: City of Durham Closed (MSWLF) **Date:** 5-19-2008
Job Number: 1054-07-469 **Sampler:** JP/AW/JV

WELL I.D.	MW-9R	MW-2	MW-3R	MW-4R	MW-5
Casing Diameter (in.)	2	2	2	2	2
Total Well depth (ft.)	22.55	19.62	17.65	17.39	21.77
Water Depth	12.11	4.44	3.43	2.22	8.04
PURGE DATA					
Water Column (Total depth – Water depth)	10.44	15.18	14.22	15.17	13.73
Well Volume	1.70	2.47	2.31	2.47	2.23
Volume to Purge (3 to 5 well volumes)	5.11	7.42	6.95	7.42	6.71
Volume Purged (note if well bailed dry)	5.2	7.5	7.0	7.5	7.0
Date Purged	5/19/08	5/19/08	5/19/08	5/19/08	5/19/08
FIELD ANALYSIS DATA					
pH	6.52	5.36	6.29	6.82	7.13
Conductivity (µS/cm)	50	80	1650	760	770
Temperature (C) (1 Volume)	16.9	14.05	14.22	14.91	14.44
Turbidity (NTU)	309	55.8	668	50.5	57.2
Dissolved Oxygen (mg/L)	NM	NM	NM	NM	NM
pH	6.50	5.21	6.27	6.75	7.13
Conductivity	51	70	1660	770	770
Temperature (2 Volumes)	16.35	14.11	14.25	14.93	14.41
Turbidity (NTU)	47.5	27.9	138	54.5	24.9
Dissolved Oxygen	NM	NM	NM	NM	NM
pH	6.4/6.4*	5.21/5.21*	6.27/6.27*	6.89/6.85*	7.12/7.11*
Conductivity	50/50*	70/70*	1650/1650*	769/770*	770/770*
Temperature (3 Volumes)	16.27/16.20*	14.16/14.17*	14.18/14.20*	14.67/14.70*	14.38/14.46*
Turbidity (NTU)	45.8/21.5*	23.8/5.6*	129/60.4*	21.0/3.1*	14.8/6.9*
Dissolved Oxygen	NM	NM	NM	NM	NM
GROUNDWATER SAMPLE DATA					
Date Sampled	5/19/08	5/19/08	5/19/08	5/19/08	5/19/08
Time Sampled	1915	1120	1640	1520	1000
Equipment Blank					
Parameters					
Note: Volumes Per foot of Water Column For: 2” Well = 0.16 gal./ft. 4” Well = 0.66 gal./ft. 6” Well = 1.50 gal./ft.	0.16	0.16	0.16	0.16	0.16

* = Fourth volume sample data

Remarks: All wells sampled with dedicated bladder pumps and YSI Flow Thru Cell.

GROUNDWATER SAMPLE COLLECTION SHEET

Project Name: City of Durham Closed (MSWLF) **Date:** 5-19-2008
Job Number: 1054-07-469 **Sampler:** JP/AW/JV

WELL I.D.	MW-7R	MW-8	MW-6R			
Casing Diameter (in.)	2	2	2			
Total Well depth (ft.)	44.1	16.52	26.72			
Water Depth	15.23	8.23	11.35			
PURGE DATA						
Water Column (Total depth – Water depth)	28.87	8.29	15.37			
Well Volume	4.71	1.35	2.50			
Volume to Purge (3 to 5 well volumes)	14.11	4.05	7.51			
Volume Purged (note if well bailed dry)	15.0	4.5	7.5			
Date Purged	5/19/08	5/19/08	5/19/08			
FIELD ANALYSIS DATA						
pH	7.76	6.13	5.61			
Conductivity (µS/cm)	445	150	700			
Temperature (C) (1 Volume)	14.91	14.78	14.30			
Turbidity (NTU)	106	69.8	193.0			
Dissolved Oxygen (mg/L)	NM	NM	NM			
pH	7.78	6.12	5.61			
Conductivity	445	147	700			
Temperature (2 Volumes)	14.96	14.75	14.36			
Turbidity (NTU)	24.3	37.3	73.8			
Dissolved Oxygen	NM	NM	NM			
pH	7.78/7.78*	6.11/6.14*	5.61/5.62*			
Conductivity	445/445*	147/146*	700/700*			
Temperature (3 Volumes)	14.90/14.90*	14.75/14.70*	14.38/14.41*			
Turbidity (NTU)	9.1/3.0*	26.8/8.4*	40.5/15.9*			
Dissolved Oxygen	NM	NM	NM			
GROUNDWATER SAMPLE DATA						
Date Sampled	5/19/08	5/19/08	5/19/08			
Time Sampled	1730	1430	1245			
Equipment Blank						
Parameters						
Note: Volumes Per foot of Water Column For: 2” Well = 0.16 gal./ft. 4” Well = 0.66 gal./ft. 6” Well = 1.50 gal./ft.	0.16	0.16	0.16			

* = Fourth volume sample data

Remarks: All wells sampled with dedicated bladder pumps and YSI Flow Thru Cell.

APPENDIX II

MAY 2008

CERTIFICATES-OF-ANALYSIS, CHAIN-OF-CUSTODY FORMS AND LABORATORY DATA

ENVIRONMENTAL
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Est. 1970

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road

Raleigh, NC 27616

Report Summary

Friday June 06, 2008

Report Number: L346603
Samples Received: 05/21/08
Client Project: 1054-07-469

Description: City of Durham Landfill-MSWLF

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:

Tom Mellette, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, 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, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-01

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-9R

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 19:15

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Cyanide	U	1.2	5.0	ug/l	9012B	05/29/08	1	10
Sulfide	27.	16.	50.	ug/l	4500-S2	05/27/08	1	1000
Antimony	U	0.22	1.0	ug/l	6020	05/23/08	1	6
Arsenic	U	0.15	1.0	ug/l	6020	05/23/08	1	10
Beryllium	0.38	0.24	1.0	ug/l	6020	05/23/08	1	1
Cadmium	U	0.24	0.50	ug/l	6020	05/23/08	1	1
Copper	2.4	0.45	1.0	ug/l	6020	05/23/08	1	10
Selenium	U	0.43	1.0	ug/l	6020	05/23/08	1	10
Thallium	U	0.090	1.0	ug/l	6020	05/23/08	1	5.5
Zinc	12.	3.0	10.	ug/l	6020	05/23/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	05/25/08	1	.2
Barium	55.	1.0	5.0	ug/l	6010B	05/22/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	05/22/08	1	10
Cobalt	5.1	1.1	10.	ug/l	6010B	05/22/08	1	10
Lead	U	2.4	5.0	ug/l	6010B	05/22/08	1	5
Nickel	U	9.8	20.	ug/l	6010B	05/22/08	1	50
Silver	U	2.5	10.	ug/l	6010B	05/22/08	1	10
Tin	U	7.6	20.	ug/l	6010B	05/22/08	1	100
Vanadium	4.0	2.9	10.	ug/l	6010B	05/22/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	05/26/08	1	100
Acrolein	U	14.	50.	ug/l	8260B	05/26/08	1	53
Acrylonitrile	U	1.7	10.	ug/l	8260B	05/26/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	05/26/08	1	3
Bromoform	U	0.51	1.0	ug/l	8260B	05/26/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	05/26/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	05/26/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	05/26/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	05/26/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	05/26/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	05/26/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	05/26/08	1	1
1,2-Dibromoethane	U	0.48	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.48	5.0	ug/l	8260B	05/26/08	1	1

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
Note:
The reported analytical results relate only to the sample submitted.
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-01

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-9R

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 19:15

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Dibromomethane	U	0.28	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	5
1,3-Dichlorobenzene	U	0.19	1.0	ug/l	8260B	05/26/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	05/26/08	1	1
Dichlorodifluoromethane	U	0.54	5.0	ug/l	8260B	05/26/08	1	5
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	05/26/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	05/26/08	1	5
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	05/26/08	1	1
1,3-Dichloropropane	U	0.23	1.0	ug/l	8260B	05/26/08	1	1
2,2-Dichloropropane	U	0.25	1.0	ug/l	8260B	05/26/08	1	15
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	05/26/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	05/26/08	1	1
1,1-Dichloropropene	U	0.22	1.0	ug/l	8260B	05/26/08	1	5
Ethylbenzene	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	05/26/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	05/26/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	05/26/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	05/26/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	05/26/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	05/26/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	05/26/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	05/26/08	1	1
1,2,4-Trichlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	10
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	05/26/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	05/26/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	05/26/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	05/26/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	05/26/08	1	4
Acetonitrile	U	11.	50.	ug/l	8260B	05/26/08	1	200
Allyl chloride	U	0.85	5.0	ug/l	8260B	05/26/08	1	10
Chloroprene	U	7.0	50.	ug/l	8260B	05/26/08	1	20
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	05/26/08	1	100
Ethyl methacrylate	U	1.0	5.0	ug/l	8260B	05/26/08	1	10
Isobutanol	U	1.4	100	ug/l	8260B	05/26/08	1	100

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-01

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-9R

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 19:15

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Methacrylonitrile	U	11.	50.	ug/l	8260B	05/26/08	1	100
Methyl methacrylate	U	1.3	50.	ug/l	8260B	05/26/08	1	30
Propionitrile	U	7.7	50.	ug/l	8260B	05/26/08	1	150
Surrogate Recovery								
Toluene-d8	105.		0.00100	% Rec.	8260B	05/26/08	1	
Dibromofluoromethane	106.		0.00100	% Rec.	8260B	05/26/08	1	
4-Bromofluorobenzene	97.1		0.00100	% Rec.	8260B	05/26/08	1	
Pesticide/PCBs								
Aldrin	U	0.025	0.050	ug/l	8081/80	06/01/08	1	.05
Alpha BHC	U	0.025	0.050	ug/l	8081/80	06/01/08	1	.05
Beta BHC	U	0.023	0.050	ug/l	8081/80	06/01/08	1	.05
Delta BHC	U	0.0090	0.050	ug/l	8081/80	06/01/08	1	.05
Gamma BHC	U	0.033	0.050	ug/l	8081/80	06/01/08	1	.05
Chlordane	U	0.14	0.50	ug/l	8081/80	06/01/08	1	.5
4,4-DDD	U	0.026	0.050	ug/l	8081/80	06/01/08	1	.1
4,4-DDE	U	0.025	0.050	ug/l	8081/80	06/01/08	1	.1
4,4-DDT	U	0.043	0.10	ug/l	8081/80	06/01/08	1	.1
Dieldrin	U	0.026	0.050	ug/l	8081/80	06/01/08	1	.075
Endosulfan I	U	0.016	0.050	ug/l	8081/80	06/01/08	1	.1
Endosulfan II	U	0.015	0.050	ug/l	8081/80	06/01/08	1	.1
Endosulfan sulfate	U	0.027	0.050	ug/l	8081/80	06/01/08	1	.1
Endrin	U	0.025	0.050	ug/l	8081/80	06/01/08	1	.1
Endrin aldehyde	U	0.024	0.050	ug/l	8081/80	06/01/08	1	.1
Heptachlor	U	0.031	0.050	ug/l	8081/80	06/01/08	1	.05
Heptachlor epoxide	U	0.027	0.050	ug/l	8081/80	06/01/08	1	.075
Hexachlorobenzene	U	0.021	0.50	ug/l	8081/80	06/01/08	1	10
Methoxychlor	U	0.035	0.10	ug/l	8081/80	06/01/08	1	1
Toxaphene	U	0.64	1.0	ug/l	8081/80	06/01/08	1	1.5
PCB 1016	U	0.077	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1221	U	0.16	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1232	U	0.18	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1242	U	0.099	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1248	U	0.039	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1254	U	0.12	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1260	U	0.16	0.50	ug/l	8081/80	05/24/08	1	2
Pest/PCBs Surrogates								
Decachlorobiphenyl	90.0			% Rec.	8081/80	05/24/08	1	
Tetrachloro-m-xylene	40.0			% Rec.	8081/80	05/24/08	1	
Herbicides								
2,4-D	U	0.14	2.0	ug/l	8151	05/23/08	1	2

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-01

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-9R

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 19:15

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
2,4,5-T	U	0.18	2.0	ug/l	8151	05/23/08	1	2
2,4,5-TP (Silvex)	U	0.22	2.0	ug/l	8151	05/23/08	1	2
Dinoseb	U	0.11	2.0	ug/l	8151	05/23/08	1	2
Surrogate Recovery								
2,4-Dichlorophenyl Acetic Acid	99.4			% Rec.	8151	05/23/08	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-02

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-2

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 11:20

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Cyanide	U	1.2	5.0	ug/l	9012B	05/29/08	1	10
Sulfide	U	16.	50.	ug/l	4500-S2	05/27/08	1	1000
Antimony	U	0.22	1.0	ug/l	6020	05/23/08	1	6
Arsenic	U	0.15	1.0	ug/l	6020	05/23/08	1	10
Beryllium	U	0.24	1.0	ug/l	6020	05/23/08	1	1
Cadmium	U	0.24	0.50	ug/l	6020	05/23/08	1	1
Copper	1.8	0.45	1.0	ug/l	6020	05/23/08	1	10
Selenium	U	0.43	1.0	ug/l	6020	05/23/08	1	10
Thallium	U	0.090	1.0	ug/l	6020	05/23/08	1	5.5
Zinc	8.7	3.0	10.	ug/l	6020	05/23/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	05/25/08	1	.2
Barium	66.	1.0	5.0	ug/l	6010B	05/23/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	05/23/08	1	10
Cobalt	U	1.1	10.	ug/l	6010B	05/23/08	1	10
Lead	U	2.4	5.0	ug/l	6010B	05/23/08	1	5
Nickel	U	9.8	20.	ug/l	6010B	05/23/08	1	50
Silver	U	2.5	10.	ug/l	6010B	05/23/08	1	10
Tin	U	7.6	20.	ug/l	6010B	05/23/08	1	100
Vanadium	U	2.9	10.	ug/l	6010B	05/23/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	05/26/08	1	100
Acrolein	U	14.	50.	ug/l	8260B	05/26/08	1	53
Acrylonitrile	U	1.7	10.	ug/l	8260B	05/26/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	05/26/08	1	3
Bromoform	U	0.51	1.0	ug/l	8260B	05/26/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	05/26/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	05/26/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	05/26/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	05/26/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	05/26/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	05/26/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	05/26/08	1	1
1,2-Dibromoethane	U	0.48	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.48	5.0	ug/l	8260B	05/26/08	1	1

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-02

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-2

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 11:20

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Dibromomethane	U	0.28	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	5
1,3-Dichlorobenzene	U	0.19	1.0	ug/l	8260B	05/26/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	05/26/08	1	1
Dichlorodifluoromethane	U	0.54	5.0	ug/l	8260B	05/26/08	1	5
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	05/26/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	05/26/08	1	5
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	05/26/08	1	1
1,3-Dichloropropane	U	0.23	1.0	ug/l	8260B	05/26/08	1	1
2,2-Dichloropropane	U	0.25	1.0	ug/l	8260B	05/26/08	1	15
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	05/26/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	05/26/08	1	1
1,1-Dichloropropene	U	0.22	1.0	ug/l	8260B	05/26/08	1	5
Ethylbenzene	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	05/26/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	05/26/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	05/26/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	05/26/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	05/26/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	05/26/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	05/26/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	05/26/08	1	1
1,2,4-Trichlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	10
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	05/26/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	05/26/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	05/26/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	05/26/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	05/26/08	1	4
Acetonitrile	U	11.	50.	ug/l	8260B	05/26/08	1	200
Allyl chloride	U	0.85	5.0	ug/l	8260B	05/26/08	1	10
Chloroprene	U	7.0	50.	ug/l	8260B	05/26/08	1	20
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	05/26/08	1	100
Ethyl methacrylate	U	1.0	5.0	ug/l	8260B	05/26/08	1	10
Isobutanol	U	1.4	100	ug/l	8260B	05/26/08	1	100

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-02

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-2

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 11:20

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Methacrylonitrile	U	11.	50.	ug/l	8260B	05/26/08	1	100
Methyl methacrylate	U	1.3	50.	ug/l	8260B	05/26/08	1	30
Propionitrile	U	7.7	50.	ug/l	8260B	05/26/08	1	150
Surrogate Recovery								
Toluene-d8	105.		0.00100	% Rec.	8260B	05/26/08	1	
Dibromofluoromethane	109.		0.00100	% Rec.	8260B	05/26/08	1	
4-Bromofluorobenzene	94.7		0.00100	% Rec.	8260B	05/26/08	1	
Pesticide/PCBs								
Aldrin	U	0.026	0.052	ug/l	8081/80	06/01/08	1.03	.05
Alpha BHC	U	0.026	0.052	ug/l	8081/80	06/01/08	1.03	.05
Beta BHC	U	0.024	0.052	ug/l	8081/80	06/01/08	1.03	.05
Delta BHC	U	0.0093	0.052	ug/l	8081/80	06/01/08	1.03	.05
Gamma BHC	U	0.034	0.052	ug/l	8081/80	06/01/08	1.03	.05
Chlordane	U	0.14	0.52	ug/l	8081/80	06/01/08	1.03	.5
4,4-DDD	U	0.027	0.052	ug/l	8081/80	06/01/08	1.03	.1
4,4-DDE	U	0.026	0.052	ug/l	8081/80	06/01/08	1.03	.1
4,4-DDT	U	0.044	0.10	ug/l	8081/80	06/01/08	1.03	.1
Dieldrin	U	0.027	0.052	ug/l	8081/80	06/01/08	1.03	.075
Endosulfan I	U	0.016	0.052	ug/l	8081/80	06/01/08	1.03	.1
Endosulfan II	U	0.015	0.052	ug/l	8081/80	06/01/08	1.03	.1
Endosulfan sulfate	U	0.028	0.052	ug/l	8081/80	06/01/08	1.03	.1
Endrin	U	0.026	0.052	ug/l	8081/80	06/01/08	1.03	.1
Endrin aldehyde	U	0.025	0.052	ug/l	8081/80	06/01/08	1.03	.1
Heptachlor	U	0.032	0.052	ug/l	8081/80	06/01/08	1.03	.05
Heptachlor epoxide	U	0.028	0.052	ug/l	8081/80	06/01/08	1.03	.075
Hexachlorobenzene	U	0.022	0.52	ug/l	8081/80	06/01/08	1.03	10
Methoxychlor	U	0.036	0.10	ug/l	8081/80	06/01/08	1.03	1
Toxaphene	U	0.66	1.0	ug/l	8081/80	06/01/08	1.03	1.5
PCB 1016	U	0.079	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1221	U	0.17	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1232	U	0.18	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1242	U	0.10	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1248	U	0.040	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1254	U	0.12	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1260	U	0.16	0.52	ug/l	8081/80	05/24/08	1.03	2
Pest/PCBs Surrogates								
Decachlorobiphenyl	75.0			% Rec.	8081/80	05/24/08	1.03	
Tetrachloro-m-xylene	65.0			% Rec.	8081/80	05/24/08	1.03	
Herbicides								
2,4-D	U	0.14	2.0	ug/l	8151	05/23/08	1	2

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-02

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-2

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 11:20

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
2,4,5-T	U	0.18	2.0	ug/l	8151	05/23/08	1	2
2,4,5-TP (Silvex)	U	0.22	2.0	ug/l	8151	05/23/08	1	2
Dinoseb	U	0.11	2.0	ug/l	8151	05/23/08	1	2
Surrogate Recovery								
2,4-Dichlorophenyl Acetic Acid	95.4			% Rec.	8151	05/23/08	1	
Ethylene Dibromide	U	0.0057	0.010	ug/l	8011	05/27/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.0063	0.020	ug/l	8011	05/27/08	1	1
Base/Neutral Extractables								
Acenaphthene	U	1.8	10.	ug/l	8270C	05/22/08	1	10
Acenaphthylene	U	1.9	10.	ug/l	8270C	05/22/08	1	10
Anthracene	U	1.1	10.	ug/l	8270C	05/22/08	1	10
Benzo(a)anthracene	U	0.70	10.	ug/l	8270C	05/22/08	1	10
Benzo(b)fluoranthene	U	0.77	10.	ug/l	8270C	05/22/08	1	10
Benzo(k)fluoranthene	U	0.90	10.	ug/l	8270C	05/22/08	1	10
Benzo(g,h,i)perylene	U	0.65	10.	ug/l	8270C	05/22/08	1	10
Benzo(a)pyrene	U	0.65	10.	ug/l	8270C	05/22/08	1	10
Benzyl alcohol	U	1.4	10.	ug/l	8270C	05/22/08	1	20
Bis(2-chlorethoxy)methane	U	2.3	10.	ug/l	8270C	05/22/08	1	10
Bis(2-chloroethyl)ether	U	1.9	10.	ug/l	8270C	05/22/08	1	10
4-Bromophenyl-phenylether	U	1.3	10.	ug/l	8270C	05/22/08	1	10
4-Chloroaniline	U	2.6	10.	ug/l	8270C	05/22/08	1	20
2-Chloronaphthalene	U	1.7	10.	ug/l	8270C	05/22/08	1	10
4-Chlorophenyl-phenylether	U	1.8	10.	ug/l	8270C	05/22/08	1	10
Chrysene	U	0.80	10.	ug/l	8270C	05/22/08	1	10
Dibenz(a,h)anthracene	U	0.70	10.	ug/l	8270C	05/22/08	1	10
Dibenzofuran	U	1.5	10.	ug/l	8270C	05/22/08	1	10
3,3-Dichlorobenzidine	U	0.79	10.	ug/l	8270C	05/22/08	1	20
2,4-Dinitrotoluene	U	1.1	10.	ug/l	8270C	05/22/08	1	10
2,6-Dinitrotoluene	U	1.4	10.	ug/l	8270C	05/22/08	1	10
Fluoranthene	U	1.2	10.	ug/l	8270C	05/22/08	1	10
Fluorene	U	1.5	10.	ug/l	8270C	05/22/08	1	10
Hexachlorobenzene	U	1.2	10.	ug/l	8270C	05/22/08	1	10
Hexachloro-1,3-butadiene	U	2.4	10.	ug/l	8270C	05/22/08	1	10
Hexachlorocyclopentadiene	U	1.6	10.	ug/l	8270C	05/22/08	1	10
Hexachloroethane	U	1.8	10.	ug/l	8270C	05/22/08	1	10
Indeno(1,2,3-cd)pyrene	U	0.72	10.	ug/l	8270C	05/22/08	1	10
Isophorone	U	2.8	10.	ug/l	8270C	05/22/08	1	10
2-Methylnaphthalene	U	2.0	10.	ug/l	8270C	05/22/08	1	10
Naphthalene	U	2.1	10.	ug/l	8270C	05/22/08	1	10
2-Nitroaniline	U	1.5	10.	ug/l	8270C	05/22/08	1	50

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-02

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-2

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 11:20

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
3-Nitroaniline	U	1.2	10.	ug/l	8270C	05/22/08	1	50
4-Nitroaniline	U	1.6	10.	ug/l	8270C	05/22/08	1	20
Nitrobenzene	U	2.1	10.	ug/l	8270C	05/22/08	1	10
n-Nitrosodiphenylamine	U	1.7	10.	ug/l	8270C	05/22/08	1	10
n-Nitrosodi-n-propylamine	U	2.4	10.	ug/l	8270C	05/22/08	1	10
Phenanthrene	U	1.1	10.	ug/l	8270C	05/22/08	1	10
Benzylbutyl phthalate	U	1.0	10.	ug/l	8270C	05/22/08	1	10
Bis(2-ethylhexyl)phthalate	U	1.3	10.	ug/l	8270C	05/22/08	1	15
Di-n-butyl phthalate	U	1.1	10.	ug/l	8270C	05/22/08	1	10
Diethyl phthalate	U	1.1	10.	ug/l	8270C	05/22/08	1	10
Dimethyl phthalate	U	1.3	10.	ug/l	8270C	05/22/08	1	10
Di-n-octyl phthalate	U	0.94	10.	ug/l	8270C	05/22/08	1	10
Pyrene	U	0.77	10.	ug/l	8270C	05/22/08	1	10
1,2,4-Trichlorobenzene	U	2.0	10.	ug/l	8270C	05/22/08	1	10
Acid Extractables								
4-Chloro-3-methylphenol	U	1.8	10.	ug/l	8270C	05/22/08	1	20
2-Chlorophenol	U	1.3	10.	ug/l	8270C	05/22/08	1	10
2-Methylphenol	U	1.3	10.	ug/l	8270C	05/22/08	1	10
3&4-methyl phenol	U	1.1	10.	ug/l	8270C	05/22/08	1	10
2,4-Dichlorophenol	U	2.0	10.	ug/l	8270C	05/22/08	1	50
2,4-Dimethylphenol	U	2.1	10.	ug/l	8270C	05/22/08	1	10
4,6-Dinitro-2-methylphenol	U	2.2	10.	ug/l	8270C	05/22/08	1	50
2,4-Dinitrophenol	U	1.2	10.	ug/l	8270C	05/22/08	1	50
2-Nitrophenol	U	2.1	10.	ug/l	8270C	05/22/08	1	10
4-Nitrophenol	U	0.76	10.	ug/l	8270C	05/22/08	1	50
Pentachlorophenol	U	2.4	10.	ug/l	8270C	05/22/08	1	25
Phenol	U	0.59	10.	ug/l	8270C	05/22/08	1	10
2,4,5-Trichlorophenol	U	1.7	10.	ug/l	8270C	05/22/08	1	10
2,4,6-Trichlorophenol	U	2.0	10.	ug/l	8270C	05/22/08	1	10
Additional Semi-Volatiles								
Acetophenone	U	3.3	10.	ug/l	8270C	05/22/08	1	10
2-Acetylaminofluorene	U	3.3	10.	ug/l	8270C	05/28/08	1	20
4-Aminobiphenyl	U	3.3	10.	ug/l	8270C	05/28/08	1	15
Chlorobenzilate	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Diallate	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Ethyl methanesulfonate	U	3.3	10.	ug/l	8270C	05/28/08	1	20
Famphur	U	3.3	10.	ug/l	8270C	05/28/08	1	20
Hexachloropropene	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Isodrin	U	3.3	10.	ug/l	8270C	05/28/08	1	20
Isosafrole	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Kepone	U	3.3	10.	ug/l	8270C	05/28/08	1	20
Methapyrilene	U	3.3	10.	ug/l	8270C	05/28/08	1	100

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-02

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-2

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 11:20

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
3-Methylcholanthrene	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Methyl methanesulfonate	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Methyl parathion	U	3.3	10.	ug/l	8270C	05/28/08	1	10
1,4-Naphthoquinone	U	3.3	10.	ug/l	8270C	05/28/08	1	10
1-Naphthylamine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
2-Naphthylamine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
n-Nitrosodi-n-butylamine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
n-Nitrosodiethylamine	U	3.3	10.	ug/l	8270C	05/28/08	1	20
n-Nitrosodimethylamine	U	1.3	10.	ug/l	8270C	05/22/08	1	10
n-Nitrosomethylethylamine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
n-Nitrosopiperidine	U	3.3	10.	ug/l	8270C	05/28/08	1	20
n-Nitrosopyrrolidine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
5-Nitro-o-toluidine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Parathion	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Pentachlorobenzene	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Pentachloronitrobenzene	U	3.3	10.	ug/l	8270C	05/28/08	1	20
Phenacetin	U	3.3	10.	ug/l	8270C	05/28/08	1	20
Phorate	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Pronamide	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Dimethoate	U	3.3	10.	ug/l	8270C	05/28/08	1	20
P-(Dimethylamino) Azobenzene	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Dimethylbenz (A) Anthracene	U	3.3	10.	ug/l	8270C	05/28/08	1	10
3,3-Dimethylbenzidine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
1,3-Dinitrobenzene	U	3.3	10.	ug/l	8270C	05/28/08	1	20
Diphenylamine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Disulfoton	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Safrole	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Thionazin	U	3.3	10.	ug/l	8270C	05/28/08	1	20
o-Toluidine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
O,O,O-Triethyl phosphorothioate	U	3.3	10.	ug/l	8270C	05/28/08	1	10
sym-Trinitrobenzene	U	3.3	10.	ug/l	8270C	05/28/08	1	10
1,2,4,5-Tetrachlorobenzene	U	3.3	10.	ug/l	8270C	05/22/08	1	10
2,6-Dichlorophenol	U	3.3	10.	ug/l	8270C	05/28/08	1	10
2,3,4,6-Tetrachlorophenol	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Surrogate Recovery								
Nitrobenzene-d5	58.3			% Rec.	8270C	05/22/08	1	
2-Fluorobiphenyl	63.5			% Rec.	8270C	05/22/08	1	
p-Terphenyl-d14	86.1			% Rec.	8270C	05/22/08	1	
Phenol-d5	24.5			% Rec.	8270C	05/22/08	1	
2-Fluorophenol	36.5			% Rec.	8270C	05/22/08	1	
2,4,6-Tribromophenol	69.5			% Rec.	8270C	05/22/08	1	

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-03

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-3B

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 16:40

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Cyanide	2.5	1.2	5.0	ug/l	9012B	05/29/08	1	10
Sulfide	36.	16.	50.	ug/l	4500-S2	05/27/08	1	1000
Antimony	0.26	0.22	1.0	ug/l	6020	05/23/08	1	6
Arsenic	2.7	0.15	1.0	ug/l	6020	05/23/08	1	10
Beryllium	0.25	0.24	1.0	ug/l	6020	05/23/08	1	1
Cadmium	U	0.24	0.50	ug/l	6020	05/23/08	1	1
Copper	7.3	0.45	1.0	ug/l	6020	05/23/08	1	10
Selenium	0.85	0.43	1.0	ug/l	6020	05/23/08	1	10
Thallium	U	0.090	1.0	ug/l	6020	05/23/08	1	5.5
Zinc	45.	3.0	10.	ug/l	6020	05/23/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	05/25/08	1	.2
Barium	530	1.0	5.0	ug/l	6010B	05/23/08	1	100
Chromium	2.4	2.3	10.	ug/l	6010B	05/23/08	1	10
Cobalt	7.3	1.1	10.	ug/l	6010B	05/23/08	1	10
Lead	U	2.4	5.0	ug/l	6010B	05/23/08	1	5
Nickel	U	9.8	20.	ug/l	6010B	05/23/08	1	50
Silver	U	2.5	10.	ug/l	6010B	05/23/08	1	10
Tin	U	7.6	20.	ug/l	6010B	05/23/08	1	100
Vanadium	9.0	2.9	10.	ug/l	6010B	05/23/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	05/26/08	1	100
Acrolein	U	14.	50.	ug/l	8260B	05/26/08	1	53
Acrylonitrile	U	1.7	10.	ug/l	8260B	05/26/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	05/26/08	1	3
Bromoform	U	0.51	1.0	ug/l	8260B	05/26/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	05/26/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	05/26/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	05/26/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	05/26/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	05/26/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	05/26/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	05/26/08	1	1
1,2-Dibromoethane	U	0.48	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.48	5.0	ug/l	8260B	05/26/08	1	1

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-03

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-3B

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 16:40

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Dibromomethane	U	0.28	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	5
1,3-Dichlorobenzene	U	0.19	1.0	ug/l	8260B	05/26/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	05/26/08	1	1
Dichlorodifluoromethane	U	0.54	5.0	ug/l	8260B	05/26/08	1	5
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	05/26/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	05/26/08	1	5
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	05/26/08	1	1
1,3-Dichloropropane	U	0.23	1.0	ug/l	8260B	05/26/08	1	1
2,2-Dichloropropane	U	0.25	1.0	ug/l	8260B	05/26/08	1	15
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	05/26/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	05/26/08	1	1
1,1-Dichloropropene	U	0.22	1.0	ug/l	8260B	05/26/08	1	5
Ethylbenzene	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	05/26/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	05/26/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	05/26/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	05/26/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	05/26/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	05/26/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	05/26/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	05/26/08	1	1
1,2,4-Trichlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	10
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	05/26/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	05/26/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	05/26/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	05/26/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	05/26/08	1	4
Acetonitrile	U	11.	50.	ug/l	8260B	05/26/08	1	200
Allyl chloride	U	0.85	5.0	ug/l	8260B	05/26/08	1	10
Chloroprene	U	7.0	50.	ug/l	8260B	05/26/08	1	20
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	05/26/08	1	100
Ethyl methacrylate	U	1.0	5.0	ug/l	8260B	05/26/08	1	10
Isobutanol	U	1.4	100	ug/l	8260B	05/26/08	1	100

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-03

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-3B

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 16:40

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Methacrylonitrile	U	11.	50.	ug/l	8260B	05/26/08	1	100
Methyl methacrylate	U	1.3	50.	ug/l	8260B	05/26/08	1	30
Propionitrile	U	7.7	50.	ug/l	8260B	05/26/08	1	150
Surrogate Recovery								
Toluene-d8	106.		0.00100	% Rec.	8260B	05/26/08	1	
Dibromofluoromethane	107.		0.00100	% Rec.	8260B	05/26/08	1	
4-Bromofluorobenzene	98.4		0.00100	% Rec.	8260B	05/26/08	1	
Pesticide/PCBs								
Aldrin	U	0.026	0.052	ug/l	8081/80	06/01/08	1.03	.05
Alpha BHC	U	0.026	0.052	ug/l	8081/80	06/01/08	1.03	.05
Beta BHC	U	0.024	0.052	ug/l	8081/80	06/01/08	1.03	.05
Delta BHC	U	0.0093	0.052	ug/l	8081/80	06/01/08	1.03	.05
Gamma BHC	U	0.034	0.052	ug/l	8081/80	06/01/08	1.03	.05
Chlordane	U	0.14	0.52	ug/l	8081/80	06/01/08	1.03	.5
4,4-DDD	U	0.027	0.052	ug/l	8081/80	06/01/08	1.03	.1
4,4-DDE	U	0.026	0.052	ug/l	8081/80	06/01/08	1.03	.1
4,4-DDT	U	0.044	0.10	ug/l	8081/80	06/01/08	1.03	.1
Dieldrin	U	0.027	0.052	ug/l	8081/80	06/01/08	1.03	.075
Endosulfan I	U	0.016	0.052	ug/l	8081/80	06/01/08	1.03	.1
Endosulfan II	U	0.015	0.052	ug/l	8081/80	06/01/08	1.03	.1
Endosulfan sulfate	U	0.028	0.052	ug/l	8081/80	06/01/08	1.03	.1
Endrin	U	0.026	0.052	ug/l	8081/80	06/01/08	1.03	.1
Endrin aldehyde	U	0.025	0.052	ug/l	8081/80	06/01/08	1.03	.1
Heptachlor	U	0.032	0.052	ug/l	8081/80	06/01/08	1.03	.05
Heptachlor epoxide	U	0.028	0.052	ug/l	8081/80	06/01/08	1.03	.075
Hexachlorobenzene	U	0.022	0.52	ug/l	8081/80	06/01/08	1.03	10
Methoxychlor	U	0.036	0.10	ug/l	8081/80	06/01/08	1.03	1
Toxaphene	U	0.66	1.0	ug/l	8081/80	06/01/08	1.03	1.5
PCB 1016	U	0.079	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1221	U	0.17	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1232	U	0.18	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1242	U	0.10	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1248	U	0.040	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1254	U	0.12	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1260	U	0.16	0.52	ug/l	8081/80	05/24/08	1.03	2
Pest/PCBs Surrogates								
Decachlorobiphenyl	50.0			% Rec.	8081/80	05/24/08	1.03	
Tetrachloro-m-xylene	40.0			% Rec.	8081/80	05/24/08	1.03	
Herbicides								
2,4-D	U	0.14	2.0	ug/l	8151	05/23/08	1	2

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-03

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-3B

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 16:40

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
2,4,5-T	U	0.18	2.0	ug/l	8151	05/23/08	1	2
2,4,5-TP (Silvex)	U	0.22	2.0	ug/l	8151	05/23/08	1	2
Dinoseb	U	0.11	2.0	ug/l	8151	05/23/08	1	2
Surrogate Recovery								
2,4-Dichlorophenyl Acetic Acid	104.			% Rec.	8151	05/23/08	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-04

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-4R

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 15:20

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Cyanide	U	1.2	5.0	ug/l	9012B	05/29/08	1	10
Sulfide	U	16.	50.	ug/l	4500-S2	05/27/08	1	1000
Antimony	U	0.22	1.0	ug/l	6020	05/23/08	1	6
Arsenic	U	0.15	1.0	ug/l	6020	05/23/08	1	10
Beryllium	U	0.24	1.0	ug/l	6020	05/23/08	1	1
Cadmium	U	0.24	0.50	ug/l	6020	05/23/08	1	1
Copper	4.6	0.45	1.0	ug/l	6020	05/23/08	1	10
Selenium	0.47	0.43	1.0	ug/l	6020	05/23/08	1	10
Thallium	U	0.090	1.0	ug/l	6020	05/23/08	1	5.5
Zinc	30.	3.0	10.	ug/l	6020	05/23/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	05/25/08	1	.2
Barium	580	1.0	5.0	ug/l	6010B	05/23/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	05/23/08	1	10
Cobalt	U	1.1	10.	ug/l	6010B	05/23/08	1	10
Lead	U	2.4	5.0	ug/l	6010B	05/23/08	1	5
Nickel	U	9.8	20.	ug/l	6010B	05/23/08	1	50
Silver	U	2.5	10.	ug/l	6010B	05/23/08	1	10
Tin	U	7.6	20.	ug/l	6010B	05/23/08	1	100
Vanadium	U	2.9	10.	ug/l	6010B	05/23/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	05/26/08	1	100
Acrolein	U	14.	50.	ug/l	8260B	05/26/08	1	53
Acrylonitrile	U	1.7	10.	ug/l	8260B	05/26/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	05/26/08	1	3
Bromoform	U	0.51	1.0	ug/l	8260B	05/26/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	05/26/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	05/26/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	05/26/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	05/26/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	05/26/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	05/26/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	05/26/08	1	1
1,2-Dibromoethane	U	0.48	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.48	5.0	ug/l	8260B	05/26/08	1	1

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-04

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-4R

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 15:20

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Dibromomethane	U	0.28	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	5
1,3-Dichlorobenzene	U	0.19	1.0	ug/l	8260B	05/26/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	05/26/08	1	1
Dichlorodifluoromethane	U	0.54	5.0	ug/l	8260B	05/26/08	1	5
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	05/26/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	05/26/08	1	5
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	05/26/08	1	1
1,3-Dichloropropane	U	0.23	1.0	ug/l	8260B	05/26/08	1	1
2,2-Dichloropropane	U	0.25	1.0	ug/l	8260B	05/26/08	1	15
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	05/26/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	05/26/08	1	1
1,1-Dichloropropene	U	0.22	1.0	ug/l	8260B	05/26/08	1	5
Ethylbenzene	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	05/26/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	05/26/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	05/26/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	05/26/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	05/26/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	05/26/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	05/26/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	05/26/08	1	1
1,2,4-Trichlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	10
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	05/26/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	05/26/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	05/26/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	05/26/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	05/26/08	1	4
Acetonitrile	U	11.	50.	ug/l	8260B	05/26/08	1	200
Allyl chloride	U	0.85	5.0	ug/l	8260B	05/26/08	1	10
Chloroprene	U	7.0	50.	ug/l	8260B	05/26/08	1	20
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	05/26/08	1	100
Ethyl methacrylate	U	1.0	5.0	ug/l	8260B	05/26/08	1	10
Isobutanol	U	1.4	100	ug/l	8260B	05/26/08	1	100

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-04

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-4R

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 15:20

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Methacrylonitrile	U	11.	50.	ug/l	8260B	05/26/08	1	100
Methyl methacrylate	U	1.3	50.	ug/l	8260B	05/26/08	1	30
Propionitrile	U	7.7	50.	ug/l	8260B	05/26/08	1	150
Surrogate Recovery								
Toluene-d8	104.		0.00100	% Rec.	8260B	05/26/08	1	
Dibromofluoromethane	110.		0.00100	% Rec.	8260B	05/26/08	1	
4-Bromofluorobenzene	94.9		0.00100	% Rec.	8260B	05/26/08	1	
Pesticide/PCBs								
Aldrin	U	0.025	0.050	ug/l	8081/80	06/01/08	1	.05
Alpha BHC	U	0.025	0.050	ug/l	8081/80	06/01/08	1	.05
Beta BHC	U	0.023	0.050	ug/l	8081/80	06/01/08	1	.05
Delta BHC	U	0.0090	0.050	ug/l	8081/80	06/01/08	1	.05
Gamma BHC	U	0.033	0.050	ug/l	8081/80	06/01/08	1	.05
Chlordane	U	0.14	0.50	ug/l	8081/80	06/01/08	1	.5
4,4-DDD	U	0.026	0.050	ug/l	8081/80	06/01/08	1	.1
4,4-DDE	U	0.025	0.050	ug/l	8081/80	06/01/08	1	.1
4,4-DDT	U	0.043	0.10	ug/l	8081/80	06/01/08	1	.1
Dieldrin	U	0.026	0.050	ug/l	8081/80	06/01/08	1	.075
Endosulfan I	U	0.016	0.050	ug/l	8081/80	06/01/08	1	.1
Endosulfan II	U	0.015	0.050	ug/l	8081/80	06/01/08	1	.1
Endosulfan sulfate	U	0.027	0.050	ug/l	8081/80	06/01/08	1	.1
Endrin	U	0.025	0.050	ug/l	8081/80	06/01/08	1	.1
Endrin aldehyde	U	0.024	0.050	ug/l	8081/80	06/01/08	1	.1
Heptachlor	U	0.031	0.050	ug/l	8081/80	06/01/08	1	.05
Heptachlor epoxide	U	0.027	0.050	ug/l	8081/80	06/01/08	1	.075
Hexachlorobenzene	U	0.021	0.50	ug/l	8081/80	06/01/08	1	10
Methoxychlor	U	0.035	0.10	ug/l	8081/80	06/01/08	1	1
Toxaphene	U	0.64	1.0	ug/l	8081/80	06/01/08	1	1.5
PCB 1016	U	0.077	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1221	U	0.16	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1232	U	0.18	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1242	U	0.099	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1248	U	0.039	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1254	U	0.12	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1260	U	0.16	0.50	ug/l	8081/80	05/24/08	1	2
Pest/PCBs Surrogates								
Decachlorobiphenyl	90.0			% Rec.	8081/80	05/24/08	1	
Tetrachloro-m-xylene	45.0			% Rec.	8081/80	05/24/08	1	
Herbicides								
2,4-D	U	0.14	2.0	ug/l	8151	05/23/08	1	2

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-04

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-4R

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 15:20

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
2,4,5-T	U	0.18	2.0	ug/l	8151	05/23/08	1	2
2,4,5-TP (Silvex)	U	0.22	2.0	ug/l	8151	05/23/08	1	2
Dinoseb	U	0.11	2.0	ug/l	8151	05/23/08	1	2
Surrogate Recovery								
2,4-Dichlorophenyl Acetic Acid	106.			% Rec.	8151	05/23/08	1	
Ethylene Dibromide	U	0.0057	0.010	ug/l	8011	05/27/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.0063	0.020	ug/l	8011	05/27/08	1	1
Base/Neutral Extractables								
Acenaphthene	U	1.8	11.	ug/l	8270C	05/23/08	1.05	10
Acenaphthylene	U	2.0	11.	ug/l	8270C	05/23/08	1.05	10
Anthracene	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(a)anthracene	U	0.74	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(b)fluoranthene	U	0.81	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(k)fluoranthene	U	0.94	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(g,h,i)perylene	U	0.68	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(a)pyrene	U	0.68	11.	ug/l	8270C	05/23/08	1.05	10
Benzyl alcohol	U	1.5	11.	ug/l	8270C	05/23/08	1.05	20
Bis(2-chlorethoxy)methane	U	2.4	11.	ug/l	8270C	05/23/08	1.05	10
Bis(2-chloroethyl)ether	U	2.0	11.	ug/l	8270C	05/23/08	1.05	10
4-Bromophenyl-phenylether	U	1.4	11.	ug/l	8270C	05/23/08	1.05	10
4-Chloroaniline	U	2.7	11.	ug/l	8270C	05/23/08	1.05	20
2-Chloronaphthalene	U	1.8	11.	ug/l	8270C	05/23/08	1.05	10
4-Chlorophenyl-phenylether	U	1.9	11.	ug/l	8270C	05/23/08	1.05	10
Chrysene	U	0.84	11.	ug/l	8270C	05/23/08	1.05	10
Dibenz(a,h)anthracene	U	0.74	11.	ug/l	8270C	05/23/08	1.05	10
Dibenzofuran	U	1.6	11.	ug/l	8270C	05/23/08	1.05	10
3,3-Dichlorobenzidine	U	0.83	11.	ug/l	8270C	05/23/08	1.05	20
2,4-Dinitrotoluene	U	1.1	11.	ug/l	8270C	05/23/08	1.05	10
2,6-Dinitrotoluene	U	1.5	11.	ug/l	8270C	05/23/08	1.05	10
Fluoranthene	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Fluorene	U	1.6	11.	ug/l	8270C	05/23/08	1.05	10
Hexachlorobenzene	U	1.3	11.	ug/l	8270C	05/23/08	1.05	10
Hexachloro-1,3-butadiene	U	2.5	11.	ug/l	8270C	05/23/08	1.05	10
Hexachlorocyclopentadiene	U	1.7	11.	ug/l	8270C	05/23/08	1.05	10
Hexachloroethane	U	1.9	11.	ug/l	8270C	05/23/08	1.05	10
Indeno(1,2,3-cd)pyrene	U	0.76	11.	ug/l	8270C	05/23/08	1.05	10
Isophorone	U	2.9	11.	ug/l	8270C	05/23/08	1.05	10
2-Methylnaphthalene	U	2.1	11.	ug/l	8270C	05/23/08	1.05	10
Naphthalene	U	2.2	11.	ug/l	8270C	05/23/08	1.05	10
2-Nitroaniline	U	1.5	11.	ug/l	8270C	05/23/08	1.05	50

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SWSL = Solid Waste Section Limit
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-04

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-4R

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 15:20

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
3-Nitroaniline	U	1.2	11.	ug/l	8270C	05/23/08	1.05	50
4-Nitroaniline	U	1.7	11.	ug/l	8270C	05/23/08	1.05	20
Nitrobenzene	U	2.2	11.	ug/l	8270C	05/23/08	1.05	10
n-Nitrosodiphenylamine	U	1.8	11.	ug/l	8270C	05/23/08	1.05	10
n-Nitrosodi-n-propylamine	U	2.5	11.	ug/l	8270C	05/23/08	1.05	10
Phenanthrene	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Benzylbutyl phthalate	U	1.1	11.	ug/l	8270C	05/23/08	1.05	10
Bis(2-ethylhexyl)phthalate	U	1.4	11.	ug/l	8270C	05/23/08	1.05	15
Di-n-butyl phthalate	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Diethyl phthalate	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Dimethyl phthalate	U	1.4	11.	ug/l	8270C	05/23/08	1.05	10
Di-n-octyl phthalate	U	0.99	11.	ug/l	8270C	05/23/08	1.05	10
Pyrene	U	0.81	11.	ug/l	8270C	05/23/08	1.05	10
1,2,4-Trichlorobenzene	U	2.0	11.	ug/l	8270C	05/23/08	1.05	10
Acid Extractables								
4-Chloro-3-methylphenol	U	1.9	11.	ug/l	8270C	05/23/08	1.05	20
2-Chlorophenol	U	1.3	11.	ug/l	8270C	05/23/08	1.05	10
2-Methylphenol	U	1.3	11.	ug/l	8270C	05/23/08	1.05	10
3&4-methyl phenol	U	1.1	11.	ug/l	8270C	05/23/08	1.05	10
2,4-Dichlorophenol	U	2.1	11.	ug/l	8270C	05/23/08	1.05	50
2,4-Dimethylphenol	U	2.2	11.	ug/l	8270C	05/23/08	1.05	10
4,6-Dinitro-2-methylphenol	U	2.3	11.	ug/l	8270C	05/23/08	1.05	50
2,4-Dinitrophenol	U	1.3	11.	ug/l	8270C	05/23/08	1.05	50
2-Nitrophenol	U	2.2	11.	ug/l	8270C	05/23/08	1.05	10
4-Nitrophenol	U	0.80	11.	ug/l	8270C	05/23/08	1.05	50
Pentachlorophenol	U	2.5	11.	ug/l	8270C	05/23/08	1.05	25
Phenol	U	0.62	11.	ug/l	8270C	05/23/08	1.05	10
2,4,5-Trichlorophenol	U	1.8	11.	ug/l	8270C	05/23/08	1.05	10
2,4,6-Trichlorophenol	U	2.1	11.	ug/l	8270C	05/23/08	1.05	10
Additional Semi-Volatiles								
Acetophenone	U	3.5	11.	ug/l	8270C	05/23/08	1.05	10
2-Acetylaminofluorene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
4-Aminobiphenyl	U	3.5	11.	ug/l	8270C	05/28/08	1.05	15
Chlorobenzilate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Diallate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Ethyl methanesulfonate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Famphur	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Hexachloropropene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Isodrin	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Isosafrole	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Kepone	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Methapyrilene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	100

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-04

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-4R

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 15:20

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
3-Methylcholanthrene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Methyl methanesulfonate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Methyl parathion	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
1,4-Naphthoquinone	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
1-Naphthylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
2-Naphthylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
n-Nitrosodi-n-butylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
n-Nitrosodiethylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
n-Nitrosodimethylamine	U	1.4	11.	ug/l	8270C	05/23/08	1.05	10
n-Nitrosomethylethylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
n-Nitrosopiperidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
n-Nitrosopyrrolidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
5-Nitro-o-toluidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Parathion	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Pentachlorobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Pentachloronitrobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Phenacetin	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Phorate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Pronamide	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Dimethoate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
P-(Dimethylamino) Azobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Dimethylbenz (A) Anthracene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
3,3-Dimethylbenzidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
1,3-Dinitrobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Diphenylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Disulfoton	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Safrole	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Thionazin	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
o-Toluidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
O,O,O-Triethyl phosphorothioate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
sym-Trinitrobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
1,2,4,5-Tetrachlorobenzene	U	3.5	11.	ug/l	8270C	05/23/08	1.05	10
2,6-Dichlorophenol	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
2,3,4,6-Tetrachlorophenol	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Surrogate Recovery								
Nitrobenzene-d5	58.9			% Rec.	8270C	05/23/08	1.05	
2-Fluorobiphenyl	62.5			% Rec.	8270C	05/23/08	1.05	
p-Terphenyl-d14	70.8			% Rec.	8270C	05/23/08	1.05	
Phenol-d5	16.6			% Rec.	8270C	05/23/08	1.05	
2-Fluorophenol	21.3			% Rec.	8270C	05/23/08	1.05	
2,4,6-Tribromophenol	46.8			% Rec.	8270C	05/23/08	1.05	

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-05

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-5

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 10:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Cyanide	1.3	1.2	5.0	ug/l	9012B	05/29/08	1	10
Sulfide	21.	16.	50.	ug/l	4500-S2	05/27/08	1	1000
Antimony	U	0.22	1.0	ug/l	6020	05/23/08	1	6
Arsenic	1.9	0.15	1.0	ug/l	6020	05/23/08	1	10
Beryllium	U	0.24	1.0	ug/l	6020	05/23/08	1	1
Cadmium	U	0.24	0.50	ug/l	6020	05/23/08	1	1
Copper	1.7	0.45	1.0	ug/l	6020	05/23/08	1	10
Selenium	U	0.43	1.0	ug/l	6020	05/23/08	1	10
Thallium	U	0.090	1.0	ug/l	6020	05/23/08	1	5.5
Zinc	54.	3.0	10.	ug/l	6020	05/23/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	05/25/08	1	.2
Barium	1300	1.0	5.0	ug/l	6010B	05/23/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	05/23/08	1	10
Cobalt	U	1.1	10.	ug/l	6010B	05/23/08	1	10
Lead	U	2.4	5.0	ug/l	6010B	05/23/08	1	5
Nickel	U	9.8	20.	ug/l	6010B	05/23/08	1	50
Silver	U	2.5	10.	ug/l	6010B	05/23/08	1	10
Tin	U	7.6	20.	ug/l	6010B	05/23/08	1	100
Vanadium	U	2.9	10.	ug/l	6010B	05/23/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	05/26/08	1	100
Acrolein	U	14.	50.	ug/l	8260B	05/26/08	1	53
Acrylonitrile	U	1.7	10.	ug/l	8260B	05/26/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	05/26/08	1	3
Bromoform	U	0.51	1.0	ug/l	8260B	05/26/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	05/26/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	05/26/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	05/26/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	05/26/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	05/26/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	05/26/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	05/26/08	1	1
1,2-Dibromoethane	U	0.48	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.48	5.0	ug/l	8260B	05/26/08	1	1

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-05

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-5

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 10:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Dibromomethane	U	0.28	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	5
1,3-Dichlorobenzene	U	0.19	1.0	ug/l	8260B	05/26/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	05/26/08	1	1
Dichlorodifluoromethane	U	0.54	5.0	ug/l	8260B	05/26/08	1	5
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	05/26/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	05/26/08	1	5
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	05/26/08	1	1
1,3-Dichloropropane	U	0.23	1.0	ug/l	8260B	05/26/08	1	1
2,2-Dichloropropane	U	0.25	1.0	ug/l	8260B	05/26/08	1	15
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	05/26/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	05/26/08	1	1
1,1-Dichloropropene	U	0.22	1.0	ug/l	8260B	05/26/08	1	5
Ethylbenzene	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	05/26/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	05/26/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	05/26/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	05/26/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	05/26/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	05/26/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	05/26/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	05/26/08	1	1
1,2,4-Trichlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	10
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	05/26/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	05/26/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	05/26/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	05/26/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	05/26/08	1	4
Acetonitrile	U	11.	50.	ug/l	8260B	05/26/08	1	200
Allyl chloride	U	0.85	5.0	ug/l	8260B	05/26/08	1	10
Chloroprene	U	7.0	50.	ug/l	8260B	05/26/08	1	20
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	05/26/08	1	100
Ethyl methacrylate	U	1.0	5.0	ug/l	8260B	05/26/08	1	10
Isobutanol	U	1.4	100	ug/l	8260B	05/26/08	1	100

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-05

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-5

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 10:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Methacrylonitrile	U	11.	50.	ug/l	8260B	05/26/08	1	100
Methyl methacrylate	U	1.3	50.	ug/l	8260B	05/26/08	1	30
Propionitrile	U	7.7	50.	ug/l	8260B	05/26/08	1	150
Surrogate Recovery								
Toluene-d8	106.		0.00100	% Rec.	8260B	05/26/08	1	
Dibromofluoromethane	113.		0.00100	% Rec.	8260B	05/26/08	1	
4-Bromofluorobenzene	92.8		0.00100	% Rec.	8260B	05/26/08	1	
Pesticide/PCBs								
Aldrin	U	0.025	0.050	ug/l	8081/80	06/01/08	1	.05
Alpha BHC	U	0.025	0.050	ug/l	8081/80	06/01/08	1	.05
Beta BHC	U	0.023	0.050	ug/l	8081/80	06/01/08	1	.05
Delta BHC	U	0.0090	0.050	ug/l	8081/80	06/01/08	1	.05
Gamma BHC	U	0.033	0.050	ug/l	8081/80	06/01/08	1	.05
Chlordane	U	0.14	0.50	ug/l	8081/80	06/01/08	1	.5
4,4-DDD	U	0.026	0.050	ug/l	8081/80	06/01/08	1	.1
4,4-DDE	U	0.025	0.050	ug/l	8081/80	06/01/08	1	.1
4,4-DDT	U	0.043	0.10	ug/l	8081/80	06/01/08	1	.1
Dieldrin	U	0.026	0.050	ug/l	8081/80	06/01/08	1	.075
Endosulfan I	U	0.016	0.050	ug/l	8081/80	06/01/08	1	.1
Endosulfan II	U	0.015	0.050	ug/l	8081/80	06/01/08	1	.1
Endosulfan sulfate	U	0.027	0.050	ug/l	8081/80	06/01/08	1	.1
Endrin	U	0.025	0.050	ug/l	8081/80	06/01/08	1	.1
Endrin aldehyde	U	0.024	0.050	ug/l	8081/80	06/01/08	1	.1
Heptachlor	U	0.031	0.050	ug/l	8081/80	06/01/08	1	.05
Heptachlor epoxide	U	0.027	0.050	ug/l	8081/80	06/01/08	1	.075
Hexachlorobenzene	U	0.021	0.50	ug/l	8081/80	06/01/08	1	10
Methoxychlor	U	0.035	0.10	ug/l	8081/80	06/01/08	1	1
Toxaphene	U	0.64	1.0	ug/l	8081/80	06/01/08	1	1.5
PCB 1016	U	0.077	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1221	U	0.16	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1232	U	0.18	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1242	U	0.099	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1248	U	0.039	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1254	U	0.12	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1260	U	0.16	0.50	ug/l	8081/80	05/24/08	1	2
Pest/PCBs Surrogates								
Decachlorobiphenyl	95.0			% Rec.	8081/80	05/24/08	1	
Tetrachloro-m-xylene	45.0			% Rec.	8081/80	05/24/08	1	
Herbicides								
2,4-D	U	0.14	2.0	ug/l	8151	05/23/08	1	2

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SWSL = Solid Waste Section Limit
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-05

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-5

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 10:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
2,4,5-T	U	0.18	2.0	ug/l	8151	05/23/08	1	2
2,4,5-TP (Silvex)	U	0.22	2.0	ug/l	8151	05/23/08	1	2
Dinoseb	U	0.11	2.0	ug/l	8151	05/23/08	1	2
Surrogate Recovery								
2,4-Dichlorophenyl Acetic Acid	95.4			% Rec.	8151	05/23/08	1	
Ethylene Dibromide	U	0.0057	0.010	ug/l	8011	05/27/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.0063	0.020	ug/l	8011	05/27/08	1	1
Base/Neutral Extractables								
Acenaphthene	U	1.8	10.	ug/l	8270C	05/22/08	1	10
Acenaphthylene	U	1.9	10.	ug/l	8270C	05/22/08	1	10
Anthracene	U	1.1	10.	ug/l	8270C	05/22/08	1	10
Benzo(a)anthracene	U	0.70	10.	ug/l	8270C	05/22/08	1	10
Benzo(b)fluoranthene	U	0.77	10.	ug/l	8270C	05/22/08	1	10
Benzo(k)fluoranthene	U	0.90	10.	ug/l	8270C	05/22/08	1	10
Benzo(g,h,i)perylene	U	0.65	10.	ug/l	8270C	05/22/08	1	10
Benzo(a)pyrene	U	0.65	10.	ug/l	8270C	05/22/08	1	10
Benzyl alcohol	U	1.4	10.	ug/l	8270C	05/22/08	1	20
Bis(2-chlorethoxy)methane	U	2.3	10.	ug/l	8270C	05/22/08	1	10
Bis(2-chloroethyl)ether	U	1.9	10.	ug/l	8270C	05/22/08	1	10
4-Bromophenyl-phenylether	U	1.3	10.	ug/l	8270C	05/22/08	1	10
4-Chloroaniline	U	2.6	10.	ug/l	8270C	05/22/08	1	20
2-Chloronaphthalene	U	1.7	10.	ug/l	8270C	05/22/08	1	10
4-Chlorophenyl-phenylether	U	1.8	10.	ug/l	8270C	05/22/08	1	10
Chrysene	U	0.80	10.	ug/l	8270C	05/22/08	1	10
Dibenz(a,h)anthracene	U	0.70	10.	ug/l	8270C	05/22/08	1	10
Dibenzofuran	U	1.5	10.	ug/l	8270C	05/22/08	1	10
3,3-Dichlorobenzidine	U	0.79	10.	ug/l	8270C	05/22/08	1	20
2,4-Dinitrotoluene	U	1.1	10.	ug/l	8270C	05/22/08	1	10
2,6-Dinitrotoluene	U	1.4	10.	ug/l	8270C	05/22/08	1	10
Fluoranthene	U	1.2	10.	ug/l	8270C	05/22/08	1	10
Fluorene	U	1.5	10.	ug/l	8270C	05/22/08	1	10
Hexachlorobenzene	U	1.2	10.	ug/l	8270C	05/22/08	1	10
Hexachloro-1,3-butadiene	U	2.4	10.	ug/l	8270C	05/22/08	1	10
Hexachlorocyclopentadiene	U	1.6	10.	ug/l	8270C	05/22/08	1	10
Hexachloroethane	U	1.8	10.	ug/l	8270C	05/22/08	1	10
Indeno(1,2,3-cd)pyrene	U	0.72	10.	ug/l	8270C	05/22/08	1	10
Isophorone	U	2.8	10.	ug/l	8270C	05/22/08	1	10
2-Methylnaphthalene	U	2.0	10.	ug/l	8270C	05/22/08	1	10
Naphthalene	U	2.1	10.	ug/l	8270C	05/22/08	1	10
2-Nitroaniline	U	1.5	10.	ug/l	8270C	05/22/08	1	50

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-05

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-5

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 10:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
3-Nitroaniline	U	1.2	10.	ug/l	8270C	05/22/08	1	50
4-Nitroaniline	U	1.6	10.	ug/l	8270C	05/22/08	1	20
Nitrobenzene	U	2.1	10.	ug/l	8270C	05/22/08	1	10
n-Nitrosodiphenylamine	U	1.7	10.	ug/l	8270C	05/22/08	1	10
n-Nitrosodi-n-propylamine	U	2.4	10.	ug/l	8270C	05/22/08	1	10
Phenanthrene	U	1.1	10.	ug/l	8270C	05/22/08	1	10
Benzylbutyl phthalate	U	1.0	10.	ug/l	8270C	05/22/08	1	10
Bis(2-ethylhexyl)phthalate	U	1.3	10.	ug/l	8270C	05/22/08	1	15
Di-n-butyl phthalate	U	1.1	10.	ug/l	8270C	05/22/08	1	10
Diethyl phthalate	U	1.1	10.	ug/l	8270C	05/22/08	1	10
Dimethyl phthalate	U	1.3	10.	ug/l	8270C	05/22/08	1	10
Di-n-octyl phthalate	U	0.94	10.	ug/l	8270C	05/22/08	1	10
Pyrene	U	0.77	10.	ug/l	8270C	05/22/08	1	10
1,2,4-Trichlorobenzene	U	2.0	10.	ug/l	8270C	05/22/08	1	10
Acid Extractables								
4-Chloro-3-methylphenol	U	1.8	10.	ug/l	8270C	05/22/08	1	20
2-Chlorophenol	U	1.3	10.	ug/l	8270C	05/22/08	1	10
2-Methylphenol	U	1.3	10.	ug/l	8270C	05/22/08	1	10
3&4-methyl phenol	U	1.1	10.	ug/l	8270C	05/22/08	1	10
2,4-Dichlorophenol	U	2.0	10.	ug/l	8270C	05/22/08	1	50
2,4-Dimethylphenol	U	2.1	10.	ug/l	8270C	05/22/08	1	10
4,6-Dinitro-2-methylphenol	U	2.2	10.	ug/l	8270C	05/22/08	1	50
2,4-Dinitrophenol	U	1.2	10.	ug/l	8270C	05/22/08	1	50
2-Nitrophenol	U	2.1	10.	ug/l	8270C	05/22/08	1	10
4-Nitrophenol	U	0.76	10.	ug/l	8270C	05/22/08	1	50
Pentachlorophenol	U	2.4	10.	ug/l	8270C	05/22/08	1	25
Phenol	U	0.59	10.	ug/l	8270C	05/22/08	1	10
2,4,5-Trichlorophenol	U	1.7	10.	ug/l	8270C	05/22/08	1	10
2,4,6-Trichlorophenol	U	2.0	10.	ug/l	8270C	05/22/08	1	10
Additional Semi-Volatiles								
Acetophenone	U	3.3	10.	ug/l	8270C	05/22/08	1	10
2-Acetylaminofluorene	U	3.3	10.	ug/l	8270C	05/28/08	1	20
4-Aminobiphenyl	U	3.3	10.	ug/l	8270C	05/28/08	1	15
Chlorobenzilate	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Diallate	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Ethyl methanesulfonate	U	3.3	10.	ug/l	8270C	05/28/08	1	20
Famphur	U	3.3	10.	ug/l	8270C	05/28/08	1	20
Hexachloropropene	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Isodrin	U	3.3	10.	ug/l	8270C	05/28/08	1	20
Isosafrole	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Kepone	U	3.3	10.	ug/l	8270C	05/28/08	1	20
Methapyrilene	U	3.3	10.	ug/l	8270C	05/28/08	1	100

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-05

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-5

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 10:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
3-Methylcholanthrene	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Methyl methanesulfonate	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Methyl parathion	U	3.3	10.	ug/l	8270C	05/28/08	1	10
1,4-Naphthoquinone	U	3.3	10.	ug/l	8270C	05/28/08	1	10
1-Naphthylamine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
2-Naphthylamine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
n-Nitrosodi-n-butylamine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
n-Nitrosodiethylamine	U	3.3	10.	ug/l	8270C	05/28/08	1	20
n-Nitrosodimethylamine	U	1.3	10.	ug/l	8270C	05/22/08	1	10
n-Nitrosomethylethylamine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
n-Nitrosopiperidine	U	3.3	10.	ug/l	8270C	05/28/08	1	20
n-Nitrosopyrrolidine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
5-Nitro-o-toluidine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Parathion	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Pentachlorobenzene	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Pentachloronitrobenzene	U	3.3	10.	ug/l	8270C	05/28/08	1	20
Phenacetin	U	3.3	10.	ug/l	8270C	05/28/08	1	20
Phorate	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Pronamide	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Dimethoate	U	3.3	10.	ug/l	8270C	05/28/08	1	20
P-(Dimethylamino) Azobenzene	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Dimethylbenz (A) Anthracene	U	3.3	10.	ug/l	8270C	05/28/08	1	10
3,3-Dimethylbenzidine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
1,3-Dinitrobenzene	U	3.3	10.	ug/l	8270C	05/28/08	1	20
Diphenylamine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Disulfoton	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Safrole	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Thionazin	U	3.3	10.	ug/l	8270C	05/28/08	1	20
o-Toluidine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
O,O,O-Triethyl phosphorothioate	U	3.3	10.	ug/l	8270C	05/28/08	1	10
sym-Trinitrobenzene	U	3.3	10.	ug/l	8270C	05/28/08	1	10
1,2,4,5-Tetrachlorobenzene	U	3.3	10.	ug/l	8270C	05/22/08	1	10
2,6-Dichlorophenol	U	3.3	10.	ug/l	8270C	05/28/08	1	10
2,3,4,6-Tetrachlorophenol	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Surrogate Recovery								
Nitrobenzene-d5	64.4			% Rec.	8270C	05/22/08	1	
2-Fluorobiphenyl	68.1			% Rec.	8270C	05/22/08	1	
p-Terphenyl-d14	93.8			% Rec.	8270C	05/22/08	1	
Phenol-d5	27.3			% Rec.	8270C	05/22/08	1	
2-Fluorophenol	40.1			% Rec.	8270C	05/22/08	1	
2,4,6-Tribromophenol	72.3			% Rec.	8270C	05/22/08	1	

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-06

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-6R

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 12:45

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Cyanide	U	1.2	5.0	ug/l	9012B	06/05/08	1	10
Sulfide	18.	16.	50.	ug/l	4500-S2	05/27/08	1	1000
Antimony	U	0.22	1.0	ug/l	6020	05/23/08	1	6
Arsenic	0.36	0.15	1.0	ug/l	6020	05/23/08	1	10
Beryllium	U	0.24	1.0	ug/l	6020	05/23/08	1	1
Cadmium	U	0.24	0.50	ug/l	6020	05/23/08	1	1
Copper	2.0	0.45	1.0	ug/l	6020	05/23/08	1	10
Selenium	0.96	0.43	1.0	ug/l	6020	05/23/08	1	10
Thallium	U	0.090	1.0	ug/l	6020	05/23/08	1	5.5
Zinc	23.	3.0	10.	ug/l	6020	05/23/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	05/25/08	1	.2
Barium	430	1.0	5.0	ug/l	6010B	05/23/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	05/23/08	1	10
Cobalt	17.	1.1	10.	ug/l	6010B	05/23/08	1	10
Lead	U	2.4	5.0	ug/l	6010B	05/23/08	1	5
Nickel	17.	9.8	20.	ug/l	6010B	05/23/08	1	50
Silver	U	2.5	10.	ug/l	6010B	05/23/08	1	10
Tin	U	7.6	20.	ug/l	6010B	05/23/08	1	100
Vanadium	U	2.9	10.	ug/l	6010B	05/23/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	05/26/08	1	100
Acrolein	U	14.	50.	ug/l	8260B	05/26/08	1	53
Acrylonitrile	U	1.7	10.	ug/l	8260B	05/26/08	1	200
Benzene	4.3	0.29	1.0	ug/l	8260B	05/26/08	1	1
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	05/26/08	1	3
Bromoform	U	0.51	1.0	ug/l	8260B	05/26/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	05/26/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	05/26/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	05/26/08	1	1
Chlorobenzene	0.73	0.26	1.0	ug/l	8260B	05/26/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	05/26/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	05/26/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	05/26/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	05/26/08	1	1
1,2-Dibromoethane	U	0.48	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.48	5.0	ug/l	8260B	05/26/08	1	1

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-06

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-6R

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 12:45

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Dibromomethane	U	0.28	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dichlorobenzene	0.64	0.29	1.0	ug/l	8260B	05/26/08	1	5
1,3-Dichlorobenzene	U	0.19	1.0	ug/l	8260B	05/26/08	1	5
1,4-Dichlorobenzene	4.6	0.30	1.0	ug/l	8260B	05/26/08	1	1
Dichlorodifluoromethane	U	0.54	5.0	ug/l	8260B	05/26/08	1	5
1,1-Dichloroethane	4.2	0.31	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	05/26/08	1	5
cis-1,2-Dichloroethene	140	0.38	1.0	ug/l	8260B	05/26/08	1	5
trans-1,2-Dichloroethene	5.7	0.30	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloropropane	3.3	0.52	1.0	ug/l	8260B	05/26/08	1	1
1,3-Dichloropropane	U	0.23	1.0	ug/l	8260B	05/26/08	1	1
2,2-Dichloropropane	U	0.25	1.0	ug/l	8260B	05/26/08	1	15
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	05/26/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	05/26/08	1	1
1,1-Dichloropropene	U	0.22	1.0	ug/l	8260B	05/26/08	1	5
Ethylbenzene	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	05/26/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	05/26/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	05/26/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	05/26/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	05/26/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	05/26/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	05/26/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	05/26/08	1	1
1,2,4-Trichlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	10
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	05/26/08	1	5
Trichloroethene	1.6	0.37	1.0	ug/l	8260B	05/26/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	05/26/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	05/26/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	05/26/08	1	50
Vinyl chloride	21.	0.27	1.0	ug/l	8260B	05/26/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	05/26/08	1	4
Acetonitrile	U	11.	50.	ug/l	8260B	05/26/08	1	200
Allyl chloride	U	0.85	5.0	ug/l	8260B	05/26/08	1	10
Chloroprene	U	7.0	50.	ug/l	8260B	05/26/08	1	20
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	05/26/08	1	100
Ethyl methacrylate	U	1.0	5.0	ug/l	8260B	05/26/08	1	10
Isobutanol	U	1.4	100	ug/l	8260B	05/26/08	1	100

U = ND (Not Detected)
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-06

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-6R

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 12:45

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Methacrylonitrile	U	11.	50.	ug/l	8260B	05/26/08	1	100
Methyl methacrylate	U	1.3	50.	ug/l	8260B	05/26/08	1	30
Propionitrile	U	7.7	50.	ug/l	8260B	05/26/08	1	150
Surrogate Recovery								
Toluene-d8	105.		0.00100	% Rec.	8260B	05/26/08	1	
Dibromofluoromethane	109.		0.00100	% Rec.	8260B	05/26/08	1	
4-Bromofluorobenzene	93.7		0.00100	% Rec.	8260B	05/26/08	1	
Pesticide/PCBs								
Aldrin	U	0.025	0.050	ug/l	8081/80	06/01/08	1	.05
Alpha BHC	U	0.025	0.050	ug/l	8081/80	06/01/08	1	.05
Beta BHC	U	0.023	0.050	ug/l	8081/80	06/01/08	1	.05
Delta BHC	U	0.0090	0.050	ug/l	8081/80	06/01/08	1	.05
Gamma BHC	U	0.033	0.050	ug/l	8081/80	06/01/08	1	.05
Chlordane	U	0.14	0.50	ug/l	8081/80	06/01/08	1	.5
4,4-DDD	U	0.026	0.050	ug/l	8081/80	06/01/08	1	.1
4,4-DDE	U	0.025	0.050	ug/l	8081/80	06/01/08	1	.1
4,4-DDT	U	0.043	0.10	ug/l	8081/80	06/01/08	1	.1
Dieldrin	U	0.026	0.050	ug/l	8081/80	06/01/08	1	.075
Endosulfan I	U	0.016	0.050	ug/l	8081/80	06/01/08	1	.1
Endosulfan II	U	0.015	0.050	ug/l	8081/80	06/01/08	1	.1
Endosulfan sulfate	U	0.027	0.050	ug/l	8081/80	06/01/08	1	.1
Endrin	U	0.025	0.050	ug/l	8081/80	06/01/08	1	.1
Endrin aldehyde	U	0.024	0.050	ug/l	8081/80	06/01/08	1	.1
Heptachlor	U	0.031	0.050	ug/l	8081/80	06/01/08	1	.05
Heptachlor epoxide	U	0.027	0.050	ug/l	8081/80	06/01/08	1	.075
Hexachlorobenzene	U	0.021	0.50	ug/l	8081/80	06/01/08	1	10
Methoxychlor	U	0.035	0.10	ug/l	8081/80	06/01/08	1	1
Toxaphene	U	0.64	1.0	ug/l	8081/80	06/01/08	1	1.5
PCB 1016	U	0.077	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1221	U	0.16	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1232	U	0.18	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1242	U	0.099	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1248	U	0.039	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1254	U	0.12	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1260	U	0.16	0.50	ug/l	8081/80	05/24/08	1	2
Pest/PCBs Surrogates								
Decachlorobiphenyl	55.0			% Rec.	8081/80	05/24/08	1	
Tetrachloro-m-xylene	35.0			% Rec.	8081/80	05/24/08	1	
Herbicides								
2,4-D	U	0.14	2.0	ug/l	8151	05/23/08	1	2

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-06

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-6R

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 12:45

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
2,4,5-T	U	0.18	2.0	ug/l	8151	05/23/08	1	2
2,4,5-TP (Silvex)	U	0.22	2.0	ug/l	8151	05/23/08	1	2
Dinoseb	U	0.11	2.0	ug/l	8151	05/23/08	1	2
Surrogate Recovery								
2,4-Dichlorophenyl Acetic Acid	101.			% Rec.	8151	05/23/08	1	
Ethylene Dibromide	U	0.0057	0.010	ug/l	8011	05/27/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.0063	0.020	ug/l	8011	05/27/08	1	1
Base/Neutral Extractables								
Acenaphthene	U	1.8	11.	ug/l	8270C	05/23/08	1.05	10
Acenaphthylene	U	2.0	11.	ug/l	8270C	05/23/08	1.05	10
Anthracene	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(a)anthracene	U	0.74	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(b)fluoranthene	U	0.81	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(k)fluoranthene	U	0.94	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(g,h,i)perylene	U	0.68	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(a)pyrene	U	0.68	11.	ug/l	8270C	05/23/08	1.05	10
Benzyl alcohol	U	1.5	11.	ug/l	8270C	05/23/08	1.05	20
Bis(2-chlorethoxy)methane	U	2.4	11.	ug/l	8270C	05/23/08	1.05	10
Bis(2-chloroethyl)ether	U	2.0	11.	ug/l	8270C	05/23/08	1.05	10
4-Bromophenyl-phenylether	U	1.4	11.	ug/l	8270C	05/23/08	1.05	10
4-Chloroaniline	U	2.7	11.	ug/l	8270C	05/23/08	1.05	20
2-Chloronaphthalene	U	1.8	11.	ug/l	8270C	05/23/08	1.05	10
4-Chlorophenyl-phenylether	U	1.9	11.	ug/l	8270C	05/23/08	1.05	10
Chrysene	U	0.84	11.	ug/l	8270C	05/23/08	1.05	10
Dibenz(a,h)anthracene	U	0.74	11.	ug/l	8270C	05/23/08	1.05	10
Dibenzofuran	U	1.6	11.	ug/l	8270C	05/23/08	1.05	10
3,3-Dichlorobenzidine	U	0.83	11.	ug/l	8270C	05/23/08	1.05	20
2,4-Dinitrotoluene	U	1.1	11.	ug/l	8270C	05/23/08	1.05	10
2,6-Dinitrotoluene	U	1.5	11.	ug/l	8270C	05/23/08	1.05	10
Fluoranthene	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Fluorene	U	1.6	11.	ug/l	8270C	05/23/08	1.05	10
Hexachlorobenzene	U	1.3	11.	ug/l	8270C	05/23/08	1.05	10
Hexachloro-1,3-butadiene	U	2.5	11.	ug/l	8270C	05/23/08	1.05	10
Hexachlorocyclopentadiene	U	1.7	11.	ug/l	8270C	05/23/08	1.05	10
Hexachloroethane	U	1.9	11.	ug/l	8270C	05/23/08	1.05	10
Indeno(1,2,3-cd)pyrene	U	0.76	11.	ug/l	8270C	05/23/08	1.05	10
Isophorone	U	2.9	11.	ug/l	8270C	05/23/08	1.05	10
2-Methylnaphthalene	U	2.1	11.	ug/l	8270C	05/23/08	1.05	10
Naphthalene	U	2.2	11.	ug/l	8270C	05/23/08	1.05	10
2-Nitroaniline	U	1.5	11.	ug/l	8270C	05/23/08	1.05	50

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-06

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-6R

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 12:45

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
3-Nitroaniline	U	1.2	11.	ug/l	8270C	05/23/08	1.05	50
4-Nitroaniline	U	1.7	11.	ug/l	8270C	05/23/08	1.05	20
Nitrobenzene	U	2.2	11.	ug/l	8270C	05/23/08	1.05	10
n-Nitrosodiphenylamine	U	1.8	11.	ug/l	8270C	05/23/08	1.05	10
n-Nitrosodi-n-propylamine	U	2.5	11.	ug/l	8270C	05/23/08	1.05	10
Phenanthrene	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Benzylbutyl phthalate	U	1.1	11.	ug/l	8270C	05/23/08	1.05	10
Bis(2-ethylhexyl)phthalate	U	1.4	11.	ug/l	8270C	05/23/08	1.05	15
Di-n-butyl phthalate	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Diethyl phthalate	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Dimethyl phthalate	U	1.4	11.	ug/l	8270C	05/23/08	1.05	10
Di-n-octyl phthalate	U	0.99	11.	ug/l	8270C	05/23/08	1.05	10
Pyrene	U	0.81	11.	ug/l	8270C	05/23/08	1.05	10
1,2,4-Trichlorobenzene	U	2.0	11.	ug/l	8270C	05/23/08	1.05	10
Acid Extractables								
4-Chloro-3-methylphenol	U	1.9	11.	ug/l	8270C	05/23/08	1.05	20
2-Chlorophenol	U	1.3	11.	ug/l	8270C	05/23/08	1.05	10
2-Methylphenol	U	1.3	11.	ug/l	8270C	05/23/08	1.05	10
3&4-methyl phenol	U	1.1	11.	ug/l	8270C	05/23/08	1.05	10
2,4-Dichlorophenol	U	2.1	11.	ug/l	8270C	05/23/08	1.05	50
2,4-Dimethylphenol	U	2.2	11.	ug/l	8270C	05/23/08	1.05	10
4,6-Dinitro-2-methylphenol	U	2.3	11.	ug/l	8270C	05/23/08	1.05	50
2,4-Dinitrophenol	U	1.3	11.	ug/l	8270C	05/23/08	1.05	50
2-Nitrophenol	U	2.2	11.	ug/l	8270C	05/23/08	1.05	10
4-Nitrophenol	U	0.80	11.	ug/l	8270C	05/23/08	1.05	50
Pentachlorophenol	U	2.5	11.	ug/l	8270C	05/23/08	1.05	25
Phenol	U	0.62	11.	ug/l	8270C	05/23/08	1.05	10
2,4,5-Trichlorophenol	U	1.8	11.	ug/l	8270C	05/23/08	1.05	10
2,4,6-Trichlorophenol	U	2.1	11.	ug/l	8270C	05/23/08	1.05	10
Additional Semi-Volatiles								
Acetophenone	U	3.5	11.	ug/l	8270C	05/23/08	1.05	10
2-Acetylaminofluorene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
4-Aminobiphenyl	U	3.5	11.	ug/l	8270C	05/28/08	1.05	15
Chlorobenzilate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Diallate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Ethyl methanesulfonate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Famphur	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Hexachloropropene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Isodrin	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Isosafrole	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Kepone	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Methapyrilene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	100

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REPORT OF ANALYSIS

Jerry Paul
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3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-06

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-6R

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 12:45

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
3-Methylcholanthrene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Methyl methanesulfonate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Methyl parathion	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
1,4-Naphthoquinone	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
1-Naphthylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
2-Naphthylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
n-Nitrosodi-n-butylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
n-Nitrosodiethylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
n-Nitrosodimethylamine	U	1.4	11.	ug/l	8270C	05/23/08	1.05	10
n-Nitrosomethylethylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
n-Nitrosopiperidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
n-Nitrosopyrrolidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
5-Nitro-o-toluidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Parathion	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Pentachlorobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Pentachloronitrobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Phenacetin	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Phorate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Pronamide	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Dimethoate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
P-(Dimethylamino) Azobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Dimethylbenz (A) Anthracene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
3,3-Dimethylbenzidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
1,3-Dinitrobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Diphenylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Disulfoton	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Safrole	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Thionazin	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
o-Toluidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
O,O,O-Triethyl phosphorothioate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
sym-Trinitrobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
1,2,4,5-Tetrachlorobenzene	U	3.5	11.	ug/l	8270C	05/23/08	1.05	10
2,6-Dichlorophenol	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
2,3,4,6-Tetrachlorophenol	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Surrogate Recovery								
Nitrobenzene-d5	61.7			% Rec.	8270C	05/23/08	1.05	
2-Fluorobiphenyl	67.5			% Rec.	8270C	05/23/08	1.05	
p-Terphenyl-d14	71.8			% Rec.	8270C	05/23/08	1.05	
Phenol-d5	20.8			% Rec.	8270C	05/23/08	1.05	
2-Fluorophenol	12.2			% Rec.	8270C	05/23/08	1.05	
2,4,6-Tribromophenol	32.4			% Rec.	8270C	05/23/08	1.05	

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-07

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-7R

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 17:30

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Cyanide	U	1.2	5.0	ug/l	9012B	05/29/08	1	10
Sulfide	22.	16.	50.	ug/l	4500-S2	05/27/08	1	1000
Antimony	U	0.22	1.0	ug/l	6020	05/23/08	1	6
Arsenic	0.72	0.15	1.0	ug/l	6020	05/23/08	1	10
Beryllium	U	0.24	1.0	ug/l	6020	05/23/08	1	1
Cadmium	U	0.24	0.50	ug/l	6020	05/23/08	1	1
Copper	1.3	0.45	1.0	ug/l	6020	05/23/08	1	10
Selenium	U	0.43	1.0	ug/l	6020	05/23/08	1	10
Thallium	U	0.090	1.0	ug/l	6020	05/23/08	1	5.5
Zinc	34.	3.0	10.	ug/l	6020	05/23/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	05/25/08	1	.2
Barium	600	1.0	5.0	ug/l	6010B	05/23/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	05/23/08	1	10
Cobalt	U	1.1	10.	ug/l	6010B	05/23/08	1	10
Lead	U	2.4	5.0	ug/l	6010B	05/23/08	1	5
Nickel	U	9.8	20.	ug/l	6010B	05/23/08	1	50
Silver	U	2.5	10.	ug/l	6010B	05/23/08	1	10
Tin	U	7.6	20.	ug/l	6010B	05/23/08	1	100
Vanadium	U	2.9	10.	ug/l	6010B	05/23/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	05/26/08	1	100
Acrolein	U	14.	50.	ug/l	8260B	05/26/08	1	53
Acrylonitrile	U	1.7	10.	ug/l	8260B	05/26/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	05/26/08	1	3
Bromoform	U	0.51	1.0	ug/l	8260B	05/26/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	05/26/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	05/26/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	05/26/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	05/26/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	05/26/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	05/26/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	05/26/08	1	1
1,2-Dibromoethane	U	0.48	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.48	5.0	ug/l	8260B	05/26/08	1	1

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June 06, 2008

ESC Sample # : L346603-07

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-7R

Project # : 1054-07-469

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Dibromomethane	U	0.28	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	5
1,3-Dichlorobenzene	U	0.19	1.0	ug/l	8260B	05/26/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	05/26/08	1	1
Dichlorodifluoromethane	U	0.54	5.0	ug/l	8260B	05/26/08	1	5
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	05/26/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	05/26/08	1	5
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	05/26/08	1	1
1,3-Dichloropropane	U	0.23	1.0	ug/l	8260B	05/26/08	1	1
2,2-Dichloropropane	U	0.25	1.0	ug/l	8260B	05/26/08	1	15
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	05/26/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	05/26/08	1	1
1,1-Dichloropropene	U	0.22	1.0	ug/l	8260B	05/26/08	1	5
Ethylbenzene	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	05/26/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	05/26/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	05/26/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	05/26/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	05/26/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	05/26/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	05/26/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Toluene	0.45	0.27	5.0	ug/l	8260B	05/26/08	1	1
1,2,4-Trichlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	10
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	05/26/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	05/26/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	05/26/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	05/26/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	05/26/08	1	4
Acetonitrile	U	11.	50.	ug/l	8260B	05/26/08	1	200
Allyl chloride	U	0.85	5.0	ug/l	8260B	05/26/08	1	10
Chloroprene	U	7.0	50.	ug/l	8260B	05/26/08	1	20
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	05/26/08	1	100
Ethyl methacrylate	U	1.0	5.0	ug/l	8260B	05/26/08	1	10
Isobutanol	U	1.4	100	ug/l	8260B	05/26/08	1	100

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Site ID :

Sample ID : MW-7R

Project # : 1054-07-469

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Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Methacrylonitrile	U	11.	50.	ug/l	8260B	05/26/08	1	100
Methyl methacrylate	U	1.3	50.	ug/l	8260B	05/26/08	1	30
Propionitrile	U	7.7	50.	ug/l	8260B	05/26/08	1	150
Surrogate Recovery								
Toluene-d8	108.		0.00100	% Rec.	8260B	05/26/08	1	
Dibromofluoromethane	113.		0.00100	% Rec.	8260B	05/26/08	1	
4-Bromofluorobenzene	94.8		0.00100	% Rec.	8260B	05/26/08	1	
Pesticide/PCBs								
Aldrin	U	0.026	0.052	ug/l	8081/80	06/03/08	1.03	.05
Alpha BHC	U	0.026	0.052	ug/l	8081/80	06/03/08	1.03	.05
Beta BHC	U	0.024	0.052	ug/l	8081/80	06/03/08	1.03	.05
Delta BHC	U	0.0093	0.052	ug/l	8081/80	06/03/08	1.03	.05
Gamma BHC	U	0.034	0.052	ug/l	8081/80	06/03/08	1.03	.05
Chlordane	U	0.14	0.52	ug/l	8081/80	06/03/08	1.03	.5
4,4-DDD	U	0.027	0.052	ug/l	8081/80	06/03/08	1.03	.1
4,4-DDE	U	0.026	0.052	ug/l	8081/80	06/03/08	1.03	.1
4,4-DDT	U	0.044	0.10	ug/l	8081/80	06/03/08	1.03	.1
Dieldrin	U	0.027	0.052	ug/l	8081/80	06/03/08	1.03	.075
Endosulfan I	U	0.016	0.052	ug/l	8081/80	06/03/08	1.03	.1
Endosulfan II	U	0.015	0.052	ug/l	8081/80	06/03/08	1.03	.1
Endosulfan sulfate	U	0.028	0.052	ug/l	8081/80	06/03/08	1.03	.1
Endrin	U	0.026	0.052	ug/l	8081/80	06/03/08	1.03	.1
Endrin aldehyde	U	0.025	0.052	ug/l	8081/80	06/03/08	1.03	.1
Heptachlor	U	0.032	0.052	ug/l	8081/80	06/03/08	1.03	.05
Heptachlor epoxide	U	0.028	0.052	ug/l	8081/80	06/03/08	1.03	.075
Hexachlorobenzene	U	0.022	0.52	ug/l	8081/80	06/03/08	1.03	10
Methoxychlor	U	0.036	0.10	ug/l	8081/80	06/03/08	1.03	1
Toxaphene	U	0.66	1.0	ug/l	8081/80	06/03/08	1.03	1.5
PCB 1016	U	0.079	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1221	U	0.17	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1232	U	0.18	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1242	U	0.10	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1248	U	0.040	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1254	U	0.12	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1260	U	0.16	0.52	ug/l	8081/80	05/24/08	1.03	2
Pest/PCBs Surrogates								
Decachlorobiphenyl	90.0			% Rec.	8081/80	05/24/08	1.03	
Tetrachloro-m-xylene	55.0			% Rec.	8081/80	05/24/08	1.03	
Herbicides								
2,4-D	U	0.14	2.0	ug/l	8151	05/23/08	1	2

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2,4,5-T	U	0.18	2.0	ug/l	8151	05/23/08	1	2
2,4,5-TP (Silvex)	U	0.22	2.0	ug/l	8151	05/23/08	1	2
Dinoseb	U	0.11	2.0	ug/l	8151	05/23/08	1	2
Surrogate Recovery								
2,4-Dichlorophenyl Acetic Acid	99.0			% Rec.	8151	05/23/08	1	
Ethylene Dibromide	U	0.0057	0.010	ug/l	8011	05/27/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.0063	0.020	ug/l	8011	05/27/08	1	1
Base/Neutral Extractables								
Acenaphthene	U	1.8	11.	ug/l	8270C	05/23/08	1.05	10
Acenaphthylene	U	2.0	11.	ug/l	8270C	05/23/08	1.05	10
Anthracene	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(a)anthracene	U	0.74	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(b)fluoranthene	U	0.81	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(k)fluoranthene	U	0.94	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(g,h,i)perylene	U	0.68	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(a)pyrene	U	0.68	11.	ug/l	8270C	05/23/08	1.05	10
Benzyl alcohol	U	1.5	11.	ug/l	8270C	05/23/08	1.05	20
Bis(2-chlorethoxy)methane	U	2.4	11.	ug/l	8270C	05/23/08	1.05	10
Bis(2-chloroethyl)ether	U	2.0	11.	ug/l	8270C	05/23/08	1.05	10
4-Bromophenyl-phenylether	U	1.4	11.	ug/l	8270C	05/23/08	1.05	10
4-Chloroaniline	U	2.7	11.	ug/l	8270C	05/23/08	1.05	20
2-Chloronaphthalene	U	1.8	11.	ug/l	8270C	05/23/08	1.05	10
4-Chlorophenyl-phenylether	U	1.9	11.	ug/l	8270C	05/23/08	1.05	10
Chrysene	U	0.84	11.	ug/l	8270C	05/23/08	1.05	10
Dibenz(a,h)anthracene	U	0.74	11.	ug/l	8270C	05/23/08	1.05	10
Dibenzofuran	U	1.6	11.	ug/l	8270C	05/23/08	1.05	10
3,3-Dichlorobenzidine	U	0.83	11.	ug/l	8270C	05/23/08	1.05	20
2,4-Dinitrotoluene	U	1.1	11.	ug/l	8270C	05/23/08	1.05	10
2,6-Dinitrotoluene	U	1.5	11.	ug/l	8270C	05/23/08	1.05	10
Fluoranthene	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Fluorene	U	1.6	11.	ug/l	8270C	05/23/08	1.05	10
Hexachlorobenzene	U	1.3	11.	ug/l	8270C	05/23/08	1.05	10
Hexachloro-1,3-butadiene	U	2.5	11.	ug/l	8270C	05/23/08	1.05	10
Hexachlorocyclopentadiene	U	1.7	11.	ug/l	8270C	05/23/08	1.05	10
Hexachloroethane	U	1.9	11.	ug/l	8270C	05/23/08	1.05	10
Indeno(1,2,3-cd)pyrene	U	0.76	11.	ug/l	8270C	05/23/08	1.05	10
Isophorone	U	2.9	11.	ug/l	8270C	05/23/08	1.05	10
2-Methylnaphthalene	U	2.1	11.	ug/l	8270C	05/23/08	1.05	10
Naphthalene	U	2.2	11.	ug/l	8270C	05/23/08	1.05	10
2-Nitroaniline	U	1.5	11.	ug/l	8270C	05/23/08	1.05	50

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3-Nitroaniline	U	1.2	11.	ug/l	8270C	05/23/08	1.05	50
4-Nitroaniline	U	1.7	11.	ug/l	8270C	05/23/08	1.05	20
Nitrobenzene	U	2.2	11.	ug/l	8270C	05/23/08	1.05	10
n-Nitrosodiphenylamine	U	1.8	11.	ug/l	8270C	05/23/08	1.05	10
n-Nitrosodi-n-propylamine	U	2.5	11.	ug/l	8270C	05/23/08	1.05	10
Phenanthrene	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Benzylbutyl phthalate	U	1.1	11.	ug/l	8270C	05/23/08	1.05	10
Bis(2-ethylhexyl)phthalate	U	1.4	11.	ug/l	8270C	05/23/08	1.05	15
Di-n-butyl phthalate	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Diethyl phthalate	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Dimethyl phthalate	U	1.4	11.	ug/l	8270C	05/23/08	1.05	10
Di-n-octyl phthalate	U	0.99	11.	ug/l	8270C	05/23/08	1.05	10
Pyrene	U	0.81	11.	ug/l	8270C	05/23/08	1.05	10
1,2,4-Trichlorobenzene	U	2.0	11.	ug/l	8270C	05/23/08	1.05	10
Acid Extractables								
4-Chloro-3-methylphenol	U	1.9	11.	ug/l	8270C	05/23/08	1.05	20
2-Chlorophenol	U	1.3	11.	ug/l	8270C	05/23/08	1.05	10
2-Methylphenol	U	1.3	11.	ug/l	8270C	05/23/08	1.05	10
3&4-methyl phenol	U	1.1	11.	ug/l	8270C	05/23/08	1.05	10
2,4-Dichlorophenol	U	2.1	11.	ug/l	8270C	05/23/08	1.05	50
2,4-Dimethylphenol	U	2.2	11.	ug/l	8270C	05/23/08	1.05	10
4,6-Dinitro-2-methylphenol	U	2.3	11.	ug/l	8270C	05/23/08	1.05	50
2,4-Dinitrophenol	U	1.3	11.	ug/l	8270C	05/23/08	1.05	50
2-Nitrophenol	U	2.2	11.	ug/l	8270C	05/23/08	1.05	10
4-Nitrophenol	U	0.80	11.	ug/l	8270C	05/23/08	1.05	50
Pentachlorophenol	U	2.5	11.	ug/l	8270C	05/23/08	1.05	25
Phenol	U	0.62	11.	ug/l	8270C	05/23/08	1.05	10
2,4,5-Trichlorophenol	U	1.8	11.	ug/l	8270C	05/23/08	1.05	10
2,4,6-Trichlorophenol	U	2.1	11.	ug/l	8270C	05/23/08	1.05	10
Additional Semi-Volatiles								
Acetophenone	U	3.5	11.	ug/l	8270C	05/23/08	1.05	10
2-Acetylaminofluorene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
4-Aminobiphenyl	U	3.5	11.	ug/l	8270C	05/28/08	1.05	15
Chlorobenzilate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Diallate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Ethyl methanesulfonate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Famphur	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Hexachloropropene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Isodrin	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Isosafrole	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Kepone	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Methapyrilene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	100

U = ND (Not Detected)
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-07

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-7R

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 17:30

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
3-Methylcholanthrene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Methyl methanesulfonate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Methyl parathion	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
1,4-Naphthoquinone	18.	3.5	11.	ug/l	8270C	05/28/08	1.05	10
1-Naphthylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
2-Naphthylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
n-Nitrosodi-n-butylamine	3.8	3.5	11.	ug/l	8270C	05/28/08	1.05	10
n-Nitrosodiethylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
n-Nitrosodimethylamine	U	1.4	11.	ug/l	8270C	05/23/08	1.05	10
n-Nitrosomethylethylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
n-Nitrosopiperidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
n-Nitrosopyrrolidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
5-Nitro-o-toluidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Parathion	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Pentachlorobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Pentachloronitrobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Phenacetin	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Phorate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Pronamide	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Dimethoate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
P-(Dimethylamino) Azobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Dimethylbenz (A) Anthracene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
3,3-Dimethylbenzidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
1,3-Dinitrobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Diphenylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Disulfoton	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Safrole	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Thionazin	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
o-Toluidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
O,O,O-Triethyl phosphorothioate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
sym-Trinitrobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
1,2,4,5-Tetrachlorobenzene	U	3.5	11.	ug/l	8270C	05/23/08	1.05	10
2,6-Dichlorophenol	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
2,3,4,6-Tetrachlorophenol	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Surrogate Recovery								
Nitrobenzene-d5	63.7			% Rec.	8270C	05/23/08	1.05	
2-Fluorobiphenyl	64.0			% Rec.	8270C	05/23/08	1.05	
p-Terphenyl-d14	76.6			% Rec.	8270C	05/23/08	1.05	
Phenol-d5	25.7			% Rec.	8270C	05/23/08	1.05	
2-Fluorophenol	37.5			% Rec.	8270C	05/23/08	1.05	
2,4,6-Tribromophenol	65.9			% Rec.	8270C	05/23/08	1.05	

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-08

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-8

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 14:30

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Cyanide	U	1.2	5.0	ug/l	9012B	05/29/08	1	10
Sulfide	U	16.	50.	ug/l	4500-S2	05/27/08	1	1000
Antimony	U	0.22	1.0	ug/l	6020	05/23/08	1	6
Arsenic	U	0.15	1.0	ug/l	6020	05/23/08	1	10
Beryllium	U	0.24	1.0	ug/l	6020	05/23/08	1	1
Cadmium	U	0.24	0.50	ug/l	6020	05/23/08	1	1
Copper	1.8	0.45	1.0	ug/l	6020	05/23/08	1	10
Selenium	U	0.43	1.0	ug/l	6020	05/23/08	1	10
Thallium	U	0.090	1.0	ug/l	6020	05/23/08	1	5.5
Zinc	4.6	3.0	10.	ug/l	6020	05/23/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	05/25/08	1	.2
Barium	33.	1.0	5.0	ug/l	6010B	05/23/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	05/23/08	1	10
Cobalt	2.6	1.1	10.	ug/l	6010B	05/23/08	1	10
Lead	U	2.4	5.0	ug/l	6010B	05/23/08	1	5
Nickel	U	9.8	20.	ug/l	6010B	05/23/08	1	50
Silver	U	2.5	10.	ug/l	6010B	05/23/08	1	10
Tin	U	7.6	20.	ug/l	6010B	05/23/08	1	100
Vanadium	U	2.9	10.	ug/l	6010B	05/23/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	05/26/08	1	100
Acrolein	U	14.	50.	ug/l	8260B	05/26/08	1	53
Acrylonitrile	U	1.7	10.	ug/l	8260B	05/26/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	05/26/08	1	3
Bromoform	U	0.51	1.0	ug/l	8260B	05/26/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	05/26/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	05/26/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	05/26/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	05/26/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	05/26/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	05/26/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	05/26/08	1	1
1,2-Dibromoethane	U	0.48	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.48	5.0	ug/l	8260B	05/26/08	1	1

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-08

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-8

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 14:30

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Dibromomethane	U	0.28	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	5
1,3-Dichlorobenzene	U	0.19	1.0	ug/l	8260B	05/26/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	05/26/08	1	1
Dichlorodifluoromethane	U	0.54	5.0	ug/l	8260B	05/26/08	1	5
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	05/26/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	05/26/08	1	5
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	05/26/08	1	1
1,3-Dichloropropane	U	0.23	1.0	ug/l	8260B	05/26/08	1	1
2,2-Dichloropropane	U	0.25	1.0	ug/l	8260B	05/26/08	1	15
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	05/26/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	05/26/08	1	1
1,1-Dichloropropene	U	0.22	1.0	ug/l	8260B	05/26/08	1	5
Ethylbenzene	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	05/26/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	05/26/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	05/26/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	05/26/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	05/26/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	05/26/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	05/26/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	05/26/08	1	1
1,2,4-Trichlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	10
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	05/26/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	05/26/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	05/26/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	05/26/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	05/26/08	1	4
Acetonitrile	U	11.	50.	ug/l	8260B	05/26/08	1	200
Allyl chloride	U	0.85	5.0	ug/l	8260B	05/26/08	1	10
Chloroprene	U	7.0	50.	ug/l	8260B	05/26/08	1	20
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	05/26/08	1	100
Ethyl methacrylate	U	1.0	5.0	ug/l	8260B	05/26/08	1	10
Isobutanol	U	1.4	100	ug/l	8260B	05/26/08	1	100

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-08

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-8

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 14:30

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Methacrylonitrile	U	11.	50.	ug/l	8260B	05/26/08	1	100
Methyl methacrylate	U	1.3	50.	ug/l	8260B	05/26/08	1	30
Propionitrile	U	7.7	50.	ug/l	8260B	05/26/08	1	150
Surrogate Recovery								
Toluene-d8	105.		0.00100	% Rec.	8260B	05/26/08	1	
Dibromofluoromethane	112.		0.00100	% Rec.	8260B	05/26/08	1	
4-Bromofluorobenzene	95.0		0.00100	% Rec.	8260B	05/26/08	1	
Pesticide/PCBs								
Aldrin	U	0.026	0.052	ug/l	8081/80	06/03/08	1.03	.05
Alpha BHC	U	0.026	0.052	ug/l	8081/80	06/03/08	1.03	.05
Beta BHC	U	0.024	0.052	ug/l	8081/80	06/03/08	1.03	.05
Delta BHC	U	0.0093	0.052	ug/l	8081/80	06/03/08	1.03	.05
Gamma BHC	U	0.034	0.052	ug/l	8081/80	06/03/08	1.03	.05
Chlordane	U	0.14	0.52	ug/l	8081/80	06/03/08	1.03	.5
4,4-DDD	U	0.027	0.052	ug/l	8081/80	06/03/08	1.03	.1
4,4-DDE	U	0.026	0.052	ug/l	8081/80	06/03/08	1.03	.1
4,4-DDT	U	0.044	0.10	ug/l	8081/80	06/03/08	1.03	.1
Dieldrin	U	0.027	0.052	ug/l	8081/80	06/03/08	1.03	.075
Endosulfan I	U	0.016	0.052	ug/l	8081/80	06/03/08	1.03	.1
Endosulfan II	U	0.015	0.052	ug/l	8081/80	06/03/08	1.03	.1
Endosulfan sulfate	U	0.028	0.052	ug/l	8081/80	06/03/08	1.03	.1
Endrin	U	0.026	0.052	ug/l	8081/80	06/03/08	1.03	.1
Endrin aldehyde	U	0.025	0.052	ug/l	8081/80	06/03/08	1.03	.1
Heptachlor	U	0.032	0.052	ug/l	8081/80	06/03/08	1.03	.05
Heptachlor epoxide	U	0.028	0.052	ug/l	8081/80	06/03/08	1.03	.075
Hexachlorobenzene	U	0.022	0.52	ug/l	8081/80	06/03/08	1.03	10
Methoxychlor	U	0.036	0.10	ug/l	8081/80	06/03/08	1.03	1
Toxaphene	U	0.66	1.0	ug/l	8081/80	06/03/08	1.03	1.5
PCB 1016	U	0.079	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1221	U	0.17	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1232	U	0.18	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1242	U	0.10	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1248	U	0.040	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1254	U	0.12	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1260	U	0.16	0.52	ug/l	8081/80	05/24/08	1.03	2
Pest/PCBs Surrogates								
Decachlorobiphenyl	90.0			% Rec.	8081/80	05/24/08	1.03	
Tetrachloro-m-xylene	40.0			% Rec.	8081/80	05/24/08	1.03	
Herbicides								
2,4-D	U	0.14	2.0	ug/l	8151	05/23/08	1	2

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Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-08

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-8

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 14:30

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
2,4,5-T	U	0.18	2.0	ug/l	8151	05/23/08	1	2
2,4,5-TP (Silvex)	U	0.22	2.0	ug/l	8151	05/23/08	1	2
Dinoseb	U	0.11	2.0	ug/l	8151	05/23/08	1	2
Surrogate Recovery								
2,4-Dichlorophenyl Acetic Acid	98.0			% Rec.	8151	05/23/08	1	
Ethylene Dibromide	U	0.0057	0.010	ug/l	8011	05/29/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.0063	0.020	ug/l	8011	05/29/08	1	1
Base/Neutral Extractables								
Acenaphthene	U	1.8	11.	ug/l	8270C	05/23/08	1.05	10
Acenaphthylene	U	2.0	11.	ug/l	8270C	05/23/08	1.05	10
Anthracene	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(a)anthracene	U	0.74	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(b)fluoranthene	U	0.81	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(k)fluoranthene	U	0.94	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(g,h,i)perylene	U	0.68	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(a)pyrene	U	0.68	11.	ug/l	8270C	05/23/08	1.05	10
Benzyl alcohol	U	1.5	11.	ug/l	8270C	05/23/08	1.05	20
Bis(2-chlorethoxy)methane	U	2.4	11.	ug/l	8270C	05/23/08	1.05	10
Bis(2-chloroethyl)ether	U	2.0	11.	ug/l	8270C	05/23/08	1.05	10
4-Bromophenyl-phenylether	U	1.4	11.	ug/l	8270C	05/23/08	1.05	10
4-Chloroaniline	U	2.7	11.	ug/l	8270C	05/23/08	1.05	20
2-Chloronaphthalene	U	1.8	11.	ug/l	8270C	05/23/08	1.05	10
4-Chlorophenyl-phenylether	U	1.9	11.	ug/l	8270C	05/23/08	1.05	10
Chrysene	U	0.84	11.	ug/l	8270C	05/23/08	1.05	10
Dibenz(a,h)anthracene	U	0.74	11.	ug/l	8270C	05/23/08	1.05	10
Dibenzofuran	U	1.6	11.	ug/l	8270C	05/23/08	1.05	10
3,3-Dichlorobenzidine	U	0.83	11.	ug/l	8270C	05/23/08	1.05	20
2,4-Dinitrotoluene	U	1.1	11.	ug/l	8270C	05/23/08	1.05	10
2,6-Dinitrotoluene	U	1.5	11.	ug/l	8270C	05/23/08	1.05	10
Fluoranthene	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Fluorene	U	1.6	11.	ug/l	8270C	05/23/08	1.05	10
Hexachlorobenzene	U	1.3	11.	ug/l	8270C	05/23/08	1.05	10
Hexachloro-1,3-butadiene	U	2.5	11.	ug/l	8270C	05/23/08	1.05	10
Hexachlorocyclopentadiene	U	1.7	11.	ug/l	8270C	05/23/08	1.05	10
Hexachloroethane	U	1.9	11.	ug/l	8270C	05/23/08	1.05	10
Indeno(1,2,3-cd)pyrene	U	0.76	11.	ug/l	8270C	05/23/08	1.05	10
Isophorone	U	2.9	11.	ug/l	8270C	05/23/08	1.05	10
2-Methylnaphthalene	U	2.1	11.	ug/l	8270C	05/23/08	1.05	10
Naphthalene	U	2.2	11.	ug/l	8270C	05/23/08	1.05	10
2-Nitroaniline	U	1.5	11.	ug/l	8270C	05/23/08	1.05	50

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-08

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-8

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 14:30

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
3-Nitroaniline	U	1.2	11.	ug/l	8270C	05/23/08	1.05	50
4-Nitroaniline	U	1.7	11.	ug/l	8270C	05/23/08	1.05	20
Nitrobenzene	U	2.2	11.	ug/l	8270C	05/23/08	1.05	10
n-Nitrosodiphenylamine	U	1.8	11.	ug/l	8270C	05/23/08	1.05	10
n-Nitrosodi-n-propylamine	U	2.5	11.	ug/l	8270C	05/23/08	1.05	10
Phenanthrene	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Benzylbutyl phthalate	U	1.1	11.	ug/l	8270C	05/23/08	1.05	10
Bis(2-ethylhexyl)phthalate	U	1.4	11.	ug/l	8270C	05/23/08	1.05	15
Di-n-butyl phthalate	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Diethyl phthalate	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Dimethyl phthalate	U	1.4	11.	ug/l	8270C	05/23/08	1.05	10
Di-n-octyl phthalate	U	0.99	11.	ug/l	8270C	05/23/08	1.05	10
Pyrene	U	0.81	11.	ug/l	8270C	05/23/08	1.05	10
1,2,4-Trichlorobenzene	U	2.0	11.	ug/l	8270C	05/23/08	1.05	10
Acid Extractables								
4-Chloro-3-methylphenol	U	1.9	11.	ug/l	8270C	05/23/08	1.05	20
2-Chlorophenol	U	1.3	11.	ug/l	8270C	05/23/08	1.05	10
2-Methylphenol	U	1.3	11.	ug/l	8270C	05/23/08	1.05	10
3&4-methyl phenol	U	1.1	11.	ug/l	8270C	05/23/08	1.05	10
2,4-Dichlorophenol	U	2.1	11.	ug/l	8270C	05/23/08	1.05	50
2,4-Dimethylphenol	U	2.2	11.	ug/l	8270C	05/23/08	1.05	10
4,6-Dinitro-2-methylphenol	U	2.3	11.	ug/l	8270C	05/23/08	1.05	50
2,4-Dinitrophenol	U	1.3	11.	ug/l	8270C	05/23/08	1.05	50
2-Nitrophenol	U	2.2	11.	ug/l	8270C	05/23/08	1.05	10
4-Nitrophenol	U	0.80	11.	ug/l	8270C	05/23/08	1.05	50
Pentachlorophenol	U	2.5	11.	ug/l	8270C	05/23/08	1.05	25
Phenol	U	0.62	11.	ug/l	8270C	05/23/08	1.05	10
2,4,5-Trichlorophenol	U	1.8	11.	ug/l	8270C	05/23/08	1.05	10
2,4,6-Trichlorophenol	U	2.1	11.	ug/l	8270C	05/23/08	1.05	10
Additional Semi-Volatiles								
Acetophenone	U	3.5	11.	ug/l	8270C	05/23/08	1.05	10
2-Acetylaminofluorene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
4-Aminobiphenyl	U	3.5	11.	ug/l	8270C	05/28/08	1.05	15
Chlorobenzilate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Diallate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Ethyl methanesulfonate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Famphur	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Hexachloropropene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Isodrin	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Isosafrole	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Kepone	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Methapyrilene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	100

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Est. 1970

REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-08

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : MW-8

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 14:30

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
3-Methylcholanthrene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Methyl methanesulfonate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Methyl parathion	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
1,4-Naphthoquinone	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
1-Naphthylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
2-Naphthylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
n-Nitrosodi-n-butylamine	3.6	3.5	11.	ug/l	8270C	05/28/08	1.05	10
n-Nitrosodiethylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
n-Nitrosodimethylamine	U	1.4	11.	ug/l	8270C	05/23/08	1.05	10
n-Nitrosomethylethylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
n-Nitrosopiperidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
n-Nitrosopyrrolidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
5-Nitro-o-toluidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Parathion	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Pentachlorobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Pentachloronitrobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Phenacetin	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Phorate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Pronamide	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Dimethoate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
P-(Dimethylamino) Azobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Dimethylbenz (A) Anthracene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
3,3-Dimethylbenzidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
1,3-Dinitrobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Diphenylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Disulfoton	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Safrole	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Thionazin	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
o-Toluidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
O,O,O-Triethyl phosphorothioate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
sym-Trinitrobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
1,2,4,5-Tetrachlorobenzene	U	3.5	11.	ug/l	8270C	05/23/08	1.05	10
2,6-Dichlorophenol	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
2,3,4,6-Tetrachlorophenol	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Surrogate Recovery								
Nitrobenzene-d5	43.2			% Rec.	8270C	05/23/08	1.05	
2-Fluorobiphenyl	57.6			% Rec.	8270C	05/23/08	1.05	
p-Terphenyl-d14	75.8			% Rec.	8270C	05/23/08	1.05	
Phenol-d5	16.0			% Rec.	8270C	05/23/08	1.05	
2-Fluorophenol	21.3			% Rec.	8270C	05/23/08	1.05	
2,4,6-Tribromophenol	60.2			% Rec.	8270C	05/23/08	1.05	

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-09

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : DUP

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 00:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Cyanide	U	1.2	5.0	ug/l	9012B	06/05/08	1	10
Sulfide	U	16.	50.	ug/l	4500-S2	05/27/08	1	1000
Antimony	U	0.22	1.0	ug/l	6020	05/23/08	1	6
Arsenic	0.32	0.15	1.0	ug/l	6020	05/23/08	1	10
Beryllium	U	0.24	1.0	ug/l	6020	05/23/08	1	1
Cadmium	U	0.24	0.50	ug/l	6020	05/23/08	1	1
Copper	1.6	0.45	1.0	ug/l	6020	05/23/08	1	10
Selenium	1.4	0.43	1.0	ug/l	6020	05/23/08	1	10
Thallium	U	0.090	1.0	ug/l	6020	05/23/08	1	5.5
Zinc	27.	3.0	10.	ug/l	6020	05/23/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	05/25/08	1	.2
Barium	420	1.0	5.0	ug/l	6010B	05/23/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	05/23/08	1	10
Cobalt	17.	1.1	10.	ug/l	6010B	05/23/08	1	10
Lead	U	2.4	5.0	ug/l	6010B	05/23/08	1	5
Nickel	16.	9.8	20.	ug/l	6010B	05/23/08	1	50
Silver	U	2.5	10.	ug/l	6010B	05/23/08	1	10
Tin	U	7.6	20.	ug/l	6010B	05/23/08	1	100
Vanadium	U	2.9	10.	ug/l	6010B	05/23/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	05/26/08	1	100
Acrolein	U	14.	50.	ug/l	8260B	05/26/08	1	53
Acrylonitrile	U	1.7	10.	ug/l	8260B	05/26/08	1	200
Benzene	4.3	0.29	1.0	ug/l	8260B	05/26/08	1	1
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	05/26/08	1	3
Bromoform	U	0.51	1.0	ug/l	8260B	05/26/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	05/26/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	05/26/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	05/26/08	1	1
Chlorobenzene	0.72	0.26	1.0	ug/l	8260B	05/26/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	05/26/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	05/26/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	05/26/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	05/26/08	1	1
1,2-Dibromoethane	U	0.48	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.48	5.0	ug/l	8260B	05/26/08	1	1

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L346603-09 (SV8270AP2) - Previous run also had low IS/SURR recovery. Matrix effect.
L346603-09 (PESTICIDES/PCBS) - IS/SURR failed on lower dilution.

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REPORT OF ANALYSIS

Jerry Paul
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3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-09

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : DUP

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 00:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Dibromomethane	U	0.28	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dichlorobenzene	0.62	0.29	1.0	ug/l	8260B	05/26/08	1	5
1,3-Dichlorobenzene	U	0.19	1.0	ug/l	8260B	05/26/08	1	5
1,4-Dichlorobenzene	4.5	0.30	1.0	ug/l	8260B	05/26/08	1	1
Dichlorodifluoromethane	U	0.54	5.0	ug/l	8260B	05/26/08	1	5
1,1-Dichloroethane	4.2	0.31	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	05/26/08	1	5
cis-1,2-Dichloroethene	140	0.38	1.0	ug/l	8260B	05/26/08	1	5
trans-1,2-Dichloroethene	5.9	0.30	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloropropane	3.5	0.52	1.0	ug/l	8260B	05/26/08	1	1
1,3-Dichloropropane	U	0.23	1.0	ug/l	8260B	05/26/08	1	1
2,2-Dichloropropane	U	0.25	1.0	ug/l	8260B	05/26/08	1	15
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	05/26/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	05/26/08	1	1
1,1-Dichloropropene	U	0.22	1.0	ug/l	8260B	05/26/08	1	5
Ethylbenzene	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	05/26/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	05/26/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	05/26/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	05/26/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	05/26/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	05/26/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	05/26/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	05/26/08	1	1
1,2,4-Trichlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	10
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	05/26/08	1	5
Trichloroethene	1.6	0.37	1.0	ug/l	8260B	05/26/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	05/26/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	05/26/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	05/26/08	1	50
Vinyl chloride	22.	0.27	1.0	ug/l	8260B	05/26/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	05/26/08	1	4
Acetonitrile	U	11.	50.	ug/l	8260B	05/26/08	1	200
Allyl chloride	U	0.85	5.0	ug/l	8260B	05/26/08	1	10
Chloroprene	U	7.0	50.	ug/l	8260B	05/26/08	1	20
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	05/26/08	1	100
Ethyl methacrylate	U	1.0	5.0	ug/l	8260B	05/26/08	1	10
Isobutanol	U	1.4	100	ug/l	8260B	05/26/08	1	100

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-09

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : DUP

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 00:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Methacrylonitrile	U	11.	50.	ug/l	8260B	05/26/08	1	100
Methyl methacrylate	U	1.3	50.	ug/l	8260B	05/26/08	1	30
Propionitrile	U	7.7	50.	ug/l	8260B	05/26/08	1	150
Surrogate Recovery								
Toluene-d8	107.		0.00100	% Rec.	8260B	05/26/08	1	
Dibromofluoromethane	109.		0.00100	% Rec.	8260B	05/26/08	1	
4-Bromofluorobenzene	94.9		0.00100	% Rec.	8260B	05/26/08	1	
Pesticide/PCBs								
Aldrin	U	0.026	0.052	ug/l	8081/80	06/05/08	1.03	.05
Alpha BHC	U	0.026	0.052	ug/l	8081/80	06/05/08	1.03	.05
Beta BHC	U	0.024	0.052	ug/l	8081/80	06/05/08	1.03	.05
Delta BHC	U	0.0093	0.052	ug/l	8081/80	06/05/08	1.03	.05
Gamma BHC	U	0.034	0.052	ug/l	8081/80	06/05/08	1.03	.05
Chlordane	U	0.14	0.52	ug/l	8081/80	06/05/08	1.03	.5
4,4-DDD	U	0.027	0.052	ug/l	8081/80	06/05/08	1.03	.1
4,4-DDE	U	0.026	0.052	ug/l	8081/80	06/05/08	1.03	.1
4,4-DDT	U	0.044	0.10	ug/l	8081/80	06/05/08	1.03	.1
Dieldrin	U	0.027	0.052	ug/l	8081/80	06/05/08	1.03	.075
Endosulfan I	U	0.016	0.052	ug/l	8081/80	06/05/08	1.03	.1
Endosulfan II	U	0.015	0.052	ug/l	8081/80	06/05/08	1.03	.1
Endosulfan sulfate	U	0.028	0.052	ug/l	8081/80	06/05/08	1.03	.1
Endrin	U	0.026	0.052	ug/l	8081/80	06/05/08	1.03	.1
Endrin aldehyde	U	0.025	0.052	ug/l	8081/80	06/05/08	1.03	.1
Heptachlor	U	0.032	0.052	ug/l	8081/80	06/05/08	1.03	.05
Heptachlor epoxide	U	0.028	0.052	ug/l	8081/80	06/05/08	1.03	.075
Hexachlorobenzene	U	0.022	0.52	ug/l	8081/80	06/05/08	1.03	10
Methoxychlor	U	0.036	0.10	ug/l	8081/80	06/05/08	1.03	1
Toxaphene	U	0.66	1.0	ug/l	8081/80	06/05/08	1.03	1.5
PCB 1016	U	0.079	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1221	U	0.17	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1232	U	0.18	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1242	U	0.10	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1248	U	0.040	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1254	U	0.12	0.52	ug/l	8081/80	05/24/08	1.03	2
PCB 1260	U	0.16	0.52	ug/l	8081/80	05/24/08	1.03	2
Pest/PCBs Surrogates								
Decachlorobiphenyl	75.0			% Rec.	8081/80	05/24/08	1.03	
Tetrachloro-m-xylene	55.0			% Rec.	8081/80	05/24/08	1.03	
Herbicides								
2,4-D	U	0.14	2.0	ug/l	8151	05/23/08	1	2

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June 06, 2008

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Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : DUP

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 00:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
2,4,5-T	U	0.18	2.0	ug/l	8151	05/23/08	1	2
2,4,5-TP (Silvex)	U	0.22	2.0	ug/l	8151	05/23/08	1	2
Dinoseb	U	0.11	2.0	ug/l	8151	05/23/08	1	2
Surrogate Recovery								
2,4-Dichlorophenyl Acetic Acid	83.8			% Rec.	8151	05/23/08	1	
Ethylene Dibromide	U	0.0057	0.010	ug/l	8011	05/27/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.0063	0.020	ug/l	8011	05/27/08	1	1
Base/Neutral Extractables								
Acenaphthene	U	1.8	10.	ug/l	8270C	05/28/08	1	10
Acenaphthylene	U	1.9	10.	ug/l	8270C	05/28/08	1	10
Anthracene	U	1.1	10.	ug/l	8270C	05/28/08	1	10
Benzo(a)anthracene	U	0.70	10.	ug/l	8270C	05/28/08	1	10
Benzo(b)fluoranthene	U	0.77	10.	ug/l	8270C	05/28/08	1	10
Benzo(k)fluoranthene	U	0.90	10.	ug/l	8270C	05/28/08	1	10
Benzo(g,h,i)perylene	U	0.65	10.	ug/l	8270C	05/28/08	1	10
Benzo(a)pyrene	U	0.65	10.	ug/l	8270C	05/28/08	1	10
Benzyl alcohol	U	1.4	10.	ug/l	8270C	05/28/08	1	20
Bis(2-chlorethoxy)methane	U	2.3	10.	ug/l	8270C	05/28/08	1	10
Bis(2-chloroethyl)ether	U	1.9	10.	ug/l	8270C	05/28/08	1	10
4-Bromophenyl-phenylether	U	1.3	10.	ug/l	8270C	05/28/08	1	10
4-Chloroaniline	U	2.6	10.	ug/l	8270C	05/28/08	1	20
2-Chloronaphthalene	U	1.7	10.	ug/l	8270C	05/28/08	1	10
4-Chlorophenyl-phenylether	U	1.8	10.	ug/l	8270C	05/28/08	1	10
Chrysene	U	0.80	10.	ug/l	8270C	05/28/08	1	10
Dibenz(a,h)anthracene	U	0.70	10.	ug/l	8270C	05/28/08	1	10
Dibenzofuran	U	1.5	10.	ug/l	8270C	05/28/08	1	10
3,3-Dichlorobenzidine	U	0.79	10.	ug/l	8270C	05/28/08	1	20
2,4-Dinitrotoluene	U	1.1	10.	ug/l	8270C	05/28/08	1	10
2,6-Dinitrotoluene	U	1.4	10.	ug/l	8270C	05/28/08	1	10
Fluoranthene	U	1.2	10.	ug/l	8270C	05/28/08	1	10
Fluorene	U	1.5	10.	ug/l	8270C	05/28/08	1	10
Hexachlorobenzene	U	1.2	10.	ug/l	8270C	05/28/08	1	10
Hexachloro-1,3-butadiene	U	2.4	10.	ug/l	8270C	05/28/08	1	10
Hexachlorocyclopentadiene	U	1.6	10.	ug/l	8270C	05/28/08	1	10
Hexachloroethane	U	1.8	10.	ug/l	8270C	05/28/08	1	10
Indeno(1,2,3-cd)pyrene	U	0.72	10.	ug/l	8270C	05/28/08	1	10
Isophorone	U	2.8	10.	ug/l	8270C	05/28/08	1	10
2-Methylnaphthalene	U	2.0	10.	ug/l	8270C	05/28/08	1	10
Naphthalene	U	2.1	10.	ug/l	8270C	05/28/08	1	10
2-Nitroaniline	U	1.5	10.	ug/l	8270C	05/28/08	1	50

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June 06, 2008

ESC Sample # : L346603-09

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : DUP

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 00:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
3-Nitroaniline	U	1.2	10.	ug/l	8270C	05/28/08	1	50
4-Nitroaniline	U	1.6	10.	ug/l	8270C	05/28/08	1	20
Nitrobenzene	U	2.1	10.	ug/l	8270C	05/28/08	1	10
n-Nitrosodiphenylamine	U	1.7	10.	ug/l	8270C	05/28/08	1	10
n-Nitrosodi-n-propylamine	U	2.4	10.	ug/l	8270C	05/28/08	1	10
Phenanthrene	U	1.1	10.	ug/l	8270C	05/28/08	1	10
Benzylbutyl phthalate	U	1.0	10.	ug/l	8270C	05/28/08	1	10
Bis(2-ethylhexyl)phthalate	U	1.3	10.	ug/l	8270C	05/28/08	1	15
Di-n-butyl phthalate	U	1.1	10.	ug/l	8270C	05/28/08	1	10
Diethyl phthalate	U	1.1	10.	ug/l	8270C	05/28/08	1	10
Dimethyl phthalate	U	1.3	10.	ug/l	8270C	05/28/08	1	10
Di-n-octyl phthalate	U	0.94	10.	ug/l	8270C	05/28/08	1	10
Pyrene	U	0.77	10.	ug/l	8270C	05/28/08	1	10
1,2,4-Trichlorobenzene	U	2.0	10.	ug/l	8270C	05/28/08	1	10
Acid Extractables								
4-Chloro-3-methylphenol	U	1.8	10.	ug/l	8270C	05/28/08	1	20
2-Chlorophenol	U	1.3	10.	ug/l	8270C	05/28/08	1	10
2-Methylphenol	U	1.3	10.	ug/l	8270C	05/28/08	1	10
3&4-methyl phenol	U	1.1	10.	ug/l	8270C	05/28/08	1	10
2,4-Dichlorophenol	U	2.0	10.	ug/l	8270C	05/28/08	1	50
2,4-Dimethylphenol	U	2.1	10.	ug/l	8270C	05/28/08	1	10
4,6-Dinitro-2-methylphenol	U	2.2	10.	ug/l	8270C	05/28/08	1	50
2,4-Dinitrophenol	U	1.2	10.	ug/l	8270C	05/28/08	1	50
2-Nitrophenol	U	2.1	10.	ug/l	8270C	05/28/08	1	10
4-Nitrophenol	U	0.76	10.	ug/l	8270C	05/28/08	1	50
Pentachlorophenol	U	2.4	10.	ug/l	8270C	05/28/08	1	25
Phenol	U	0.59	10.	ug/l	8270C	05/28/08	1	10
2,4,5-Trichlorophenol	U	1.7	10.	ug/l	8270C	05/28/08	1	10
2,4,6-Trichlorophenol	U	2.0	10.	ug/l	8270C	05/28/08	1	10
Additional Semi-Volatiles								
Acetophenone	U	3.3	10.	ug/l	8270C	05/28/08	1	10
2-Acetylaminofluorene	U	3.3	10.	ug/l	8270C	05/28/08	1	20
4-Aminobiphenyl	U	3.3	10.	ug/l	8270C	05/28/08	1	15
Chlorobenzilate	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Diallate	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Ethyl methanesulfonate	U	3.3	10.	ug/l	8270C	05/28/08	1	20
Famphur	U	3.3	10.	ug/l	8270C	05/28/08	1	20
Hexachloropropene	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Isodrin	U	3.3	10.	ug/l	8270C	05/28/08	1	20
Isosafrole	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Kepone	U	3.3	10.	ug/l	8270C	05/28/08	1	20
Methapyrilene	U	3.3	10.	ug/l	8270C	05/28/08	1	100

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Collected By : J Paul
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Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
3-Methylcholanthrene	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Methyl methanesulfonate	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Methyl parathion	U	3.3	10.	ug/l	8270C	05/28/08	1	10
1,4-Naphthoquinone	U	3.3	10.	ug/l	8270C	05/28/08	1	10
1-Naphthylamine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
2-Naphthylamine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
n-Nitrosodi-n-butylamine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
n-Nitrosodiethylamine	U	3.3	10.	ug/l	8270C	05/28/08	1	20
n-Nitrosodimethylamine	U	1.3	10.	ug/l	8270C	05/28/08	1	10
n-Nitrosomethylethylamine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
n-Nitrosopiperidine	U	3.3	10.	ug/l	8270C	05/28/08	1	20
n-Nitrosopyrrolidine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
5-Nitro-o-toluidine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Parathion	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Pentachlorobenzene	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Pentachloronitrobenzene	U	3.3	10.	ug/l	8270C	05/28/08	1	20
Phenacetin	U	3.3	10.	ug/l	8270C	05/28/08	1	20
Phorate	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Pronamide	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Dimethoate	U	3.3	10.	ug/l	8270C	05/28/08	1	20
P-(Dimethylamino) Azobenzene	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Dimethylbenz (A) Anthracene	U	3.3	10.	ug/l	8270C	05/28/08	1	10
3,3-Dimethylbenzidine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
1,3-Dinitrobenzene	U	3.3	10.	ug/l	8270C	05/28/08	1	20
Diphenylamine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Disulfoton	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Safrole	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Thionazin	U	3.3	10.	ug/l	8270C	05/28/08	1	20
o-Toluidine	U	3.3	10.	ug/l	8270C	05/28/08	1	10
O,O,O-Triethyl phosphorothioate	U	3.3	10.	ug/l	8270C	05/28/08	1	10
sym-Trinitrobenzene	U	3.3	10.	ug/l	8270C	05/28/08	1	10
1,2,4,5-Tetrachlorobenzene	U	3.3	10.	ug/l	8270C	05/28/08	1	10
2,6-Dichlorophenol	U	3.3	10.	ug/l	8270C	05/28/08	1	10
2,3,4,6-Tetrachlorophenol	U	3.3	10.	ug/l	8270C	05/28/08	1	10
Surrogate Recovery								
Nitrobenzene-d5	75.7			% Rec.	8270C	05/28/08	1	
2-Fluorobiphenyl	76.0			% Rec.	8270C	05/28/08	1	
p-Terphenyl-d14	111.			% Rec.	8270C	05/28/08	1	
Phenol-d5	1.79			% Rec.	8270C	05/28/08	1	
2-Fluorophenol	2.86			% Rec.	8270C	05/28/08	1	
2,4,6-Tribromophenol	10.1			% Rec.	8270C	05/28/08	1	

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L346603-09 (PESTICIDES/PCBS) - IS/SURR failed on lower dilution.

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SCIENCE CORP.

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-10

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : EQB

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 20:25

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Cyanide	U	1.2	5.0	ug/l	9012B	05/29/08	1	10
Sulfide	U	16.	50.	ug/l	4500-S2	05/27/08	1	1000
Antimony	U	0.22	1.0	ug/l	6020	05/23/08	1	6
Arsenic	U	0.15	1.0	ug/l	6020	05/23/08	1	10
Beryllium	U	0.24	1.0	ug/l	6020	05/23/08	1	1
Cadmium	U	0.24	0.50	ug/l	6020	05/23/08	1	1
Copper	5.7	0.45	1.0	ug/l	6020	05/23/08	1	10
Selenium	U	0.43	1.0	ug/l	6020	05/23/08	1	10
Thallium	U	0.090	1.0	ug/l	6020	05/23/08	1	5.5
Zinc	U	3.0	10.	ug/l	6020	05/23/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	05/25/08	1	.2
Barium	U	1.0	5.0	ug/l	6010B	05/23/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	05/23/08	1	10
Cobalt	U	1.1	10.	ug/l	6010B	05/23/08	1	10
Lead	U	2.4	5.0	ug/l	6010B	05/23/08	1	5
Nickel	U	9.8	20.	ug/l	6010B	05/23/08	1	50
Silver	U	2.5	10.	ug/l	6010B	05/23/08	1	10
Tin	U	7.6	20.	ug/l	6010B	05/23/08	1	100
Vanadium	U	2.9	10.	ug/l	6010B	05/23/08	1	25
Volatile Organics								
Acetone	13.	8.9	50.	ug/l	8260B	05/26/08	1	100
Acrolein	U	14.	50.	ug/l	8260B	05/26/08	1	53
Acrylonitrile	U	1.7	10.	ug/l	8260B	05/26/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	05/26/08	1	3
Bromoform	U	0.51	1.0	ug/l	8260B	05/26/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	05/26/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	05/26/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	05/26/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	05/26/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	05/26/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	05/26/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	05/26/08	1	1
1,2-Dibromoethane	U	0.48	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.48	5.0	ug/l	8260B	05/26/08	1	1

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-10

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : EQB

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 20:25

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Dibromomethane	U	0.28	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	5
1,3-Dichlorobenzene	U	0.19	1.0	ug/l	8260B	05/26/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	05/26/08	1	1
Dichlorodifluoromethane	U	0.54	5.0	ug/l	8260B	05/26/08	1	5
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	05/26/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	05/26/08	1	5
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	05/26/08	1	1
1,3-Dichloropropane	U	0.23	1.0	ug/l	8260B	05/26/08	1	1
2,2-Dichloropropane	U	0.25	1.0	ug/l	8260B	05/26/08	1	15
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	05/26/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	05/26/08	1	1
1,1-Dichloropropene	U	0.22	1.0	ug/l	8260B	05/26/08	1	5
Ethylbenzene	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	05/26/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	05/26/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	05/26/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	05/26/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	05/26/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	05/26/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	05/26/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Toluene	0.66	0.27	5.0	ug/l	8260B	05/26/08	1	1
1,2,4-Trichlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	10
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	05/26/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	05/26/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	05/26/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	05/26/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	05/26/08	1	4
Acetonitrile	U	11.	50.	ug/l	8260B	05/26/08	1	200
Allyl chloride	U	0.85	5.0	ug/l	8260B	05/26/08	1	10
Chloroprene	U	7.0	50.	ug/l	8260B	05/26/08	1	20
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	05/26/08	1	100
Ethyl methacrylate	U	1.0	5.0	ug/l	8260B	05/26/08	1	10
Isobutanol	U	1.4	100	ug/l	8260B	05/26/08	1	100

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-10

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : EQB

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 20:25

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Methacrylonitrile	U	11.	50.	ug/l	8260B	05/26/08	1	100
Methyl methacrylate	U	1.3	50.	ug/l	8260B	05/26/08	1	30
Propionitrile	U	7.7	50.	ug/l	8260B	05/26/08	1	150
Surrogate Recovery								
Toluene-d8	98.7		0.00100	% Rec.	8260B	05/26/08	1	
Dibromofluoromethane	97.0		0.00100	% Rec.	8260B	05/26/08	1	
4-Bromofluorobenzene	90.9		0.00100	% Rec.	8260B	05/26/08	1	
Pesticide/PCBs								
Aldrin	U	0.025	0.050	ug/l	8081/80	06/03/08	1	.05
Alpha BHC	U	0.025	0.050	ug/l	8081/80	06/03/08	1	.05
Beta BHC	U	0.023	0.050	ug/l	8081/80	06/03/08	1	.05
Delta BHC	U	0.0090	0.050	ug/l	8081/80	06/03/08	1	.05
Gamma BHC	U	0.033	0.050	ug/l	8081/80	06/03/08	1	.05
Chlordane	U	0.14	0.50	ug/l	8081/80	06/03/08	1	.5
4,4-DDD	U	0.026	0.050	ug/l	8081/80	06/03/08	1	.1
4,4-DDE	U	0.025	0.050	ug/l	8081/80	06/03/08	1	.1
4,4-DDT	U	0.043	0.10	ug/l	8081/80	06/03/08	1	.1
Dieldrin	U	0.026	0.050	ug/l	8081/80	06/03/08	1	.075
Endosulfan I	U	0.016	0.050	ug/l	8081/80	06/03/08	1	.1
Endosulfan II	U	0.015	0.050	ug/l	8081/80	06/03/08	1	.1
Endosulfan sulfate	U	0.027	0.050	ug/l	8081/80	06/03/08	1	.1
Endrin	U	0.025	0.050	ug/l	8081/80	06/03/08	1	.1
Endrin aldehyde	U	0.024	0.050	ug/l	8081/80	06/03/08	1	.1
Heptachlor	U	0.031	0.050	ug/l	8081/80	06/03/08	1	.05
Heptachlor epoxide	U	0.027	0.050	ug/l	8081/80	06/03/08	1	.075
Hexachlorobenzene	U	0.021	0.50	ug/l	8081/80	06/03/08	1	10
Methoxychlor	U	0.035	0.10	ug/l	8081/80	06/03/08	1	1
Toxaphene	U	0.64	1.0	ug/l	8081/80	06/03/08	1	1.5
PCB 1016	U	0.077	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1221	U	0.16	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1232	U	0.18	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1242	U	0.099	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1248	U	0.039	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1254	U	0.12	0.50	ug/l	8081/80	05/24/08	1	2
PCB 1260	U	0.16	0.50	ug/l	8081/80	05/24/08	1	2
Pest/PCBs Surrogates								
Decachlorobiphenyl	60.0			% Rec.	8081/80	05/24/08	1	
Tetrachloro-m-xylene	50.0			% Rec.	8081/80	05/24/08	1	
Herbicides								
2,4-D	U	0.14	2.0	ug/l	8151	05/23/08	1	2

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Site ID :

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Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
2,4,5-T	U	0.18	2.0	ug/l	8151	05/23/08	1	2
2,4,5-TP (Silvex)	U	0.22	2.0	ug/l	8151	05/23/08	1	2
Dinoseb	U	0.11	2.0	ug/l	8151	05/23/08	1	2
Surrogate Recovery								
2,4-Dichlorophenyl Acetic Acid	105.			% Rec.	8151	05/23/08	1	
Ethylene Dibromide	U	0.0057	0.010	ug/l	8011	05/27/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.0063	0.020	ug/l	8011	05/27/08	1	1
Base/Neutral Extractables								
Acenaphthene	U	1.8	11.	ug/l	8270C	05/23/08	1.05	10
Acenaphthylene	U	2.0	11.	ug/l	8270C	05/23/08	1.05	10
Anthracene	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(a)anthracene	U	0.74	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(b)fluoranthene	U	0.81	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(k)fluoranthene	U	0.94	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(g,h,i)perylene	U	0.68	11.	ug/l	8270C	05/23/08	1.05	10
Benzo(a)pyrene	U	0.68	11.	ug/l	8270C	05/23/08	1.05	10
Benzyl alcohol	U	1.5	11.	ug/l	8270C	05/23/08	1.05	20
Bis(2-chlorethoxy)methane	U	2.4	11.	ug/l	8270C	05/23/08	1.05	10
Bis(2-chloroethyl)ether	U	2.0	11.	ug/l	8270C	05/23/08	1.05	10
4-Bromophenyl-phenylether	U	1.4	11.	ug/l	8270C	05/23/08	1.05	10
4-Chloroaniline	U	2.7	11.	ug/l	8270C	05/23/08	1.05	20
2-Chloronaphthalene	U	1.8	11.	ug/l	8270C	05/23/08	1.05	10
4-Chlorophenyl-phenylether	U	1.9	11.	ug/l	8270C	05/23/08	1.05	10
Chrysene	U	0.84	11.	ug/l	8270C	05/23/08	1.05	10
Dibenz(a,h)anthracene	U	0.74	11.	ug/l	8270C	05/23/08	1.05	10
Dibenzofuran	U	1.6	11.	ug/l	8270C	05/23/08	1.05	10
3,3-Dichlorobenzidine	U	0.83	11.	ug/l	8270C	05/23/08	1.05	20
2,4-Dinitrotoluene	U	1.1	11.	ug/l	8270C	05/23/08	1.05	10
2,6-Dinitrotoluene	U	1.5	11.	ug/l	8270C	05/23/08	1.05	10
Fluoranthene	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Fluorene	U	1.6	11.	ug/l	8270C	05/23/08	1.05	10
Hexachlorobenzene	U	1.3	11.	ug/l	8270C	05/23/08	1.05	10
Hexachloro-1,3-butadiene	U	2.5	11.	ug/l	8270C	05/23/08	1.05	10
Hexachlorocyclopentadiene	U	1.7	11.	ug/l	8270C	05/23/08	1.05	10
Hexachloroethane	U	1.9	11.	ug/l	8270C	05/23/08	1.05	10
Indeno(1,2,3-cd)pyrene	U	0.76	11.	ug/l	8270C	05/23/08	1.05	10
Isophorone	U	2.9	11.	ug/l	8270C	05/23/08	1.05	10
2-Methylnaphthalene	U	2.1	11.	ug/l	8270C	05/23/08	1.05	10
Naphthalene	U	2.2	11.	ug/l	8270C	05/23/08	1.05	10
2-Nitroaniline	U	1.5	11.	ug/l	8270C	05/23/08	1.05	50

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3-Nitroaniline	U	1.2	11.	ug/l	8270C	05/23/08	1.05	50
4-Nitroaniline	U	1.7	11.	ug/l	8270C	05/23/08	1.05	20
Nitrobenzene	U	2.2	11.	ug/l	8270C	05/23/08	1.05	10
n-Nitrosodiphenylamine	U	1.8	11.	ug/l	8270C	05/23/08	1.05	10
n-Nitrosodi-n-propylamine	U	2.5	11.	ug/l	8270C	05/23/08	1.05	10
Phenanthrene	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Benzylbutyl phthalate	U	1.1	11.	ug/l	8270C	05/23/08	1.05	10
Bis(2-ethylhexyl)phthalate	U	1.4	11.	ug/l	8270C	05/23/08	1.05	15
Di-n-butyl phthalate	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Diethyl phthalate	U	1.2	11.	ug/l	8270C	05/23/08	1.05	10
Dimethyl phthalate	U	1.4	11.	ug/l	8270C	05/23/08	1.05	10
Di-n-octyl phthalate	U	0.99	11.	ug/l	8270C	05/23/08	1.05	10
Pyrene	U	0.81	11.	ug/l	8270C	05/23/08	1.05	10
1,2,4-Trichlorobenzene	U	2.0	11.	ug/l	8270C	05/23/08	1.05	10
Acid Extractables								
4-Chloro-3-methylphenol	U	1.9	11.	ug/l	8270C	05/23/08	1.05	20
2-Chlorophenol	U	1.3	11.	ug/l	8270C	05/23/08	1.05	10
2-Methylphenol	U	1.3	11.	ug/l	8270C	05/23/08	1.05	10
3&4-methyl phenol	U	1.1	11.	ug/l	8270C	05/23/08	1.05	10
2,4-Dichlorophenol	U	2.1	11.	ug/l	8270C	05/23/08	1.05	50
2,4-Dimethylphenol	U	2.2	11.	ug/l	8270C	05/23/08	1.05	10
4,6-Dinitro-2-methylphenol	U	2.3	11.	ug/l	8270C	05/23/08	1.05	50
2,4-Dinitrophenol	U	1.3	11.	ug/l	8270C	05/23/08	1.05	50
2-Nitrophenol	U	2.2	11.	ug/l	8270C	05/23/08	1.05	10
4-Nitrophenol	U	0.80	11.	ug/l	8270C	05/23/08	1.05	50
Pentachlorophenol	U	2.5	11.	ug/l	8270C	05/23/08	1.05	25
Phenol	U	0.62	11.	ug/l	8270C	05/23/08	1.05	10
2,4,5-Trichlorophenol	U	1.8	11.	ug/l	8270C	05/23/08	1.05	10
2,4,6-Trichlorophenol	U	2.1	11.	ug/l	8270C	05/23/08	1.05	10
Additional Semi-Volatiles								
Acetophenone	U	3.5	11.	ug/l	8270C	05/23/08	1.05	10
2-Acetylaminofluorene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
4-Aminobiphenyl	U	3.5	11.	ug/l	8270C	05/28/08	1.05	15
Chlorobenzilate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Diallate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Ethyl methanesulfonate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Famphur	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Hexachloropropene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Isodrin	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Isosafrole	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Kepone	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Methapyrilene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	100

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-10

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : EQB

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 20:25

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
3-Methylcholanthrene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Methyl methanesulfonate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Methyl parathion	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
1,4-Naphthoquinone	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
1-Naphthylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
2-Naphthylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
n-Nitrosodi-n-butylamine	3.9	3.5	11.	ug/l	8270C	05/28/08	1.05	10
n-Nitrosodiethylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
n-Nitrosodimethylamine	U	1.4	11.	ug/l	8270C	05/23/08	1.05	10
n-Nitrosomethylethylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
n-Nitrosopiperidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
n-Nitrosopyrrolidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
5-Nitro-o-toluidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Parathion	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Pentachlorobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Pentachloronitrobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Phenacetin	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Phorate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Pronamide	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Dimethoate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
P-(Dimethylamino) Azobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Dimethylbenz (A) Anthracene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
3,3-Dimethylbenzidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
1,3-Dinitrobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
Diphenylamine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Disulfoton	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Safrole	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Thionazin	U	3.5	11.	ug/l	8270C	05/28/08	1.05	20
o-Toluidine	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
O,O,O-Triethyl phosphorothioate	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
sym-Trinitrobenzene	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
1,2,4,5-Tetrachlorobenzene	U	3.5	11.	ug/l	8270C	05/23/08	1.05	10
2,6-Dichlorophenol	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
2,3,4,6-Tetrachlorophenol	U	3.5	11.	ug/l	8270C	05/28/08	1.05	10
Surrogate Recovery								
Nitrobenzene-d5	58.5			% Rec.	8270C	05/23/08	1.05	
2-Fluorobiphenyl	66.5			% Rec.	8270C	05/23/08	1.05	
p-Terphenyl-d14	75.5			% Rec.	8270C	05/23/08	1.05	
Phenol-d5	29.4			% Rec.	8270C	05/23/08	1.05	
2-Fluorophenol	39.7			% Rec.	8270C	05/23/08	1.05	
2,4,6-Tribromophenol	68.8			% Rec.	8270C	05/23/08	1.05	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-11

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : S-1

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 09:50

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Fluoride	97.	32.	100	ug/l	9056	05/23/08	1	2000
Antimony	U	0.22	1.0	ug/l	6020	05/23/08	1	6
Arsenic	U	0.15	1.0	ug/l	6020	05/23/08	1	10
Beryllium	U	0.24	1.0	ug/l	6020	05/23/08	1	1
Cadmium	U	0.24	0.50	ug/l	6020	05/23/08	1	1
Copper	6.0	0.45	1.0	ug/l	6020	05/23/08	1	10
Selenium	U	0.43	1.0	ug/l	6020	05/23/08	1	10
Thallium	U	0.090	1.0	ug/l	6020	05/23/08	1	5.5
Zinc	10.	3.0	10.	ug/l	6020	05/23/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	05/25/08	1	.2
Barium	64.	1.0	5.0	ug/l	6010B	05/23/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	05/23/08	1	10
Cobalt	U	1.1	10.	ug/l	6010B	05/23/08	1	10
Lead	U	2.4	5.0	ug/l	6010B	05/23/08	1	5
Nickel	U	9.8	20.	ug/l	6010B	05/23/08	1	50
Silver	U	2.5	10.	ug/l	6010B	05/23/08	1	10
Vanadium	U	2.9	10.	ug/l	6010B	05/23/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	05/26/08	1	100
Acrylonitrile	U	1.7	10.	ug/l	8260B	05/26/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	05/26/08	1	3
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	05/26/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	05/26/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	05/26/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	05/26/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	05/26/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	05/26/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	05/26/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	05/26/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	05/26/08	1	1
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	05/26/08	1	100
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-11

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : S-1

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 09:50

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	05/26/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	05/26/08	1	5
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	05/26/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	05/26/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	05/26/08	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	05/26/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	05/26/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	05/26/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	05/26/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	05/26/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	05/26/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	05/26/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	05/26/08	1	1
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	05/26/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	05/26/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	05/26/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	05/26/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	05/26/08	1	4
Surrogate Recovery								
Toluene-d8	105.			% Rec.	8260B	05/26/08	1	
Dibromofluoromethane	108.			% Rec.	8260B	05/26/08	1	
4-Bromofluorobenzene	108.			% Rec.	8260B	05/26/08	1	
Ethylene Dibromide	U	0.0057	0.010	ug/l	8011	05/27/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.0063	0.020	ug/l	8011	05/27/08	1	1

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-12

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : S-2

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 12:20

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Fluoride	110	32.	100	ug/l	9056	05/23/08	1	2000
Antimony	0.24	0.22	1.0	ug/l	6020	05/23/08	1	6
Arsenic	1.2	0.15	1.0	ug/l	6020	05/23/08	1	10
Beryllium	0.34	0.24	1.0	ug/l	6020	05/23/08	1	1
Cadmium	U	0.24	0.50	ug/l	6020	05/23/08	1	1
Copper	10.	0.45	1.0	ug/l	6020	05/23/08	1	10
Selenium	U	0.43	1.0	ug/l	6020	05/23/08	1	10
Thallium	U	0.090	1.0	ug/l	6020	05/23/08	1	5.5
Zinc	38.	3.0	10.	ug/l	6020	05/23/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	05/25/08	1	.2
Barium	66.	1.0	5.0	ug/l	6010B	05/23/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	05/23/08	1	10
Cobalt	U	1.1	10.	ug/l	6010B	05/23/08	1	10
Lead	4.1	2.4	5.0	ug/l	6010B	05/23/08	1	5
Nickel	U	9.8	20.	ug/l	6010B	05/23/08	1	50
Silver	U	2.5	10.	ug/l	6010B	05/23/08	1	10
Vanadium	3.1	2.9	10.	ug/l	6010B	05/23/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	05/26/08	1	100
Acrylonitrile	U	1.7	10.	ug/l	8260B	05/26/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	05/26/08	1	3
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	05/26/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	05/26/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	05/26/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	05/26/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	05/26/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	05/26/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	05/26/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	05/26/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	05/26/08	1	1
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	05/26/08	1	100
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-12

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : S-2

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 12:20

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	05/26/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	05/26/08	1	5
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	05/26/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	05/26/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	05/26/08	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	05/26/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	05/26/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	05/26/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	05/26/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	05/26/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	05/26/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	05/26/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	05/26/08	1	1
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	05/26/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	05/26/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	05/26/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	05/26/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	05/26/08	1	4
Surrogate Recovery								
Toluene-d8	103.			% Rec.	8260B	05/26/08	1	
Dibromofluoromethane	109.			% Rec.	8260B	05/26/08	1	
4-Bromofluorobenzene	108.			% Rec.	8260B	05/26/08	1	
Ethylene Dibromide	U	0.0057	0.010	ug/l	8011	05/27/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.0063	0.020	ug/l	8011	05/27/08	1	1

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-13

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : S-3

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 13:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Fluoride	290	32.	100	ug/l	9056	05/23/08	1	2000
Antimony	0.36	0.22	1.0	ug/l	6020	05/23/08	1	6
Arsenic	U	0.15	1.0	ug/l	6020	05/23/08	1	10
Beryllium	U	0.24	1.0	ug/l	6020	05/23/08	1	1
Cadmium	U	0.24	0.50	ug/l	6020	05/23/08	1	1
Copper	3.8	0.45	1.0	ug/l	6020	05/23/08	1	10
Selenium	U	0.43	1.0	ug/l	6020	05/23/08	1	10
Thallium	U	0.090	1.0	ug/l	6020	05/23/08	1	5.5
Zinc	47.	3.0	10.	ug/l	6020	05/23/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	05/25/08	1	.2
Barium	18.	1.0	5.0	ug/l	6010B	05/23/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	05/23/08	1	10
Cobalt	U	1.1	10.	ug/l	6010B	05/23/08	1	10
Lead	U	2.4	5.0	ug/l	6010B	05/23/08	1	5
Nickel	U	9.8	20.	ug/l	6010B	05/23/08	1	50
Silver	U	2.5	10.	ug/l	6010B	05/23/08	1	10
Vanadium	U	2.9	10.	ug/l	6010B	05/23/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	05/26/08	1	100
Acrylonitrile	U	1.7	10.	ug/l	8260B	05/26/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	05/26/08	1	3
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	05/26/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	05/26/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	05/26/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	05/26/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	05/26/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	05/26/08	1	10
Chloroform	0.58	0.33	5.0	ug/l	8260B	05/26/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	05/26/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	05/26/08	1	1
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	05/26/08	1	100
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-13

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : S-3

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 13:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	05/26/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	05/26/08	1	5
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	05/26/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	05/26/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	05/26/08	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	05/26/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	05/26/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	05/26/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	05/26/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	05/26/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	05/26/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	05/26/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	05/26/08	1	1
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	05/26/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	05/26/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	05/26/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	05/26/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	05/26/08	1	4
Surrogate Recovery								
Toluene-d8	105.			% Rec.	8260B	05/26/08	1	
Dibromofluoromethane	108.			% Rec.	8260B	05/26/08	1	
4-Bromofluorobenzene	108.			% Rec.	8260B	05/26/08	1	
Ethylene Dibromide	U	0.0057	0.010	ug/l	8011	05/27/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.0063	0.020	ug/l	8011	05/27/08	1	1

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-14

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : S-4

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 13:20

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Fluoride	320	32.	100	ug/l	9056	05/23/08	1	2000
Antimony	0.40	0.22	1.0	ug/l	6020	05/23/08	1	6
Arsenic	U	0.15	1.0	ug/l	6020	05/23/08	1	10
Beryllium	U	0.24	1.0	ug/l	6020	05/23/08	1	1
Cadmium	U	0.24	0.50	ug/l	6020	05/23/08	1	1
Copper	4.0	0.45	1.0	ug/l	6020	05/23/08	1	10
Selenium	U	0.43	1.0	ug/l	6020	05/23/08	1	10
Thallium	U	0.090	1.0	ug/l	6020	05/23/08	1	5.5
Zinc	48.	3.0	10.	ug/l	6020	05/23/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	05/25/08	1	.2
Barium	17.	1.0	5.0	ug/l	6010B	05/23/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	05/23/08	1	10
Cobalt	U	1.1	10.	ug/l	6010B	05/23/08	1	10
Lead	U	2.4	5.0	ug/l	6010B	05/23/08	1	5
Nickel	U	9.8	20.	ug/l	6010B	05/23/08	1	50
Silver	U	2.5	10.	ug/l	6010B	05/23/08	1	10
Vanadium	U	2.9	10.	ug/l	6010B	05/23/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	05/26/08	1	100
Acrylonitrile	U	1.7	10.	ug/l	8260B	05/26/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	05/26/08	1	3
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	05/26/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	05/26/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	05/26/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	05/26/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	05/26/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	05/26/08	1	10
Chloroform	0.66	0.33	5.0	ug/l	8260B	05/26/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	05/26/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	05/26/08	1	1
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	05/26/08	1	100
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-14

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : S-4

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 13:20

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	05/26/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	05/26/08	1	5
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	05/26/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	05/26/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	05/26/08	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	05/26/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	05/26/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	05/26/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	05/26/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	05/26/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	05/26/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	05/26/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	05/26/08	1	1
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	05/26/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	05/26/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	05/26/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	05/26/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	05/26/08	1	4
Surrogate Recovery								
Toluene-d8	103.			% Rec.	8260B	05/26/08	1	
Dibromofluoromethane	108.			% Rec.	8260B	05/26/08	1	
4-Bromofluorobenzene	109.			% Rec.	8260B	05/26/08	1	
Ethylene Dibromide	U	0.0057	0.010	ug/l	8011	05/27/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.0063	0.020	ug/l	8011	05/27/08	1	1

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-15

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : TRIP BLANK

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 00:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Volatile Organics								
Acetone	13.	8.9	50.	ug/l	8260B	05/26/08	1	100
Acrolein	U	14.	50.	ug/l	8260B	05/26/08	1	53
Acrylonitrile	U	1.7	10.	ug/l	8260B	05/26/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	05/26/08	1	3
Bromoform	U	0.51	1.0	ug/l	8260B	05/26/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	05/26/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	05/26/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	05/26/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	05/26/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	05/26/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	05/26/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	05/26/08	1	1
1,2-Dibromoethane	U	0.48	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.48	5.0	ug/l	8260B	05/26/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	05/26/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	05/26/08	1	5
1,3-Dichlorobenzene	U	0.19	1.0	ug/l	8260B	05/26/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	05/26/08	1	1
Dichlorodifluoromethane	U	0.54	5.0	ug/l	8260B	05/26/08	1	5
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	05/26/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	05/26/08	1	5
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	05/26/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	05/26/08	1	1
1,3-Dichloropropane	U	0.23	1.0	ug/l	8260B	05/26/08	1	1
2,2-Dichloropropane	U	0.25	1.0	ug/l	8260B	05/26/08	1	15
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	05/26/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	05/26/08	1	1
1,1-Dichloropropene	U	0.22	1.0	ug/l	8260B	05/26/08	1	5
Ethylbenzene	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	05/26/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	05/26/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	05/26/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	05/26/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	05/26/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	05/26/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	05/26/08	1	5

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 06/03/08 14:49 Revised: 06/06/08 11:42

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

June 06, 2008

ESC Sample # : L346603-15

Date Received : May 21, 2008
Description : City of Durham Landfill-MSWLF

Site ID :

Sample ID : TRIP BLANK

Project # : 1054-07-469

Collected By : J Paul
Collection Date : 05/19/08 00:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	05/26/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	05/26/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	05/26/08	1	1
1,2,4-Trichlorobenzene	U	0.26	1.0	ug/l	8260B	05/26/08	1	10
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	05/26/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	05/26/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	05/26/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	05/26/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	05/26/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	05/26/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	05/26/08	1	4
Acetonitrile	U	11.	50.	ug/l	8260B	05/26/08	1	200
Allyl chloride	U	0.85	5.0	ug/l	8260B	05/26/08	1	10
Chloroprene	U	7.0	50.	ug/l	8260B	05/26/08	1	20
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	05/26/08	1	100
Ethyl methacrylate	U	1.0	5.0	ug/l	8260B	05/26/08	1	10
Isobutanol	U	1.4	100	ug/l	8260B	05/26/08	1	100
Methacrylonitrile	U	11.	50.	ug/l	8260B	05/26/08	1	100
Methyl methacrylate	U	1.3	50.	ug/l	8260B	05/26/08	1	30
Propionitrile	U	7.7	50.	ug/l	8260B	05/26/08	1	150
Surrogate Recovery								
Toluene-d8	98.3		0.00100	% Rec.	8260B	05/26/08	1	
Dibromofluoromethane	96.4		0.00100	% Rec.	8260B	05/26/08	1	
4-Bromofluorobenzene	93.9		0.00100	% Rec.	8260B	05/26/08	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
Note:
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Reported: 06/03/08 14:49 Revised: 06/06/08 11:42

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L346603-01	Cobalt	J
	Vanadium	J
	Beryllium	J
	Sulfide	J
L346603-02	Zinc	J
L346603-03	Chromium	J
	Cobalt	J
	Vanadium	J
	Antimony	J
	Beryllium	J
	Selenium	J
	Cyanide	J
	Sulfide	J
L346603-04	Selenium	J
	Benzylbutyl phthalate	J3
	Di-n-butyl phthalate	J3
	Diethyl phthalate	J3
	Dimethyl phthalate	J3
L346603-05	Cyanide	J
	Sulfide	J
L346603-06	Nickel	J
	Arsenic	J
	Selenium	J
	Sulfide	J
	Benzylbutyl phthalate	J3
	Di-n-butyl phthalate	J3
	Diethyl phthalate	J3
	Dimethyl phthalate	J3
	Chlorobenzene	J
	1,2-Dichlorobenzene	J
	cis-1,2-Dichloroethene	E
L346603-07	Arsenic	J
	Sulfide	J
	Benzylbutyl phthalate	J3
	Di-n-butyl phthalate	J3
	Diethyl phthalate	J3
	Dimethyl phthalate	J3
	n-Nitrosodi-n-butylamine	J
	Toluene	J
L346603-08	Cobalt	J
	Zinc	J
	Benzylbutyl phthalate	J3
	Di-n-butyl phthalate	J3
	Diethyl phthalate	J3
	Dimethyl phthalate	J3
	n-Nitrosodi-n-butylamine	J
L346603-09	Nickel	J
	Arsenic	J
	2-Methylphenol	J3
	3&4-methyl phenol	J3
	2,4-Dimethylphenol	J3J4
	Phenol-d5	J2
	2-Fluorophenol	J2
	Chlorobenzene	J
	1,2-Dichlorobenzene	J
	cis-1,2-Dichloroethene	E
L346603-10	Benzylbutyl phthalate	J3
	Di-n-butyl phthalate	J3
	Diethyl phthalate	J3
	Dimethyl phthalate	J3
	n-Nitrosodi-n-butylamine	J
	Acetone	J
	Toluene	J
L346603-11	Fluoride	J
L346603-12	Lead	J
	Vanadium	J
	Antimony	J
	Beryllium	J
L346603-13	Antimony	J

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	Chloroform	J
L346603-14	Antimony	J
	Chloroform	J
L346603-15	Acetone	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
E	GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.

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 Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography 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.

Summary of Remarks For Samples Printed
06/06/08 at 11:42:12

TSR Signing Reports: 690
R5 - Desired TAT

Sample: L346603-01 Account: SMERLNC Received: 05/21/08 07:45 Due Date: 06/05/08 00:00 RPT Date: 06/03/08 14:49
LOW LEVEL RDL's + EDD =SWSL NCLF Filter for dissolved metals.
Sample: L346603-02 Account: SMERLNC Received: 05/21/08 07:45 Due Date: 06/05/08 00:00 RPT Date: 06/03/08 14:49
Filter for dissolved metals. LOW LEVEL RDL's + EDD =SWSL NCLF
Sample: L346603-03 Account: SMERLNC Received: 05/21/08 07:45 Due Date: 06/05/08 00:00 RPT Date: 06/03/08 14:49
Filter for dissolved metals. LOW LEVEL RDL's + EDD =SWSL NCLF
Sample: L346603-04 Account: SMERLNC Received: 05/21/08 07:45 Due Date: 06/05/08 00:00 RPT Date: 06/03/08 14:49
Filter for dissolved metals. LOW LEVEL RDL's + EDD =SWSL NCLF
Sample: L346603-05 Account: SMERLNC Received: 05/21/08 07:45 Due Date: 06/05/08 00:00 RPT Date: 06/03/08 14:49
Filter for dissolved metals. LOW LEVEL RDL's + EDD =SWSL NCLF
Sample: L346603-06 Account: SMERLNC Received: 05/21/08 07:45 Due Date: 06/05/08 00:00 RPT Date: 06/03/08 14:49
Filter for dissolved metals. LOW LEVEL RDL's + EDD =SWSL NCLF
Sample: L346603-07 Account: SMERLNC Received: 05/21/08 07:45 Due Date: 06/05/08 00:00 RPT Date: 06/03/08 14:49
Filter for dissolved metals. LOW LEVEL RDL's + EDD =SWSL NCLF
Sample: L346603-08 Account: SMERLNC Received: 05/21/08 07:45 Due Date: 06/05/08 00:00 RPT Date: 06/03/08 14:49
Filter for dissolved metals. LOW LEVEL RDL's + EDD =SWSL NCLF
Sample: L346603-09 Account: SMERLNC Received: 05/21/08 07:45 Due Date: 06/05/08 00:00 RPT Date: 06/03/08 14:49
Filter for dissolved metals. LOW LEVEL RDL's + EDD =SWSL NCLF
Sample: L346603-10 Account: SMERLNC Received: 05/21/08 07:45 Due Date: 06/05/08 00:00 RPT Date: 06/03/08 14:49
Filter for dissolved metals. LOW LEVEL RDL's + EDD =SWSL NCLF
Sample: L346603-11 Account: SMERLNC Received: 05/21/08 07:45 Due Date: 06/05/08 00:00 RPT Date: 06/03/08 14:49
LOW LEVEL RDL's + EDD =SWSL NCLF
Sample: L346603-12 Account: SMERLNC Received: 05/21/08 07:45 Due Date: 06/05/08 00:00 RPT Date: 06/03/08 14:49
LOW LEVEL RDL's + EDD =SWSL NCLF
Sample: L346603-13 Account: SMERLNC Received: 05/21/08 07:45 Due Date: 06/05/08 00:00 RPT Date: 06/03/08 14:49
LOW LEVEL RDL's + EDD =SWSL NCLF
Sample: L346603-14 Account: SMERLNC Received: 05/21/08 07:45 Due Date: 06/05/08 00:00 RPT Date: 06/03/08 14:49
LOW LEVEL RDL's + EDD =SWSL NCLF
Sample: L346603-15 Account: SMERLNC Received: 05/21/08 07:45 Due Date: 06/05/08 00:00 RPT Date: 06/03/08 14:49
LOW LEVEL RDL's + EDD =SWSL NCLF

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Est. 1970

S&ME Inc. - Raleigh NC
Jerry Paul
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L346603

June 06, 2008

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
4,4-DDD	< .0005	mg/l	05/23/08 16:00	WG362348
4,4-DDE	< .0005	mg/l	05/23/08 16:00	WG362348
4,4-DDT	< .0005	mg/l	05/23/08 16:00	WG362348
Aldrin	< .0005	mg/l	05/23/08 16:00	WG362348
Alpha BHC	< .0005	mg/l	05/23/08 16:00	WG362348
Beta BHC	< .0005	mg/l	05/23/08 16:00	WG362348
Delta BHC	< .0005	mg/l	05/23/08 16:00	WG362348
Dieldrin	< .0005	mg/l	05/23/08 16:00	WG362348
Endosulfan I	< .0005	mg/l	05/23/08 16:00	WG362348
Endosulfan II	< .0005	mg/l	05/23/08 16:00	WG362348
Endosulfan sulfate	< .0005	mg/l	05/23/08 16:00	WG362348
Endrin	< .0005	mg/l	05/23/08 16:00	WG362348
Endrin aldehyde	< .0005	mg/l	05/23/08 16:00	WG362348
Gamma BHC	< .0005	mg/l	05/23/08 16:00	WG362348
Heptachlor	< .0005	mg/l	05/23/08 16:00	WG362348
Heptachlor epoxide	< .0005	mg/l	05/23/08 16:00	WG362348
Hexachlorobenzene	< .0005	mg/l	05/23/08 16:00	WG362348
Methoxychlor	< .0005	mg/l	05/23/08 16:00	WG362348
PCB 1260	< .0005	mg/l	05/23/08 23:03	WG362348
1,2,4,5-Tetrachlorobenzene	< .05	ppm	05/22/08 12:33	WG362370
1,2,4-Trichlorobenzene	< .01	ppm	05/22/08 12:33	WG362370
2,4,5-Trichlorophenol	< .01	ppm	05/22/08 12:33	WG362370
2,4,6-Trichlorophenol	< .01	ppm	05/22/08 12:33	WG362370
2,4-Dichlorophenol	< .01	ppm	05/22/08 12:33	WG362370
2,4-Dimethylphenol	< .01	ppm	05/22/08 12:33	WG362370
2,4-Dinitrophenol	< .01	ppm	05/22/08 12:33	WG362370
2,4-Dinitrotoluene	< .01	ppm	05/22/08 12:33	WG362370
2,6-Dinitrotoluene	< .01	ppm	05/22/08 12:33	WG362370
2-Chloronaphthalene	< .01	ppm	05/22/08 12:33	WG362370
2-Chlorophenol	< .01	ppm	05/22/08 12:33	WG362370
2-Methylnaphthalene	< .01	ppm	05/22/08 12:33	WG362370
2-Methylphenol	< .01	ppm	05/22/08 12:33	WG362370
2-Nitroaniline	< .01	ppm	05/22/08 12:33	WG362370
2-Nitrophenol	< .01	ppm	05/22/08 12:33	WG362370
3,3-Dichlorobenzidine	< .01	ppm	05/22/08 12:33	WG362370
3-Nitroaniline	< .01	ppm	05/22/08 12:33	WG362370
4,6-Dinitro-2-methylphenol	< .01	ppm	05/22/08 12:33	WG362370
4-Bromophenyl-phenylether	< .01	ppm	05/22/08 12:33	WG362370
4-Chloro-3-methylphenol	< .01	ppm	05/22/08 12:33	WG362370
4-Chloroaniline	< .01	ppm	05/22/08 12:33	WG362370
4-Chlorophenyl-phenylether	< .01	ppm	05/22/08 12:33	WG362370
4-Nitroaniline	< .01	ppm	05/22/08 12:33	WG362370
4-Nitrophenol	< .01	ppm	05/22/08 12:33	WG362370
Acenaphthene	< .01	ppm	05/22/08 12:33	WG362370
Acenaphthylene	< .01	ppm	05/22/08 12:33	WG362370
Acetophenone	< .01	ppm	05/22/08 12:33	WG362370
Anthracene	< .01	ppm	05/22/08 12:33	WG362370
Benzo(a)anthracene	< .01	ppm	05/22/08 12:33	WG362370
Benzo(a)pyrene	< .01	ppm	05/22/08 12:33	WG362370
Benzo(b)fluoranthene	< .01	ppm	05/22/08 12:33	WG362370
Benzo(g,h,i)perylene	< .01	ppm	05/22/08 12:33	WG362370
Benzo(k)fluoranthene	< .01	ppm	05/22/08 12:33	WG362370
Benzyl alcohol	< .01	ppm	05/22/08 12:33	WG362370
Benzylbutyl phthalate	< .01	ppm	05/22/08 12:33	WG362370
Bis(2-chlorethoxy)methane	< .01	ppm	05/22/08 12:33	WG362370
Bis(2-chloroethyl)ether	< .01	ppm	05/22/08 12:33	WG362370
Bis(2-ethylhexyl)phthalate	< .01	ppm	05/22/08 12:33	WG362370
Chrysene	< .01	ppm	05/22/08 12:33	WG362370
Di-n-butyl phthalate	< .01	ppm	05/22/08 12:33	WG362370

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Quality Assurance Report
Level II

L346603

June 06, 2008

Di-n-octyl phthalate	< .01	ppm	05/22/08 12:33	WG362370

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
Dibenz(a,h)anthracene	< .01	ppm	05/22/08 12:33	WG362370
Dibenzofuran	< .01	ppm	05/22/08 12:33	WG362370
Diethyl phthalate	< .01	ppm	05/22/08 12:33	WG362370
Dimethyl phthalate	< .01	ppm	05/22/08 12:33	WG362370
Fluoranthene	< .01	ppm	05/22/08 12:33	WG362370
Fluorene	< .01	ppm	05/22/08 12:33	WG362370
Hexachloro-1,3-butadiene	< .01	ppm	05/22/08 12:33	WG362370
Hexachlorobenzene	< .01	ppm	05/22/08 12:33	WG362370
Hexachlorocyclopentadiene	< .01	ppm	05/22/08 12:33	WG362370
Hexachloroethane	< .01	ppm	05/22/08 12:33	WG362370
Indeno(1,2,3-cd)pyrene	< .01	ppm	05/22/08 12:33	WG362370
Isophorone	< .01	ppm	05/22/08 12:33	WG362370
3&4-methyl phenol	< .01	ppm	05/22/08 12:33	WG362370
n-Nitrosodi-n-propylamine	< .01	ppm	05/22/08 12:33	WG362370
n-Nitrosodimethylamine	< .05	ppm	05/22/08 12:33	WG362370
n-Nitrosodiphenylamine	< .01	ppm	05/22/08 12:33	WG362370
Naphthalene	< .01	ppm	05/22/08 12:33	WG362370
Nitrobenzene	< .01	ppm	05/22/08 12:33	WG362370
Pentachlorophenol	< .01	ppm	05/22/08 12:33	WG362370
Phenanthrene	< .01	ppm	05/22/08 12:33	WG362370
Phenol	< .01	ppm	05/22/08 12:33	WG362370
Pyrene	< .01	ppm	05/22/08 12:33	WG362370
Barium	< .005	mg/l	05/22/08 10:39	WG362463
Chromium	< .01	mg/l	05/22/08 10:39	WG362463
Cobalt	< .01	mg/l	05/22/08 10:39	WG362463
Lead	< .005	mg/l	05/22/08 10:39	WG362463
Nickel	< .02	mg/l	05/22/08 10:39	WG362463
Silver	< .01	mg/l	05/22/08 10:39	WG362463
Tin	< .02	mg/l	05/22/08 10:39	WG362463
Vanadium	< .01	mg/l	05/22/08 10:39	WG362463
1,2,4,5-Tetrachlorobenzene	< .05	ppm	05/23/08 12:46	WG362507
1,2,4-Trichlorobenzene	< .01	ppm	05/23/08 12:46	WG362507
2,4,5-Trichlorophenol	< .01	ppm	05/23/08 12:46	WG362507
2,4,6-Trichlorophenol	< .01	ppm	05/23/08 12:46	WG362507
2,4-Dichlorophenol	< .01	ppm	05/23/08 12:46	WG362507
2,4-Dimethylphenol	< .01	ppm	05/23/08 12:46	WG362507
2,4-Dinitrophenol	< .01	ppm	05/23/08 12:46	WG362507
2,4-Dinitrotoluene	< .01	ppm	05/23/08 12:46	WG362507
2,6-Dinitrotoluene	< .01	ppm	05/23/08 12:46	WG362507
2-Chloronaphthalene	< .01	ppm	05/23/08 12:46	WG362507
2-Chlorophenol	< .01	ppm	05/23/08 12:46	WG362507
2-Methylnaphthalene	< .01	ppm	05/24/08 13:21	WG362507
2-Methylphenol	< .01	ppm	05/23/08 12:46	WG362507
2-Nitroaniline	< .01	ppm	05/23/08 12:46	WG362507
2-Nitrophenol	< .01	ppm	05/23/08 12:46	WG362507
3,3-Dichlorobenzidine	< .01	ppm	05/23/08 12:46	WG362507
3-Nitroaniline	< .01	ppm	05/23/08 12:46	WG362507
4,6-Dinitro-2-methylphenol	< .01	ppm	05/23/08 12:46	WG362507
4-Bromophenyl-phenylether	< .01	ppm	05/23/08 12:46	WG362507
4-Chloro-3-methylphenol	< .01	ppm	05/23/08 12:46	WG362507
4-Chloroaniline	< .01	ppm	05/23/08 12:46	WG362507
4-Chlorophenyl-phenylether	< .01	ppm	05/23/08 12:46	WG362507
4-Nitroaniline	< .01	ppm	05/23/08 12:46	WG362507
4-Nitrophenol	< .01	ppm	05/23/08 12:46	WG362507
Acenaphthene	< .01	ppm	05/24/08 13:21	WG362507
Acenaphthylene	< .01	ppm	05/24/08 13:21	WG362507
Acetophenone	< .01	ppm	05/23/08 12:46	WG362507

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

S&ME Inc. - Raleigh NC
Jerry Paul
3201 Spring Forest Road
Raleigh, NC 27616

Quality Assurance Report
Level II

L346603

June 06, 2008

Anthracene	< .01	ppm	05/24/08 13:21	WG362507

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
Benzo(a)anthracene	< .01	ppm	05/24/08 13:21	WG362507
Benzo(a)pyrene	< .01	ppm	05/24/08 13:21	WG362507
Benzo(b)fluoranthene	< .01	ppm	05/24/08 13:21	WG362507
Benzo(g,h,i)perylene	< .01	ppm	05/24/08 13:21	WG362507
Benzo(k)fluoranthene	< .01	ppm	05/24/08 13:21	WG362507
Benzyl alcohol	< .01	ppm	05/23/08 12:46	WG362507
Benzylbutyl phthalate	< .01	ppm	05/23/08 12:46	WG362507
Bis(2-chlorethoxy)methane	< .01	ppm	05/23/08 12:46	WG362507
Bis(2-chloroethyl)ether	< .01	ppm	05/23/08 12:46	WG362507
Bis(2-ethylhexyl)phthalate	< .01	ppm	05/23/08 12:46	WG362507
Chrysene	< .01	ppm	05/24/08 13:21	WG362507
Di-n-butyl phthalate	< .01	ppm	05/23/08 12:46	WG362507
Di-n-octyl phthalate	< .01	ppm	05/23/08 12:46	WG362507
Dibenz(a,h)anthracene	< .01	ppm	05/24/08 13:21	WG362507
Dibenzofuran	< .01	ppm	05/23/08 12:46	WG362507
Diethyl phthalate	< .01	ppm	05/23/08 12:46	WG362507
Dimethyl phthalate	< .01	ppm	05/23/08 12:46	WG362507
Fluoranthene	< .01	ppm	05/24/08 13:21	WG362507
Fluorene	< .01	ppm	05/24/08 13:21	WG362507
Hexachloro-1,3-butadiene	< .01	ppm	05/23/08 12:46	WG362507
Hexachlorobenzene	< .01	ppm	05/23/08 12:46	WG362507
Hexachlorocyclopentadiene	< .01	ppm	05/23/08 12:46	WG362507
Hexachloroethane	< .01	ppm	05/23/08 12:46	WG362507
Indeno(1,2,3-cd)pyrene	< .01	ppm	05/24/08 13:21	WG362507
Isophorone	< .01	ppm	05/23/08 12:46	WG362507
3&4-methyl phenol	< .01	ppm	05/23/08 12:46	WG362507
n-Nitrosodi-n-propylamine	< .01	ppm	05/23/08 12:46	WG362507
n-Nitrosodimethylamine	< .05	ppm	05/23/08 12:46	WG362507
n-Nitrosodiphenylamine	< .01	ppm	05/23/08 12:46	WG362507
Naphthalene	< .01	ppm	05/24/08 13:21	WG362507
Nitrobenzene	< .01	ppm	05/23/08 12:46	WG362507
Pentachlorophenol	< .01	ppm	05/23/08 12:46	WG362507
Phenanthrene	< .01	ppm	05/24/08 13:21	WG362507
Phenol	< .01	ppm	05/23/08 12:46	WG362507
Pyrene	< .01	ppm	05/24/08 13:21	WG362507
2,4,5-T	< .002	mg/l	05/23/08 18:26	WG362521
2,4,5-TP (Silvex)	< .002	mg/l	05/23/08 18:26	WG362521
2,4-D	< .002	mg/l	05/23/08 18:26	WG362521
Dinoseb	< .002	mg/l	05/23/08 18:26	WG362521
Barium	< .005	mg/l	05/23/08 02:35	WG362532
Chromium	< .01	mg/l	05/23/08 02:35	WG362532
Cobalt	< .01	mg/l	05/23/08 02:35	WG362532
Lead	< .005	mg/l	05/23/08 02:35	WG362532
Nickel	< .02	mg/l	05/23/08 02:35	WG362532
Silver	< .01	mg/l	05/23/08 02:35	WG362532
Tin	< .02	mg/l	05/23/08 02:35	WG362532
Vanadium	< .01	mg/l	05/23/08 02:35	WG362532
1,2-Dibromo-3-Chloropropane	< .00002	mg/l	05/27/08 11:28	WG362533
Ethylene Dibromide	< .00001	mg/l	05/27/08 11:28	WG362533
1,2-Dibromo-3-Chloropropane	< .00002	mg/l	05/27/08 18:49	WG362534
Ethylene Dibromide	< .00001	mg/l	05/27/08 18:49	WG362534
Antimony	< .001	mg/l	05/23/08 13:16	WG362561
Arsenic	< .001	mg/l	05/23/08 23:31	WG362561
Beryllium	< .001	mg/l	05/23/08 13:16	WG362561

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Quality Assurance Report
Level II

L346603

June 06, 2008

Cadmium	< .0005	mg/l	05/23/08 13:16	WG362561

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
Copper	< .001	mg/l	05/23/08 13:16	WG362561
Selenium	< .001	mg/l	05/23/08 13:16	WG362561
Thallium	< .001	mg/l	05/23/08 13:16	WG362561
Zinc	< .01	mg/l	05/23/08 13:16	WG362561
Mercury	< .0002	mg/l	05/25/08 11:24	WG362574
Fluoride	< .1	mg/l	05/22/08 22:05	WG362585
Mercury	< .0002	mg/l	05/25/08 10:12	WG362800
Sulfide	< .05	mg/l	05/27/08 05:39	WG362813
1,2,4,5-Tetrachlorobenzene	< .05	ppm	05/26/08 22:59	WG362957
1,2,4-Trichlorobenzene	< .01	ppm	05/26/08 22:59	WG362957
2,4,5-Trichlorophenol	< .01	ppm	05/26/08 22:59	WG362957
2,4,6-Trichlorophenol	< .01	ppm	05/26/08 22:59	WG362957
2,4-Dichlorophenol	< .01	ppm	05/26/08 22:59	WG362957
2,4-Dimethylphenol	< .01	ppm	05/26/08 22:59	WG362957
2,4-Dinitrophenol	< .01	ppm	05/26/08 22:59	WG362957
2,4-Dinitrotoluene	< .01	ppm	05/26/08 22:59	WG362957
2,6-Dinitrotoluene	< .01	ppm	05/26/08 22:59	WG362957
2-Chloronaphthalene	< .01	ppm	05/26/08 22:59	WG362957
2-Chlorophenol	< .01	ppm	05/26/08 22:59	WG362957
2-Methylnaphthalene	< .01	ppm	05/26/08 22:59	WG362957
2-Methylphenol	< .01	ppm	05/26/08 22:59	WG362957
2-Nitroaniline	< .01	ppm	05/26/08 22:59	WG362957
2-Nitrophenol	< .01	ppm	05/26/08 22:59	WG362957
3,3-Dichlorobenzidine	< .01	ppm	05/26/08 22:59	WG362957
3-Nitroaniline	< .01	ppm	05/26/08 22:59	WG362957
4,6-Dinitro-2-methylphenol	< .01	ppm	05/26/08 22:59	WG362957
4-Bromophenyl-phenylether	< .01	ppm	05/26/08 22:59	WG362957
4-Chloro-3-methylphenol	< .01	ppm	05/26/08 22:59	WG362957
4-Chloroaniline	< .01	ppm	05/26/08 22:59	WG362957
4-Chlorophenyl-phenylether	< .01	ppm	05/26/08 22:59	WG362957
4-Nitroaniline	< .01	ppm	05/26/08 22:59	WG362957
4-Nitrophenol	< .01	ppm	05/26/08 22:59	WG362957
Acenaphthene	< .01	ppm	05/26/08 22:59	WG362957
Acenaphthylene	< .01	ppm	05/26/08 22:59	WG362957
Acetophenone	< .01	ppm	05/26/08 22:59	WG362957
Anthracene	< .01	ppm	05/26/08 22:59	WG362957
Benzo(a)anthracene	< .01	ppm	05/26/08 22:59	WG362957
Benzo(a)pyrene	< .01	ppm	05/26/08 22:59	WG362957
Benzo(b)fluoranthene	< .01	ppm	05/26/08 22:59	WG362957
Benzo(g,h,i)perylene	< .01	ppm	05/26/08 22:59	WG362957
Benzo(k)fluoranthene	< .01	ppm	05/26/08 22:59	WG362957
Benzyl alcohol	< .01	ppm	05/26/08 22:59	WG362957
Benzylbutyl phthalate	< .01	ppm	05/26/08 22:59	WG362957
Bis(2-chlorethoxy)methane	< .01	ppm	05/26/08 22:59	WG362957
Bis(2-chloroethyl)ether	< .01	ppm	05/26/08 22:59	WG362957
Bis(2-ethylhexyl)phthalate	< .01	ppm	05/26/08 22:59	WG362957
Chrysene	< .01	ppm	05/26/08 22:59	WG362957
Di-n-butyl phthalate	< .01	ppm	05/26/08 22:59	WG362957
Di-n-octyl phthalate	< .01	ppm	05/26/08 22:59	WG362957
Dibenz(a,h)anthracene	< .01	ppm	05/26/08 22:59	WG362957
Dibenzofuran	< .01	ppm	05/26/08 22:59	WG362957
Diethyl phthalate	< .01	ppm	05/26/08 22:59	WG362957
Dimethyl phthalate	< .01	ppm	05/26/08 22:59	WG362957
Fluoranthene	< .01	ppm	05/26/08 22:59	WG362957

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Quality Assurance Report
Level II

June 06, 2008

L346603

Fluorene	< .01	ppm	05/26/08 22:59	WG362957

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
Hexachloro-1,3-butadiene	< .01	ppm	05/26/08 22:59	WG362957
Hexachlorobenzene	< .01	ppm	05/26/08 22:59	WG362957
Hexachlorocyclopentadiene	< .01	ppm	05/26/08 22:59	WG362957
Hexachloroethane	< .01	ppm	05/26/08 22:59	WG362957
Indeno(1,2,3-cd)pyrene	< .01	ppm	05/26/08 22:59	WG362957
Isophorone	< .01	ppm	05/26/08 22:59	WG362957
3&4-methyl phenol	< .01	ppm	05/26/08 22:59	WG362957
n-Nitrosodi-n-propylamine	< .01	ppm	05/26/08 22:59	WG362957
n-Nitrosodimethylamine	< .05	ppm	05/26/08 22:59	WG362957
n-Nitrosodiphenylamine	< .01	ppm	05/26/08 22:59	WG362957
Naphthalene	< .01	ppm	05/26/08 22:59	WG362957
Nitrobenzene	< .01	ppm	05/26/08 22:59	WG362957
Pentachlorophenol	< .01	ppm	05/26/08 22:59	WG362957
Phenanthrene	< .01	ppm	05/26/08 22:59	WG362957
Phenol	< .01	ppm	05/26/08 22:59	WG362957
Pyrene	< .01	ppm	05/26/08 22:59	WG362957
Cyanide	< .005	mg/l	05/29/08 09:15	WG363113
1,1,1,2-Tetrachloroethane	< .001	mg/l	05/26/08 11:27	WG363147
1,1,1-Trichloroethane	< .001	mg/l	05/26/08 11:27	WG363147
1,1,2,2-Tetrachloroethane	< .001	mg/l	05/26/08 11:27	WG363147
1,1,2-Trichloroethane	< .001	mg/l	05/26/08 11:27	WG363147
1,1-Dichloroethane	< .001	mg/l	05/26/08 11:27	WG363147
1,1-Dichloroethene	< .001	mg/l	05/26/08 11:27	WG363147
1,2,3-Trichloropropane	< .001	mg/l	05/26/08 11:27	WG363147
1,2-Dichlorobenzene	< .001	mg/l	05/26/08 11:27	WG363147
1,2-Dichloroethane	< .001	mg/l	05/26/08 11:27	WG363147
1,2-Dichloropropane	< .001	mg/l	05/26/08 11:27	WG363147
1,4-Dichlorobenzene	< .001	mg/l	05/26/08 11:27	WG363147
2-Butanone (MEK)	< .01	mg/l	05/26/08 11:27	WG363147
2-Hexanone	< .01	mg/l	05/26/08 11:27	WG363147
4-Methyl-2-pentanone (MIBK)	< .01	mg/l	05/26/08 11:27	WG363147
Acetone	< .05	mg/l	05/26/08 11:27	WG363147
Acrylonitrile	< .01	mg/l	05/26/08 11:27	WG363147
Benzene	< .001	mg/l	05/26/08 11:27	WG363147
Bromochloromethane	< .001	mg/l	05/26/08 11:27	WG363147
Bromodichloromethane	< .001	mg/l	05/26/08 11:27	WG363147
Bromoform	< .001	mg/l	05/26/08 11:27	WG363147
Bromomethane	< .005	mg/l	05/26/08 11:27	WG363147
Carbon disulfide	< .001	mg/l	05/26/08 11:27	WG363147
Carbon tetrachloride	< .001	mg/l	05/26/08 11:27	WG363147
Chlorobenzene	< .001	mg/l	05/26/08 11:27	WG363147
Chlorodibromomethane	< .001	mg/l	05/26/08 11:27	WG363147
Chloroethane	< .001	mg/l	05/26/08 11:27	WG363147
Chloroform	< .005	mg/l	05/26/08 11:27	WG363147
Chloromethane	< .001	mg/l	05/26/08 11:27	WG363147
cis-1,2-Dichloroethene	< .001	mg/l	05/26/08 11:27	WG363147
cis-1,3-Dichloropropene	< .001	mg/l	05/26/08 11:27	WG363147
Dibromomethane	< .001	mg/l	05/26/08 11:27	WG363147
Ethylbenzene	< .001	mg/l	05/26/08 11:27	WG363147
Iodomethane	< .01	mg/l	05/26/08 11:27	WG363147
Methylene Chloride	< .005	mg/l	05/26/08 11:27	WG363147
Styrene	< .001	mg/l	05/26/08 11:27	WG363147
Tetrachloroethene	< .001	mg/l	05/26/08 11:27	WG363147
Toluene	< .005	mg/l	05/26/08 11:27	WG363147
trans-1,2-Dichloroethene	< .001	mg/l	05/26/08 11:27	WG363147
trans-1,3-Dichloropropene	< .001	mg/l	05/26/08 11:27	WG363147
trans-1,4-Dichloro-2-butene	< .0025	mg/l	05/26/08 11:27	WG363147

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Quality Assurance Report
Level II

June 06, 2008

L346603

Trichloroethene	< .001	mg/l	05/26/08 11:27	WG363147

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
Trichlorofluoromethane	< .005	mg/l	05/26/08 11:27	WG363147
Vinyl acetate	< .01	mg/l	05/26/08 11:27	WG363147
Vinyl chloride	< .001	mg/l	05/26/08 11:27	WG363147
Xylenes, Total	< .003	mg/l	05/26/08 11:27	WG363147
1,1,1,2-Tetrachloroethane	< .001	mg/l	05/26/08 17:13	WG363160
1,1,1-Trichloroethane	< .001	mg/l	05/26/08 17:13	WG363160
1,1,2,2-Tetrachloroethane	< .001	mg/l	05/26/08 17:13	WG363160
1,1,2-Trichloroethane	< .001	mg/l	05/26/08 17:13	WG363160
1,1-Dichloroethane	< .001	mg/l	05/26/08 17:13	WG363160
1,1-Dichloroethene	< .001	mg/l	05/26/08 17:13	WG363160
1,1-Dichloropropene	< .001	mg/l	05/26/08 17:13	WG363160
1,2,3-Trichloropropane	< .001	mg/l	05/26/08 17:13	WG363160
1,2,4-Trichlorobenzene	< .001	mg/l	05/26/08 17:13	WG363160
1,2-Dibromo-3-Chloropropane	< .005	mg/l	05/26/08 17:13	WG363160
1,2-Dibromoethane	< .001	mg/l	05/26/08 17:13	WG363160
1,2-Dichlorobenzene	< .001	mg/l	05/26/08 17:13	WG363160
1,2-Dichloroethane	< .001	mg/l	05/26/08 17:13	WG363160
1,2-Dichloropropane	< .001	mg/l	05/26/08 17:13	WG363160
1,3-Dichlorobenzene	< .001	mg/l	05/26/08 17:13	WG363160
1,3-Dichloropropane	< .001	mg/l	05/26/08 17:13	WG363160
1,4-Dichlorobenzene	< .001	mg/l	05/26/08 17:13	WG363160
2,2-Dichloropropane	< .001	mg/l	05/26/08 17:13	WG363160
2-Butanone (MEK)	< .01	mg/l	05/26/08 17:13	WG363160
2-Hexanone	< .01	mg/l	05/26/08 17:13	WG363160
4-Methyl-2-pentanone (MIBK)	< .01	mg/l	05/26/08 17:13	WG363160
Acetone	< .05	mg/l	05/26/08 17:13	WG363160
Acrolein	< .05	mg/l	05/26/08 17:13	WG363160
Acrylonitrile	< .01	mg/l	05/26/08 17:13	WG363160
Allyl chloride	< .005	mg/l	05/26/08 17:13	WG363160
Benzene	< .001	mg/l	05/26/08 17:13	WG363160
Bromochloromethane	< .001	mg/l	05/26/08 17:13	WG363160
Bromodichloromethane	< .001	mg/l	05/26/08 17:13	WG363160
Bromoform	< .001	mg/l	05/26/08 17:13	WG363160
Bromomethane	< .005	mg/l	05/26/08 17:13	WG363160
Carbon disulfide	< .001	mg/l	05/26/08 17:13	WG363160
Carbon tetrachloride	< .001	mg/l	05/26/08 17:13	WG363160
Chlorobenzene	< .001	mg/l	05/26/08 17:13	WG363160
Chlorodibromomethane	< .001	mg/l	05/26/08 17:13	WG363160
Chloroethane	< .001	mg/l	05/26/08 17:13	WG363160
Chloroform	< .005	mg/l	05/26/08 17:13	WG363160
Chloromethane	< .001	mg/l	05/26/08 17:13	WG363160
cis-1,2-Dichloroethene	< .001	mg/l	05/26/08 17:13	WG363160
cis-1,3-Dichloropropene	< .001	mg/l	05/26/08 17:13	WG363160
Dibromomethane	< .001	mg/l	05/26/08 17:13	WG363160
Dichlorodifluoromethane	< .005	mg/l	05/26/08 17:13	WG363160
Ethylbenzene	< .001	mg/l	05/26/08 17:13	WG363160
Iodomethane	< .01	mg/l	05/26/08 17:13	WG363160
Methylene Chloride	< .005	mg/l	05/26/08 17:13	WG363160
Styrene	< .001	mg/l	05/26/08 17:13	WG363160
Tetrachloroethene	< .001	mg/l	05/26/08 17:13	WG363160
Toluene	< .005	mg/l	05/26/08 17:13	WG363160
trans-1,2-Dichloroethene	< .001	mg/l	05/26/08 17:13	WG363160
trans-1,3-Dichloropropene	< .001	mg/l	05/26/08 17:13	WG363160
trans-1,4-Dichloro-2-butene	< .0025	mg/l	05/26/08 17:13	WG363160
Trichloroethene	< .001	mg/l	05/26/08 17:13	WG363160
Trichlorofluoromethane	< .005	mg/l	05/26/08 17:13	WG363160
Vinyl acetate	< .01	mg/l	05/26/08 17:13	WG363160
Vinyl chloride	< .001	mg/l	05/26/08 17:13	WG363160

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Quality Assurance Report
Level II

L346603

June 06, 2008

Xylenes, Total	< .003	mg/l	05/26/08 17:13	WG363160

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
1,1,1,2-Tetrachloroethane	< .001	mg/l	05/26/08 21:37	WG363162
1,1,1-Trichloroethane	< .001	mg/l	05/26/08 21:37	WG363162
1,1,2,2-Tetrachloroethane	< .001	mg/l	05/26/08 21:37	WG363162
1,1,2-Trichloroethane	< .001	mg/l	05/26/08 21:37	WG363162
1,1-Dichloroethane	< .001	mg/l	05/26/08 21:37	WG363162
1,1-Dichloroethene	< .001	mg/l	05/26/08 21:37	WG363162
1,1-Dichloropropene	< .001	mg/l	05/26/08 21:37	WG363162
1,2,3-Trichloropropane	< .001	mg/l	05/26/08 21:37	WG363162
1,2,4-Trichlorobenzene	< .001	mg/l	05/26/08 21:37	WG363162
1,2-Dibromo-3-Chloropropane	< .005	mg/l	05/26/08 21:37	WG363162
1,2-Dibromoethane	< .001	mg/l	05/26/08 21:37	WG363162
1,2-Dichlorobenzene	< .001	mg/l	05/26/08 21:37	WG363162
1,2-Dichloroethane	< .001	mg/l	05/26/08 21:37	WG363162
1,2-Dichloropropane	< .001	mg/l	05/26/08 21:37	WG363162
1,3-Dichlorobenzene	< .001	mg/l	05/26/08 21:37	WG363162
1,3-Dichloropropane	< .001	mg/l	05/26/08 21:37	WG363162
1,4-Dichlorobenzene	< .001	mg/l	05/26/08 21:37	WG363162
2,2-Dichloropropane	< .001	mg/l	05/26/08 21:37	WG363162
2-Butanone (MEK)	< .01	mg/l	05/26/08 21:37	WG363162
2-Hexanone	< .01	mg/l	05/26/08 21:37	WG363162
4-Methyl-2-pentanone (MIBK)	< .01	mg/l	05/26/08 21:37	WG363162
Acetone	< .05	mg/l	05/26/08 21:37	WG363162
Acrolein	< .05	mg/l	05/26/08 21:37	WG363162
Acrylonitrile	< .01	mg/l	05/26/08 21:37	WG363162
Allyl chloride	< .005	mg/l	05/26/08 21:37	WG363162
Benzene	< .001	mg/l	05/26/08 21:37	WG363162
Bromochloromethane	< .001	mg/l	05/26/08 21:37	WG363162
Bromodichloromethane	< .001	mg/l	05/26/08 21:37	WG363162
Bromoform	< .001	mg/l	05/26/08 21:37	WG363162
Bromomethane	< .005	mg/l	05/26/08 21:37	WG363162
Carbon disulfide	< .001	mg/l	05/26/08 21:37	WG363162
Carbon tetrachloride	< .001	mg/l	05/26/08 21:37	WG363162
Chlorobenzene	< .001	mg/l	05/26/08 21:37	WG363162
Chlorodibromomethane	< .001	mg/l	05/26/08 21:37	WG363162
Chloroethane	< .001	mg/l	05/26/08 21:37	WG363162
Chloroform	< .005	mg/l	05/26/08 21:37	WG363162
Chloromethane	< .001	mg/l	05/26/08 21:37	WG363162
cis-1,2-Dichloroethene	< .001	mg/l	05/26/08 21:37	WG363162
cis-1,3-Dichloropropene	< .001	mg/l	05/26/08 21:37	WG363162
Dibromomethane	< .001	mg/l	05/26/08 21:37	WG363162
Dichlorodifluoromethane	< .005	mg/l	05/26/08 21:37	WG363162
Ethylbenzene	< .001	mg/l	05/26/08 21:37	WG363162
Iodomethane	< .01	mg/l	05/26/08 21:37	WG363162
Methylene Chloride	< .005	mg/l	05/26/08 21:37	WG363162
Styrene	< .001	mg/l	05/26/08 21:37	WG363162
Tetrachloroethene	< .001	mg/l	05/26/08 21:37	WG363162
Toluene	< .005	mg/l	05/26/08 21:37	WG363162
trans-1,2-Dichloroethene	< .001	mg/l	05/26/08 21:37	WG363162
trans-1,3-Dichloropropene	< .001	mg/l	05/26/08 21:37	WG363162
trans-1,4-Dichloro-2-butene	< .0025	mg/l	05/26/08 21:37	WG363162
Trichloroethene	< .001	mg/l	05/26/08 21:37	WG363162
Trichlorofluoromethane	< .005	mg/l	05/26/08 21:37	WG363162
Vinyl acetate	< .01	mg/l	05/26/08 21:37	WG363162
Vinyl chloride	< .001	mg/l	05/26/08 21:37	WG363162
Xylenes, Total	< .003	mg/l	05/26/08 21:37	WG363162
1,2-Dibromo-3-Chloropropane	< .00002	mg/l	05/29/08 11:58	WG363394
Ethylene Dibromide	< .00001	mg/l	05/29/08 11:58	WG363394

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3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L346603

June 06, 2008

Cyanide	< .005	mg/l	06/05/08 14:52	WG364599

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Barium	mg/l	0.0244	0.0240	1.65	20	L346579-08	WG362463
Chromium	mg/l	0.00	0.00	0.00	20	L346579-08	WG362463
Cobalt	mg/l	0.00	0.00	0.00	20	L346579-08	WG362463
Lead	mg/l	0.00	0.00	0.00	20	L346579-08	WG362463
Nickel	mg/l	0.00	0.00	0.00	20	L346579-08	WG362463
Silver	mg/l	0.00	0.00	0.00	20	L346579-08	WG362463
Tin	mg/l	0.00	0.00550	NA	20	L346579-08	WG362463
Vanadium	mg/l	0.00	0.00100	NA	20	L346579-08	WG362463
Barium	mg/l	0.0508	0.0500	1.59	20	L346617-04	WG362532
Chromium	mg/l	0.00	0.00	0.00	20	L346617-04	WG362532
Cobalt	mg/l	0.00	0.00320	NA	20	L346617-04	WG362532
Lead	mg/l	0.00	0.00	0.00	20	L346617-04	WG362532
Nickel	mg/l	0.00	0.00190	NA	20	L346617-04	WG362532
Silver	mg/l	0.00	0.00	0.00	20	L346617-04	WG362532
Tin	mg/l	0.00	0.00	0.00	20	L346617-04	WG362532
Vanadium	mg/l	0.00	0.00340	NA	20	L346617-04	WG362532
1,2-Dibromo-3-Chloropropane	mg/l	0.00	0.00	0.00	50	L346603-06	WG362533
Ethylene Dibromide	mg/l	0.00	0.00	0.00	50	L346603-06	WG362533
1,2-Dibromo-3-Chloropropane	mg/l	0.00	0.00	0.00	50	L346603-09	WG362534
Ethylene Dibromide	mg/l	0.00	0.00	0.00	50	L346603-09	WG362534
Antimony	mg/l	0.00	0.00	0.00	20	L346603-10	WG362561
Arsenic	mg/l	0.00	0.00	0.00	20	L346603-10	WG362561
Beryllium	mg/l	0.00	0.00	0.00	20	L346603-10	WG362561
Cadmium	mg/l	0.00	0.00	0.00	20	L346603-10	WG362561
Copper	mg/l	0.00216	0.00570	90.1	20	L346603-10	WG362561
Selenium	mg/l	0.00	0.00	0.00	20	L346603-10	WG362561
Thallium	mg/l	0.00	0.00	0.00	20	L346603-10	WG362561
Zinc	mg/l	0.00	0.00	0.00	20	L346603-10	WG362561
Mercury	mg/l	0.00	0.00	0.00	20	L346603-02	WG362574
Fluoride	mg/l	0.263	0.299	12.8	20	L346505-08	WG362585
Fluoride	mg/l	0.128	0.132	3.08	20	L346617-05	WG362585
Mercury	mg/l	0.00061	0.00062	1.63	20	L346824-02	WG362800
Sulfide	mg/l	0.00	0.00	0.00	20	L346661-02	WG362813
Sulfide	mg/l	0.00	0.0270	NA	20	L346603-01	WG362813
Cyanide	mg/l	0.00	0.00	0.00	20	L346906-02	WG363113
Cyanide	mg/l	0.0222	0.0220	0.905	20	L346586-02	WG363113
1,2-Dibromo-3-Chloropropane	mg/l	0.00	0.00	0.00	50	L347040-06	WG363394
Ethylene Dibromide	mg/l	0.00	0.00	0.00	50	L347040-06	WG363394
Cyanide	mg/l	0.00	0.00	0.00	20	L346603-06	WG364599
Cyanide	mg/l	0.00	0.00	0.00	20	L346603-09	WG364599

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
4,4-DDD	mg/l	.0002	0.000146	72.8	37-142	WG362348
4,4-DDE	mg/l	.0002	0.000135	67.4	33-124	WG362348
4,4-DDT	mg/l	.0002	0.000128	63.9	32-143	WG362348
Aldrin	mg/l	.0002	0.000109	54.3	25-115	WG362348

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June 06, 2008

Alpha BHC	mg/l	.0002	0.000105	52.3	38-119	WG362348

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Beta BHC	mg/l	.0002	0.000128	63.9	42-126	WG362348
Delta BHC	mg/l	.0002	0.000105	52.6	24-141	WG362348
Dieldrin	mg/l	.0002	0.000140	69.9	37-130	WG362348
Endosulfan I	mg/l	.0002	0.000174	87.2	37-125	WG362348
Endosulfan II	mg/l	.0002	0.000136	68.2	38-131	WG362348
Endosulfan sulfate	mg/l	.0002	0.000149	74.4	38-131	WG362348
Endrin	mg/l	.0002	0.000129	64.5	37-126	WG362348
Endrin aldehyde	mg/l	.0002	0.000137	68.7	24-154	WG362348
Gamma BHC	mg/l	.0002	0.000109	54.7	35-114	WG362348
Heptachlor	mg/l	.0002	0.000135	67.4	21-123	WG362348
Heptachlor epoxide	mg/l	.0002	0.000128	63.8	38-121	WG362348
Hexachlorobenzene	mg/l	.0002	0.000141	70.6	28-115	WG362348
Methoxychlor	mg/l	.0002	0.000135	67.6	55-150	WG362348
PCB 1260	mg/l	.0005	0.000324	64.8	46-126	WG362348
1,2,4,5-Tetrachlorobenzene	ppm	.01	0.00762	76.2	39-116	WG362370
1,2,4-Trichlorobenzene	ppm	.01	0.00638	63.8	26-103	WG362370
2,4,5-Trichlorophenol	ppm	.01	0.00733	73.3	48-120	WG362370
2,4,6-Trichlorophenol	ppm	.01	0.00741	74.1	49-118	WG362370
2,4-Dichlorophenol	ppm	.01	0.00692	69.2	46-115	WG362370
2,4-Dimethylphenol	ppm	.01	0.00812	81.2	40-124	WG362370
2,4-Dinitrophenol	ppm	.01	0.00635	63.5	10-125	WG362370
2,4-Dinitrotoluene	ppm	.01	0.00872	87.2	56-128	WG362370
2,6-Dinitrotoluene	ppm	.01	0.00824	82.4	56-121	WG362370
2-Chloronaphthalene	ppm	.01	0.00687	68.7	44-110	WG362370
2-Chlorophenol	ppm	.01	0.00669	66.9	38-114	WG362370
2-Methylnaphthalene	ppm	.01	0.00680	68.0	28-122	WG362370
2-Methylphenol	ppm	.01	0.00588	58.8	42-99	WG362370
2-Nitroaniline	ppm	.01	0.00828	82.8	55-124	WG362370
2-Nitrophenol	ppm	.01	0.00660	66.0	35-118	WG362370
3,3-Dichlorobenzidine	ppm	.01	0.00837	83.7	46-145	WG362370
3-Nitroaniline	ppm	.01	0.00783	78.3	39-141	WG362370
4,6-Dinitro-2-methylphenol	ppm	.01	0.00705	70.5	24-119	WG362370
4-Bromophenyl-phenylether	ppm	.01	0.00727	72.7	45-105	WG362370
4-Chloro-3-methylphenol	ppm	.01	0.00735	73.5	47-116	WG362370
4-Chloroaniline	ppm	.01	0.00846	84.6	21-151	WG362370
4-Chlorophenyl-phenylether	ppm	.01	0.00772	77.2	49-116	WG362370
4-Nitroaniline	ppm	.01	0.00810	81.0	43-144	WG362370
4-Nitrophenol	ppm	.01	0.00230	23.0	10-66	WG362370
Acenaphthene	ppm	.01	0.00702	70.2	48-110	WG362370
Acenaphthylene	ppm	.01	0.00731	73.1	48-113	WG362370
Acetophenone	ppm	.01	0.00660	66.0	35-98	WG362370
Anthracene	ppm	.01	0.00829	82.9	55-127	WG362370
Benzo(a)anthracene	ppm	.01	0.00836	83.6	57-115	WG362370
Benzo(a)pyrene	ppm	.01	0.00830	83.0	63-125	WG362370
Benzo(b)fluoranthene	ppm	.01	0.00938	93.8	50-123	WG362370
Benzo(g,h,i)perylene	ppm	.01	0.00944	94.4	39-143	WG362370
Benzo(k)fluoranthene	ppm	.01	0.00699	69.9	45-126	WG362370
Benzyl alcohol	ppm	.01	0.00617	61.7	33-104	WG362370
Benzylbutyl phthalate	ppm	.01	0.00872	87.2	22-154	WG362370
Bis(2-chlorethoxy)methane	ppm	.01	0.00779	77.9	42-116	WG362370
Bis(2-chloroethyl)ether	ppm	.01	0.00723	72.3	26-115	WG362370
Bis(2-ethylhexyl)phthalate	ppm	.01	0.0101	101.	47-143	WG362370
Chrysene	ppm	.01	0.00864	86.4	58-113	WG362370
Di-n-butyl phthalate	ppm	.01	0.00878	87.8	51-131	WG362370
Di-n-octyl phthalate	ppm	.01	0.00936	93.6	51-138	WG362370
Dibenz(a,h)anthracene	ppm	.01	0.00935	93.5	39-144	WG362370
Dibenzofuran	ppm	.01	0.00766	76.6	50-121	WG362370
Diethyl phthalate	ppm	.01	0.00799	79.9	36-128	WG362370

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Level II

L346603

June 06, 2008

Dimethyl phthalate	ppm	.01	0.00601	60.1	10-135	WG362370

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Fluoranthene	ppm	.01	0.00841	84.1	53-119	WG362370
Fluorene	ppm	.01	0.00718	71.8	49-116	WG362370
Hexachloro-1,3-butadiene	ppm	.01	0.00698	69.8	21-116	WG362370
Hexachlorobenzene	ppm	.01	0.00816	81.6	51-121	WG362370
Hexachlorocyclopentadiene	ppm	.01	0.00713	71.3	4-126	WG362370
Hexachloroethane	ppm	.01	0.00654	65.4	15-109	WG362370
Indeno(1,2,3-cd)pyrene	ppm	.01	0.00929	92.9	40-143	WG362370
Isophorone	ppm	.01	0.00843	84.3	48-126	WG362370
3&4-methyl phenol	ppm	.01	0.00607	60.7	36-102	WG362370
n-Nitrosodi-n-propylamine	ppm	.01	0.00867	86.7	47-122	WG362370
n-Nitrosodimethylamine	ppm	.01	0.00418	41.8	11-69	WG362370
n-Nitrosodiphenylamine	ppm	.01	0.00900	90.0	59-143	WG362370
Naphthalene	ppm	.01	0.00642	64.2	29-103	WG362370
Nitrobenzene	ppm	.01	0.00714	71.4	31-105	WG362370
Pentachlorophenol	ppm	.01	0.00777	77.7	20-122	WG362370
Phenanthrene	ppm	.01	0.00777	77.7	54-112	WG362370
Phenol	ppm	.01	0.00313	31.3	17-52	WG362370
Pyrene	ppm	.01	0.00867	86.7	46-130	WG362370
Barium	mg/l	1.13	1.12	99.1	85-115	WG362463
Chromium	mg/l	1.13	1.11	98.2	85-115	WG362463
Cobalt	mg/l	1.13	1.14	101.	85-115	WG362463
Lead	mg/l	1.13	1.12	99.1	85-115	WG362463
Nickel	mg/l	1.13	1.14	101.	85-115	WG362463
Silver	mg/l	1.13	1.10	97.3	85-115	WG362463
Tin	mg/l	1.13	1.15	102.	85-115	WG362463
Vanadium	mg/l	1.13	1.11	98.2	85-115	WG362463
1,2,4,5-Tetrachlorobenzene	ppm	.01	0.00852	85.2	39-116	WG362507
1,2,4-Trichlorobenzene	ppm	.01	0.00739	73.9	26-103	WG362507
2,4,5-Trichlorophenol	ppm	.01	0.00830	83.0	48-120	WG362507
2,4,6-Trichlorophenol	ppm	.01	0.00798	79.8	49-118	WG362507
2,4-Dichlorophenol	ppm	.01	0.00745	74.5	46-115	WG362507
2,4-Dimethylphenol	ppm	.01	0.00863	86.3	40-124	WG362507
2,4-Dinitrophenol	ppm	.01	0.00681	68.1	10-125	WG362507
2,4-Dinitrotoluene	ppm	.01	0.00836	83.6	56-128	WG362507
2,6-Dinitrotoluene	ppm	.01	0.00816	81.6	56-121	WG362507
2-Chloronaphthalene	ppm	.01	0.00796	79.6	44-110	WG362507
2-Chlorophenol	ppm	.01	0.00695	69.5	38-114	WG362507
2-Methylnaphthalene	ppm	.01	0.00800	80.0	28-122	WG362507
2-Methylphenol	ppm	.01	0.00641	64.1	42-99	WG362507
2-Nitroaniline	ppm	.01	0.00788	78.8	55-124	WG362507
2-Nitrophenol	ppm	.01	0.00668	66.8	35-118	WG362507
3,3-Dichlorobenzidine	ppm	.01	0.00952	95.2	46-145	WG362507
3-Nitroaniline	ppm	.01	0.00880	88.0	39-141	WG362507
4,6-Dinitro-2-methylphenol	ppm	.01	0.00816	81.6	24-119	WG362507
4-Bromophenyl-phenylether	ppm	.01	0.00782	78.2	45-105	WG362507
4-Chloro-3-methylphenol	ppm	.01	0.00736	73.6	47-116	WG362507
4-Chloroaniline	ppm	.01	0.00905	90.5	21-151	WG362507
4-Chlorophenyl-phenylether	ppm	.01	0.00851	85.1	49-116	WG362507
4-Nitroaniline	ppm	.01	0.00892	89.2	43-144	WG362507
4-Nitrophenol	ppm	.01	0.00218	21.8	10-66	WG362507
Acenaphthene	ppm	.01	0.00804	80.4	48-110	WG362507
Acenaphthylene	ppm	.01	0.00799	79.9	48-113	WG362507
Acetophenone	ppm	.01	0.00714	71.4	35-98	WG362507
Anthracene	ppm	.01	0.00907	90.7	55-127	WG362507
Benzo(a)anthracene	ppm	.01	0.00829	82.9	57-115	WG362507
Benzo(a)pyrene	ppm	.01	0.00849	84.9	63-125	WG362507
Benzo(b)fluoranthene	ppm	.01	0.00839	83.9	50-123	WG362507

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June 06, 2008

L346603

Benzo(g,h,i)perylene	ppm	.01	0.00871	87.1	39-143	WG362507

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Benzo(k)fluoranthene	ppm	.01	0.00873	87.3	45-126	WG362507
Benzyl alcohol	ppm	.01	0.00697	69.7	33-104	WG362507
Benzylbutyl phthalate	ppm	.01	0.00317	31.7	22-154	WG362507
Bis(2-chlorethoxy)methane	ppm	.01	0.00840	84.0	42-116	WG362507
Bis(2-chloroethyl)ether	ppm	.01	0.0100	100.	26-115	WG362507
Bis(2-ethylhexyl)phthalate	ppm	.01	0.00832	83.2	47-143	WG362507
Chrysene	ppm	.01	0.00866	86.6	58-113	WG362507
Di-n-butyl phthalate	ppm	.01	0.00634	63.4	51-131	WG362507
Di-n-octyl phthalate	ppm	.01	0.00797	79.7	51-138	WG362507
Dibenz(a,h)anthracene	ppm	.01	0.00884	88.4	39-144	WG362507
Dibenzofuran	ppm	.01	0.00829	82.9	50-121	WG362507
Diethyl phthalate	ppm	.01	0.00449	44.9	36-128	WG362507
Dimethyl phthalate	ppm	.01	0.00237	23.7	10-135	WG362507
Fluoranthene	ppm	.01	0.00879	87.9	53-119	WG362507
Fluorene	ppm	.01	0.00821	82.1	49-116	WG362507
Hexachloro-1,3-butadiene	ppm	.01	0.00813	81.3	21-116	WG362507
Hexachlorobenzene	ppm	.01	0.00924	92.4	51-121	WG362507
Hexachlorocyclopentadiene	ppm	.01	0.00759	75.9	4-126	WG362507
Hexachloroethane	ppm	.01	0.00700	70.0	15-109	WG362507
Indeno(1,2,3-cd)pyrene	ppm	.01	0.00836	83.6	40-143	WG362507
Isophorone	ppm	.01	0.00866	86.6	48-126	WG362507
3&4-methyl phenol	ppm	.01	0.00614	61.4	36-102	WG362507
n-Nitrosodi-n-propylamine	ppm	.01	0.00850	85.0	47-122	WG362507
n-Nitrosodimethylamine	ppm	.01	0.00289	28.9	11-69	WG362507
n-Nitrosodiphenylamine	ppm	.01	0.00962	96.2	59-143	WG362507
Naphthalene	ppm	.01	0.00742	74.2	29-103	WG362507
Nitrobenzene	ppm	.01	0.00667	66.7	31-105	WG362507
Pentachlorophenol	ppm	.01	0.00722	72.2	20-122	WG362507
Phenanthrene	ppm	.01	0.00873	87.3	54-112	WG362507
Phenol	ppm	.01	0.00262	26.2	17-52	WG362507
Pyrene	ppm	.01	0.00811	81.1	46-130	WG362507
2,4,5-T	mg/l	.005	0.00617	123.	30-136	WG362521
2,4,5-TP (Silvex)	mg/l	.005	0.00641	128.	33-134	WG362521
2,4-D	mg/l	.005	0.00577	115.	24-127	WG362521
Dinoseb	mg/l	.005	0.00520	104.	28-183	WG362521
Barium	mg/l	1.13	1.03	91.2	85-115	WG362532
Chromium	mg/l	1.13	1.02	90.3	85-115	WG362532
Cobalt	mg/l	1.13	1.05	92.9	85-115	WG362532
Lead	mg/l	1.13	1.04	92.0	85-115	WG362532
Nickel	mg/l	1.13	1.06	93.8	85-115	WG362532
Silver	mg/l	1.13	1.02	90.3	85-115	WG362532
Tin	mg/l	1.13	1.04	92.0	85-115	WG362532
Vanadium	mg/l	1.13	1.02	90.3	85-115	WG362532
1,2-Dibromo-3-Chloropropane	mg/l	.00025	0.000247	98.6	70-130	WG362533
Ethylene Dibromide	mg/l	.00025	0.000245	98.1	70-130	WG362533
1,2-Dibromo-3-Chloropropane	mg/l	.00025	0.000230	91.9	70-130	WG362534
Ethylene Dibromide	mg/l	.00025	0.000239	95.7	70-130	WG362534
Antimony	mg/l	.0567	0.0561	98.9	85-115	WG362561
Arsenic	mg/l	.0567	0.0582	103.	85-115	WG362561
Beryllium	mg/l	.0567	0.0548	96.6	85-115	WG362561
Cadmium	mg/l	.0567	0.0566	99.8	85-115	WG362561
Copper	mg/l	.0567	0.0582	103.	85-115	WG362561
Selenium	mg/l	.0567	0.0569	100.	85-115	WG362561
Thallium	mg/l	.0567	0.0568	100.	85-115	WG362561

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Quality Assurance Report
Level II

L346603

June 06, 2008

Zinc	mg/l	.0567	0.0580	102.	85-115	WG362561

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Mercury	mg/l	.003	0.00285	95.0	85-115	WG362574
Fluoride	mg/l	8	8.08	101.	90-110	WG362585
Mercury	mg/l	.003	0.00284	94.7	85-115	WG362800
Sulfide	mg/l	.5	0.485	97.0	90-110	WG362813
1,2,4,5-Tetrachlorobenzene	ppm	.01	0.00802	80.2	39-116	WG362957
1,2,4-Trichlorobenzene	ppm	.01	0.00628	62.8	26-103	WG362957
2,4,5-Trichlorophenol	ppm	.01	0.00785	78.5	48-120	WG362957
2,4,6-Trichlorophenol	ppm	.01	0.00840	84.0	49-118	WG362957
2,4-Dichlorophenol	ppm	.01	0.00708	70.8	46-115	WG362957
2,4-Dimethylphenol	ppm	.01	0.00604	60.4	40-124	WG362957
2,4-Dinitrophenol	ppm	.01	0.00596	59.6	10-125	WG362957
2,4-Dinitrotoluene	ppm	.01	0.00805	80.5	56-128	WG362957
2,6-Dinitrotoluene	ppm	.01	0.00932	93.2	56-121	WG362957
2-Chloronaphthalene	ppm	.01	0.00789	78.9	44-110	WG362957
2-Chlorophenol	ppm	.01	0.00754	75.4	38-114	WG362957
2-Methylnaphthalene	ppm	.01	0.00754	75.4	28-122	WG362957
2-Methylphenol	ppm	.01	0.00627	62.7	42-99	WG362957
2-Nitroaniline	ppm	.01	0.00826	82.6	55-124	WG362957
2-Nitrophenol	ppm	.01	0.00797	79.7	35-118	WG362957
3,3-Dichlorobenzidine	ppm	.01	0.00841	84.1	46-145	WG362957
3-Nitroaniline	ppm	.01	0.00830	83.0	39-141	WG362957
4,6-Dinitro-2-methylphenol	ppm	.01	0.00802	80.2	24-119	WG362957
4-Bromophenyl-phenylether	ppm	.01	0.00800	80.0	45-105	WG362957
4-Chloro-3-methylphenol	ppm	.01	0.00715	71.5	47-116	WG362957
4-Chloroaniline	ppm	.01	0.00781	78.1	21-151	WG362957
4-Chlorophenyl-phenylether	ppm	.01	0.00895	89.5	49-116	WG362957
4-Nitroaniline	ppm	.01	0.00800	80.0	43-144	WG362957
4-Nitrophenol	ppm	.01	0.00295	29.5	10-66	WG362957
Acenaphthene	ppm	.01	0.00785	78.5	48-110	WG362957
Acenaphthylene	ppm	.01	0.00770	77.0	48-113	WG362957
Acetophenone	ppm	.01	0.00691	69.1	35-98	WG362957
Anthracene	ppm	.01	0.00895	89.5	55-127	WG362957
Benzo(a)anthracene	ppm	.01	0.00792	79.2	57-115	WG362957
Benzo(a)pyrene	ppm	.01	0.00891	89.1	63-125	WG362957
Benzo(b)fluoranthene	ppm	.01	0.00881	88.1	50-123	WG362957
Benzo(g,h,i)perylene	ppm	.01	0.00893	89.3	39-143	WG362957
Benzo(k)fluoranthene	ppm	.01	0.00916	91.6	45-126	WG362957
Benzyl alcohol	ppm	.01	0.00649	64.9	33-104	WG362957
Benzylbutyl phthalate	ppm	.01	0.00780	78.0	22-154	WG362957
Bis(2-chlorethoxy)methane	ppm	.01	0.00794	79.4	42-116	WG362957
Bis(2-chloroethyl)ether	ppm	.01	0.00806	80.6	26-115	WG362957
Bis(2-ethylhexyl)phthalate	ppm	.01	0.00925	92.5	47-143	WG362957
Chrysene	ppm	.01	0.00837	83.7	58-113	WG362957
Di-n-butyl phthalate	ppm	.01	0.00929	92.9	51-131	WG362957
Di-n-octyl phthalate	ppm	.01	0.00876	87.6	51-138	WG362957
Dibenz(a,h)anthracene	ppm	.01	0.00836	83.6	39-144	WG362957
Dibenzofuran	ppm	.01	0.00831	83.1	50-121	WG362957
Diethyl phthalate	ppm	.01	0.00806	80.6	36-128	WG362957
Dimethyl phthalate	ppm	.01	0.00614	61.4	10-135	WG362957
Fluoranthene	ppm	.01	0.00918	91.8	53-119	WG362957
Fluorene	ppm	.01	0.00814	81.4	49-116	WG362957
Hexachloro-1,3-butadiene	ppm	.01	0.00682	68.2	21-116	WG362957
Hexachlorobenzene	ppm	.01	0.00866	86.6	51-121	WG362957
Hexachlorocyclopentadiene	ppm	.01	0.00654	65.4	4-126	WG362957
Hexachloroethane	ppm	.01	0.00679	67.9	15-109	WG362957

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Indeno(1,2,3-cd)pyrene	ppm	.01	0.00852	85.2	40-143	WG362957

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Isophorone	ppm	.01	0.00871	87.1	48-126	WG362957
3&4-methyl phenol	ppm	.01	0.00563	56.3	36-102	WG362957
n-Nitrosodi-n-propylamine	ppm	.01	0.00937	93.7	47-122	WG362957
n-Nitrosodimethylamine	ppm	.01	0.00400	40.0	11-69	WG362957
n-Nitrosodiphenylamine	ppm	.01	0.00953	95.3	59-143	WG362957
Naphthalene	ppm	.01	0.00637	63.7	29-103	WG362957
Nitrobenzene	ppm	.01	0.00675	67.5	31-105	WG362957
Pentachlorophenol	ppm	.01	0.00816	81.6	20-122	WG362957
Phenanthrene	ppm	.01	0.00846	84.6	54-112	WG362957
Phenol	ppm	.01	0.00370	37.0	17-52	WG362957
Pyrene	ppm	.01	0.00824	82.4	46-130	WG362957
Cyanide	mg/l	.1	0.0997	99.7	90-110	WG363113
1,1,1,2-Tetrachloroethane	mg/l	.05	0.0503	101.	75-134	WG363147
1,1,1-Trichloroethane	mg/l	.05	0.0485	97.1	67-137	WG363147
1,1,2,2-Tetrachloroethane	mg/l	.05	0.0475	94.9	72-128	WG363147
1,1,2-Trichloroethane	mg/l	.05	0.0487	97.4	79-123	WG363147
1,1-Dichloroethane	mg/l	.05	0.0475	95.0	67-133	WG363147
1,1-Dichloroethene	mg/l	.05	0.0439	87.9	60-130	WG363147
1,2,3-Trichloropropane	mg/l	.05	0.0439	87.7	68-130	WG363147
1,2-Dichlorobenzene	mg/l	.05	0.0516	103.	75-122	WG363147
1,2-Dichloroethane	mg/l	.05	0.0478	95.7	63-137	WG363147
1,2-Dichloropropane	mg/l	.05	0.0475	94.9	74-122	WG363147
1,4-Dichlorobenzene	mg/l	.05	0.0461	92.2	70-121	WG363147
2-Butanone (MEK)	mg/l	.25	0.228	91.2	53-132	WG363147
2-Hexanone	mg/l	.25	0.229	91.5	56-147	WG363147
4-Methyl-2-pentanone (MIBK)	mg/l	.25	0.215	86.1	60-142	WG363147
Acetone	mg/l	.25	0.204	81.7	48-134	WG363147
Acrylonitrile	mg/l	.25	0.217	86.7	60-140	WG363147
Benzene	mg/l	.05	0.0479	95.8	67-126	WG363147
Bromochloromethane	mg/l	.05	0.0490	98.0	75-128	WG363147
Bromodichloromethane	mg/l	.05	0.0471	94.2	68-133	WG363147
Bromoform	mg/l	.05	0.0476	95.1	60-139	WG363147
Bromomethane	mg/l	.05	0.0550	110.	45-175	WG363147
Carbon disulfide	mg/l	.05	0.0552	110.	41-148	WG363147
Carbon tetrachloride	mg/l	.05	0.0438	87.6	64-141	WG363147
Chlorobenzene	mg/l	.05	0.0493	98.5	77-125	WG363147
Chlorodibromomethane	mg/l	.05	0.0492	98.4	73-138	WG363147
Chloroethane	mg/l	.05	0.0518	104.	49-155	WG363147
Chloroform	mg/l	.05	0.0463	92.6	66-126	WG363147
Chloromethane	mg/l	.05	0.0539	108.	45-152	WG363147
cis-1,2-Dichloroethene	mg/l	.05	0.0495	98.9	72-128	WG363147
cis-1,3-Dichloropropene	mg/l	.05	0.0497	99.4	73-131	WG363147
Dibromomethane	mg/l	.05	0.0475	95.0	73-125	WG363147
Ethylbenzene	mg/l	.05	0.0489	97.8	76-129	WG363147
Iodomethane	mg/l	.25	0.212	84.8	61-148	WG363147
Methylene Chloride	mg/l	.05	0.0448	89.6	64-125	WG363147
Styrene	mg/l	.05	0.0484	96.8	78-130	WG363147
Tetrachloroethene	mg/l	.05	0.0474	94.8	67-135	WG363147
Toluene	mg/l	.05	0.0462	92.5	72-122	WG363147
trans-1,2-Dichloroethene	mg/l	.05	0.0451	90.3	67-129	WG363147
trans-1,3-Dichloropropene	mg/l	.05	0.0471	94.2	66-137	WG363147
trans-1,4-Dichloro-2-butene	mg/l	.05	0.0384	76.8	48-139	WG363147
Trichloroethene	mg/l	.05	0.0477	95.4	74-126	WG363147
Trichlorofluoromethane	mg/l	.05	0.0532	106.	54-156	WG363147
Vinyl acetate	mg/l	.25	0.199	79.7	34-178	WG363147
Vinyl chloride	mg/l	.05	0.0611	122.	55-153	WG363147
Xylenes, Total	mg/l	.15	0.143	95.5	75-128	WG363147

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L346603

June 06, 2008

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	.05	0.0605	121.	75-134	WG363160
1,1,1-Trichloroethane	mg/l	.05	0.0564	113.	67-137	WG363160
1,1,2,2-Tetrachloroethane	mg/l	.05	0.0537	107.	72-128	WG363160
1,1,2-Trichloroethane	mg/l	.05	0.0560	112.	79-123	WG363160
1,1-Dichloroethane	mg/l	.05	0.0557	111.	67-133	WG363160
1,1-Dichloroethene	mg/l	.05	0.0591	118.	60-130	WG363160
1,1-Dichloropropene	mg/l	.05	0.0570	114.	68-132	WG363160
1,2,3-Trichloropropane	mg/l	.05	0.0537	107.	68-130	WG363160
1,2,4-Trichlorobenzene	mg/l	.05	0.0550	110.	65-137	WG363160
1,2-Dibromo-3-Chloropropane	mg/l	.05	0.0466	93.1	55-134	WG363160
1,2-Dibromoethane	mg/l	.05	0.0546	109.	75-126	WG363160
1,2-Dichlorobenzene	mg/l	.05	0.0550	110.	75-122	WG363160
1,2-Dichloroethane	mg/l	.05	0.0538	108.	63-137	WG363160
1,2-Dichloropropane	mg/l	.05	0.0560	112.	74-122	WG363160
1,3-Dichlorobenzene	mg/l	.05	0.0569	114.	73-131	WG363160
1,3-Dichloropropane	mg/l	.05	0.0518	104.	77-119	WG363160
1,4-Dichlorobenzene	mg/l	.05	0.0546	109.	70-121	WG363160
2,2-Dichloropropane	mg/l	.05	0.0547	109.	46-151	WG363160
2-Butanone (MEK)	mg/l	.25	0.253	101.	53-132	WG363160
2-Hexanone	mg/l	.25	0.238	95.4	56-147	WG363160
4-Methyl-2-pentanone (MIBK)	mg/l	.25	0.242	96.9	60-142	WG363160
Acetone	mg/l	.25	0.231	92.5	48-134	WG363160
Acrolein	mg/l	.25	0.271	108.	6-182	WG363160
Acrylonitrile	mg/l	.25	0.258	103.	60-140	WG363160
Allyl chloride	mg/l	.25	0.00	0.00	0-0	WG363160
Benzene	mg/l	.05	0.0559	112.	67-126	WG363160
Bromochloromethane	mg/l	.05	0.0578	116.	75-128	WG363160
Bromodichloromethane	mg/l	.05	0.0584	117.	68-133	WG363160
Bromoform	mg/l	.05	0.0488	97.7	60-139	WG363160
Bromomethane	mg/l	.05	0.0647	129.	45-175	WG363160
Carbon disulfide	mg/l	.05	0.0643	129.	41-148	WG363160
Carbon tetrachloride	mg/l	.05	0.0605	121.	64-141	WG363160
Chlorobenzene	mg/l	.05	0.0555	111.	77-125	WG363160
Chlorodibromomethane	mg/l	.05	0.0582	116.	73-138	WG363160
Chloroethane	mg/l	.05	0.0625	125.	49-155	WG363160
Chloroform	mg/l	.05	0.0547	109.	66-126	WG363160
Chloromethane	mg/l	.05	0.0602	120.	45-152	WG363160
cis-1,2-Dichloroethene	mg/l	.05	0.0578	116.	72-128	WG363160
cis-1,3-Dichloropropene	mg/l	.05	0.0568	114.	73-131	WG363160
Dibromomethane	mg/l	.05	0.0558	112.	73-125	WG363160
Dichlorodifluoromethane	mg/l	.05	0.0685	137.	39-189	WG363160
Ethylbenzene	mg/l	.05	0.0570	114.	76-129	WG363160
Iodomethane	mg/l	.25	0.299	120.	61-148	WG363160
Methylene Chloride	mg/l	.05	0.0537	107.	64-125	WG363160
Styrene	mg/l	.05	0.0628	126.	78-130	WG363160
Tetrachloroethene	mg/l	.05	0.0567	113.	67-135	WG363160
Toluene	mg/l	.05	0.0534	107.	72-122	WG363160
trans-1,2-Dichloroethene	mg/l	.05	0.0574	115.	67-129	WG363160
trans-1,3-Dichloropropene	mg/l	.05	0.0528	106.	66-137	WG363160
trans-1,4-Dichloro-2-butene	mg/l	.05	0.0524	105.	48-139	WG363160
Trichloroethene	mg/l	.05	0.0566	113.	74-126	WG363160
Trichlorofluoromethane	mg/l	.05	0.0675	135.	54-156	WG363160
Vinyl acetate	mg/l	.25	0.271	108.	34-178	WG363160
Vinyl chloride	mg/l	.05	0.0591	118.	55-153	WG363160
Xylenes, Total	mg/l	.15	0.172	114.	75-128	WG363160
1,1,1,2-Tetrachloroethane	mg/l	.05	0.0552	110.	75-134	WG363162
1,1,1-Trichloroethane	mg/l	.05	0.0510	102.	67-137	WG363162
1,1,2,2-Tetrachloroethane	mg/l	.05	0.0568	114.	72-128	WG363162

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1,1,2-Trichloroethane	mg/l	.05	0.0528	106.	79-123	WG363162

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1-Dichloroethane	mg/l	.05	0.0511	102.	67-133	WG363162
1,1-Dichloroethene	mg/l	.05	0.0458	91.6	60-130	WG363162
1,1-Dichloropropene	mg/l	.05	0.0491	98.3	68-132	WG363162
1,2,3-Trichloropropane	mg/l	.05	0.0554	111.	68-130	WG363162
1,2,4-Trichlorobenzene	mg/l	.05	0.0546	109.	65-137	WG363162
1,2-Dibromo-3-Chloropropane	mg/l	.05	0.0518	104.	55-134	WG363162
1,2-Dibromoethane	mg/l	.05	0.0535	107.	75-126	WG363162
1,2-Dichlorobenzene	mg/l	.05	0.0523	105.	75-122	WG363162
1,2-Dichloroethane	mg/l	.05	0.0531	106.	63-137	WG363162
1,2-Dichloropropane	mg/l	.05	0.0564	113.	74-122	WG363162
1,3-Dichlorobenzene	mg/l	.05	0.0514	103.	73-131	WG363162
1,3-Dichloropropane	mg/l	.05	0.0530	106.	77-119	WG363162
1,4-Dichlorobenzene	mg/l	.05	0.0496	99.2	70-121	WG363162
2,2-Dichloropropane	mg/l	.05	0.0655	131.	46-151	WG363162
2-Butanone (MEK)	mg/l	.25	0.258	103.	53-132	WG363162
2-Hexanone	mg/l	.25	0.277	111.	56-147	WG363162
4-Methyl-2-pentanone (MIBK)	mg/l	.25	0.284	114.	60-142	WG363162
Acetone	mg/l	.25	0.272	109.	48-134	WG363162
Acrolein	mg/l	.25	0.308	123.	6-182	WG363162
Acrylonitrile	mg/l	.25	0.275	110.	60-140	WG363162
Allyl chloride	mg/l	.25	0.212	84.8	0-0	WG363162
Benzene	mg/l	.05	0.0475	94.9	67-126	WG363162
Bromochloromethane	mg/l	.05	0.0488	97.7	75-128	WG363162
Bromodichloromethane	mg/l	.05	0.0554	111.	68-133	WG363162
Bromoform	mg/l	.05	0.0598	120.	60-139	WG363162
Bromomethane	mg/l	.05	0.0539	108.	45-175	WG363162
Carbon disulfide	mg/l	.05	0.0589	118.	41-148	WG363162
Carbon tetrachloride	mg/l	.05	0.0520	104.	64-141	WG363162
Chlorobenzene	mg/l	.05	0.0503	101.	77-125	WG363162
Chlorodibromomethane	mg/l	.05	0.0561	112.	73-138	WG363162
Chloroethane	mg/l	.05	0.0560	112.	49-155	WG363162
Chloroform	mg/l	.05	0.0486	97.1	66-126	WG363162
Chloromethane	mg/l	.05	0.0582	116.	45-152	WG363162
cis-1,2-Dichloroethene	mg/l	.05	0.0480	96.0	72-128	WG363162
cis-1,3-Dichloropropene	mg/l	.05	0.0556	111.	73-131	WG363162
Dibromomethane	mg/l	.05	0.0561	112.	73-125	WG363162
Dichlorodifluoromethane	mg/l	.05	0.0626	125.	39-189	WG363162
Ethylbenzene	mg/l	.05	0.0506	101.	76-129	WG363162
Iodomethane	mg/l	.25	0.230	92.2	61-148	WG363162
Methylene Chloride	mg/l	.05	0.0444	88.9	64-125	WG363162
Styrene	mg/l	.05	0.0516	103.	78-130	WG363162
Tetrachloroethene	mg/l	.05	0.0490	98.1	67-135	WG363162
Toluene	mg/l	.05	0.0469	93.7	72-122	WG363162
trans-1,2-Dichloroethene	mg/l	.05	0.0481	96.3	67-129	WG363162
trans-1,3-Dichloropropene	mg/l	.05	0.0555	111.	66-137	WG363162
trans-1,4-Dichloro-2-butene	mg/l	.05	0.0564	113.	48-139	WG363162
Trichloroethene	mg/l	.05	0.0467	93.5	74-126	WG363162
Trichlorofluoromethane	mg/l	.05	0.0543	109.	54-156	WG363162
Vinyl acetate	mg/l	.25	0.267	107.	34-178	WG363162
Vinyl chloride	mg/l	.05	0.0569	114.	55-153	WG363162
Xylenes, Total	mg/l	.15	0.150	100.	75-128	WG363162
1,2-Dibromo-3-Chloropropane	mg/l	.00025	0.000260	104.	70-130	WG363394
Ethylene Dibromide	mg/l	.00025	0.000264	106.	70-130	WG363394
Cyanide	mg/l	.1	0.103	103.	90-110	WG364599

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch

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4,4-DDD	mg/l	0.0001	0.0001	8.86	39	80	WG362348
4,4-DDE	mg/l	0.0001	0.0001	11.6	37	76	WG362348
4,4-DDT	mg/l	0.0001	0.0001	11.6	42	72	WG362348
Aldrin	mg/l	0.0001	0.0001	7.28	45	58	WG362348
Alpha BHC	mg/l	0.0001	0.0001	1.33	30	53	WG362348
Beta BHC	mg/l	0.0001	0.0001	7.60	31	69	WG362348
Delta BHC	mg/l	0.0001	0.0001	13.6	41	60	WG362348
Dieldrin	mg/l	0.0001	0.0001	9.02	36	76	WG362348
Endosulfan I	mg/l	0.0001	0.0001	8.41	35	95	WG362348
Endosulfan II	mg/l	0.0001	0.0001	9.83	36	75	WG362348
Endosulfan sulfate	mg/l	0.0001	0.0001	7.94	37	81	WG362348
Endrin	mg/l	0.0001	0.0001	9.45	37	71	WG362348
Endrin aldehyde	mg/l	0.0001	0.0001	5.52	36	73	WG362348
Gamma BHC	mg/l	0.0001	0.0001	3.59	30	57	WG362348
Heptachlor	mg/l	0.0001	0.0001	6.44	38	63	WG362348
Heptachlor epoxide	mg/l	0.0001	0.0001	7.98	33	69	WG362348
Hexachlorobenzene	mg/l	0.0001	0.0001	2.93	29	73	WG362348
Methoxychlor	mg/l	0.0001	0.0001	9.04	40	74	WG362348
PCB 1260	mg/l	0.0004	0.0003	29.0	34	87	WG362348
1,2,4,5-Tetrachlorobenzene	ppm	0.0077	0.0076	1.17	33	77	WG362370
1,2,4-Trichlorobenzene	ppm	0.0062	0.0063	1.42	38	63	WG362370
2,4,5-Trichlorophenol	ppm	0.0069	0.0073	5.75	29	69	WG362370
2,4,6-Trichlorophenol	ppm	0.0066	0.0074	10.2	28	67	WG362370
2,4-Dichlorophenol	ppm	0.0071	0.0069	3.55	28	72	WG362370
2,4-Dimethylphenol	ppm	0.0083	0.0081	2.19	36	83	WG362370
2,4-Dinitrophenol	ppm	0.0052	0.0063	19.9	50	52	WG362370
2,4-Dinitrotoluene	ppm	0.0083	0.0087	4.22	24	84	WG362370
2,6-Dinitrotoluene	ppm	0.0083	0.0082	1.80	23	84	WG362370
2-Chloronaphthalene	ppm	0.0070	0.0068	2.30	30	70	WG362370
2-Chlorophenol	ppm	0.0070	0.0066	4.53	36	70	WG362370
2-Methylnaphthalene	ppm	0.0069	0.0068	2.61	36	70	WG362370
2-Methylphenol	ppm	0.0064	0.0058	9.71	26	65	WG362370
2-Nitroaniline	ppm	0.0083	0.0082	0.602	22	83	WG362370
2-Nitrophenol	ppm	0.0068	0.0066	4.01	35	69	WG362370
3,3-Dichlorobenzidine	ppm	0.0083	0.0083	0.120	31	84	WG362370
3-Nitroaniline	ppm	0.0079	0.0078	0.890	32	79	WG362370
4,6-Dinitro-2-methylphenol	ppm	0.0060	0.0070	16.1	50	60	WG362370
4-Bromophenyl-phenylether	ppm	0.0073	0.0072	0.958	26	73	WG362370
4-Chloro-3-methylphenol	ppm	0.0074	0.0073	0.813	22	74	WG362370
4-Chloroaniline	ppm	0.0085	0.0084	0.589	36	85	WG362370
4-Chlorophenyl-phenylether	ppm	0.0076	0.0077	1.17	26	76	WG362370
4-Nitroaniline	ppm	0.0082	0.0081	1.35	34	82	WG362370
4-Nitrophenol	ppm	0.0020	0.0023	11.0	37	21	WG362370
Acenaphthene	ppm	0.0071	0.0070	1.27	26	71	WG362370
Acenaphthylene	ppm	0.0072	0.0073	1.52	28	72	WG362370
Acetophenone	ppm	0.0070	0.0066	6.45	38	70	WG362370
Anthracene	ppm	0.0085	0.0082	2.50	24	85	WG362370
Benzo(a)anthracene	ppm	0.0084	0.0083	1.19	20	85	WG362370
Benzo(a)pyrene	ppm	0.0084	0.0083	2.26	22	85	WG362370
Benzo(b)fluoranthene	ppm	0.0081	0.0093	14.5	32	81	WG362370
Benzo(g,h,i)perylene	ppm	0.0090	0.0094	4.00	31	91	WG362370
Benzo(k)fluoranthene	ppm	0.0086	0.0069	21.6	37	87	WG362370
Benzyl alcohol	ppm	0.0063	0.0061	2.88	32	64	WG362370
Benzylbutyl phthalate	ppm	0.0084	0.0087	2.91	29	85	WG362370
Bis(2-chlorethoxy)methane	ppm	0.0079	0.0077	2.53	38	80	WG362370
Bis(2-chloroethyl)ether	ppm	0.0073	0.0072	1.65	50	74	WG362370
Bis(2-ethylhexyl)phthalate	ppm	0.0101	0.0101	0.198	24	101	WG362370
Chrysene	ppm	0.0084	0.0086	2.70	21	84	WG362370
Di-n-butyl phthalate	ppm	0.0088	0.0087	0.794	22	89	WG362370
Di-n-octyl phthalate	ppm	0.0091	0.0093	2.05	22	92	WG362370
Dibenz(a,h)anthracene	ppm	0.0088	0.0093	5.49	30	89	WG362370
Dibenzofuran	ppm	0.0076	0.0076	0.524	26	76	WG362370

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Diethyl phthalate	ppm	0.0074	0.0079	6.59	27	75	WG362370

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
Dimethyl phthalate	ppm	0.0058	0.0060	3.04	33	58	WG362370
Fluoranthene	ppm	0.0082	0.0084	1.92	28	83	WG362370
Fluorene	ppm	0.0072	0.0071	0.970	25	73	WG362370
Hexachloro-1,3-butadiene	ppm	0.0068	0.0069	1.44	50	69	WG362370
Hexachlorobenzene	ppm	0.0079	0.0081	2.48	23	80	WG362370
Hexachlorocyclopentadiene	ppm	0.0071	0.0071	0.838	50	72	WG362370
Hexachloroethane	ppm	0.0067	0.0065	3.01	50	67	WG362370
Indeno(1,2,3-cd)pyrene	ppm	0.0088	0.0092	4.63	30	89	WG362370
Isophorone	ppm	0.0083	0.0084	1.31	31	83	WG362370
3&4-methyl phenol	ppm	0.0063	0.0060	4.98	31	64	WG362370
n-Nitrosodi-n-propylamine	ppm	0.0088	0.0086	1.94	33	88	WG362370
n-Nitrosodimethylamine	ppm	0.0041	0.0041	1.20	50	41	WG362370
n-Nitrosodiphenylamine	ppm	0.0089	0.0090	0.222	23	90	WG362370
Naphthalene	ppm	0.0065	0.0064	2.46	45	66	WG362370
Nitrobenzene	ppm	0.0070	0.0071	0.703	43	71	WG362370
Pentachlorophenol	ppm	0.0066	0.0077	16.1	50	66	WG362370
Phenanthrene	ppm	0.0081	0.0077	4.16	22	81	WG362370
Phenol	ppm	0.0031	0.0031	1.58	33	32	WG362370
Pyrene	ppm	0.0090	0.0086	4.51	28	91	WG362370
1,2,4,5-Tetrachlorobenzene	ppm	0.0084	0.0085	1.42	33	84	WG362507
1,2,4-Trichlorobenzene	ppm	0.0071	0.0073	3.86	38	71	WG362507
2,4,5-Trichlorophenol	ppm	0.0082	0.0083	0.362	29	83	WG362507
2,4,6-Trichlorophenol	ppm	0.0079	0.0079	0.881	28	79	WG362507
2,4-Dichlorophenol	ppm	0.0071	0.0074	4.25	28	71	WG362507
2,4-Dimethylphenol	ppm	0.0083	0.0086	3.18	36	84	WG362507
2,4-Dinitrophenol	ppm	0.0072	0.0068	5.57	50	72	WG362507
2,4-Dinitrotoluene	ppm	0.0085	0.0083	2.13	24	85	WG362507
2,6-Dinitrotoluene	ppm	0.0083	0.0081	1.94	23	83	WG362507
2-Chloronaphthalene	ppm	0.0080	0.0079	0.876	30	80	WG362507
2-Chlorophenol	ppm	0.0067	0.0069	3.51	36	67	WG362507
2-Methylnaphthalene	ppm	0.0078	0.0080	1.89	36	79	WG362507
2-Methylphenol	ppm	0.0061	0.0064	4.79	26	61	WG362507
2-Nitroaniline	ppm	0.0080	0.0078	1.89	22	80	WG362507
2-Nitrophenol	ppm	0.0065	0.0066	2.73	35	65	WG362507
3,3-Dichlorobenzidine	ppm	0.0093	0.0095	1.59	31	94	WG362507
3-Nitroaniline	ppm	0.0091	0.0088	3.57	32	91	WG362507
4,6-Dinitro-2-methylphenol	ppm	0.0078	0.0081	3.62	50	79	WG362507
4-Bromophenyl-phenylether	ppm	0.0081	0.0078	3.76	26	81	WG362507
4-Chloro-3-methylphenol	ppm	0.0072	0.0073	2.20	22	72	WG362507
4-Chloroaniline	ppm	0.0085	0.0090	5.57	36	86	WG362507
4-Chlorophenyl-phenylether	ppm	0.0089	0.0085	5.04	26	90	WG362507
4-Nitroaniline	ppm	0.0096	0.0089	7.45	34	96	WG362507
4-Nitrophenol	ppm	0.0020	0.0021	4.69	37	21	WG362507
Acenaphthene	ppm	0.0081	0.0080	1.73	26	82	WG362507
Acenaphthylene	ppm	0.0081	0.0079	1.74	28	81	WG362507
Acetophenone	ppm	0.0068	0.0071	3.85	38	69	WG362507
Anthracene	ppm	0.0091	0.0090	1.10	24	92	WG362507
Benzo(a)anthracene	ppm	0.0089	0.0082	7.32	20	89	WG362507
Benzo(a)pyrene	ppm	0.0090	0.0084	5.83	22	90	WG362507
Benzo(b)fluoranthene	ppm	0.0087	0.0083	3.63	32	87	WG362507
Benzo(g,h,i)perylene	ppm	0.0089	0.0087	2.49	31	89	WG362507
Benzo(k)fluoranthene	ppm	0.0091	0.0087	4.70	37	92	WG362507
Benzyl alcohol	ppm	0.0059	0.0069	15.3	32	60	WG362507
Benzylbutyl phthalate	ppm	0.0073	0.0031	78.9	29	73	WG362507
Bis(2-chlorethoxy)methane	ppm	0.0081	0.0084	3.27	38	81	WG362507
Bis(2-chloroethyl)ether	ppm	0.0095	0.0100	5.43	50	95	WG362507
Bis(2-ethylhexyl)phthalate	ppm	0.0090	0.0083	8.85	24	91	WG362507
Chrysene	ppm	0.0093	0.0086	7.98	21	94	WG362507

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Di-n-butyl phthalate	ppm	0.0092	0.0063	36.8	22	92	WG362507

Analyte	Units	Laboratory Control Sample Duplicate LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
Di-n-octyl phthalate	ppm	0.0086	0.0079	7.72	22	86	WG362507
Dibenz(a,h)anthracene	ppm	0.0091	0.0088	3.01	30	91	WG362507
Dibenzofuran	ppm	0.0086	0.0082	3.79	26	86	WG362507
Diethyl phthalate	ppm	0.0081	0.0044	57.7	27	81	WG362507
Dimethyl phthalate	ppm	0.0064	0.0023	91.9	33	64	WG362507
Fluoranthene	ppm	0.0090	0.0087	2.80	28	90	WG362507
Fluorene	ppm	0.0084	0.0082	2.88	25	85	WG362507
Hexachloro-1,3-butadiene	ppm	0.0077	0.0081	5.43	50	77	WG362507
Hexachlorobenzene	ppm	0.0093	0.0092	0.969	23	93	WG362507
Hexachlorocyclopentadiene	ppm	0.0077	0.0075	2.09	50	78	WG362507
Hexachloroethane	ppm	0.0066	0.0070	4.98	50	67	WG362507
Indeno(1,2,3-cd)pyrene	ppm	0.0086	0.0083	3.41	30	87	WG362507
Isophorone	ppm	0.0084	0.0086	2.34	31	85	WG362507
3&4-methyl phenol	ppm	0.0059	0.0061	2.81	31	60	WG362507
n-Nitrosodi-n-propylamine	ppm	0.0082	0.0085	3.35	33	82	WG362507
n-Nitrosodimethylamine	ppm	0.0028	0.0028	0.347	50	29	WG362507
n-Nitrosodiphenylamine	ppm	0.0096	0.0096	0.00	23	96	WG362507
Naphthalene	ppm	0.0071	0.0074	4.13	45	71	WG362507
Nitrobenzene	ppm	0.0063	0.0066	4.44	43	64	WG362507
Pentachlorophenol	ppm	0.0069	0.0072	4.39	50	69	WG362507
Phenanthrene	ppm	0.0086	0.0087	0.921	22	87	WG362507
Phenol	ppm	0.0025	0.0026	2.32	33	26	WG362507
Pyrene	ppm	0.0085	0.0081	5.40	28	86	WG362507
2,4,5-T	mg/l	0.0054	0.0061	12.0	31	109	WG362521
2,4,5-TP (Silvex)	mg/l	0.0058	0.0064	8.79	30	117	WG362521
2,4-D	mg/l	0.0050	0.0057	13.1	27	101	WG362521
Dinoseb	mg/l	0.0044	0.0052	15.5	38	89	WG362521
1,2-Dibromo-3-Chloropropane	mg/l	0.0002	0.0002	0.284	40	99	WG362533
Ethylene Dibromide	mg/l	0.0002	0.0002	0.362	40	98	WG362533
1,2-Dibromo-3-Chloropropane	mg/l	0.0001	0.0002	25.2	40	71	WG362534
Ethylene Dibromide	mg/l	0.0001	0.0002	22.3	40	77	WG362534
Fluoride	mg/l	8.05	8.08	0.372	20	101	WG362585
Sulfide	mg/l	0.490	0.485	1.03	20	98	WG362813
1,2,4,5-Tetrachlorobenzene	ppm	0.0085	0.0080	6.63	33	86	WG362957
1,2,4-Trichlorobenzene	ppm	0.0073	0.0062	15.4	38	73	WG362957
2,4,5-Trichlorophenol	ppm	0.0080	0.0078	2.76	29	81	WG362957
2,4,6-Trichlorophenol	ppm	0.0079	0.0084	6.01	28	79	WG362957
2,4-Dichlorophenol	ppm	0.0077	0.0070	9.55	28	78	WG362957
2,4-Dimethylphenol	ppm	0.0022	0.0060	90.7	36	23	WG362957
2,4-Dinitrophenol	ppm	0.0065	0.0059	10.0	50	66	WG362957
2,4-Dinitrotoluene	ppm	0.0093	0.0080	14.4	24	93	WG362957
2,6-Dinitrotoluene	ppm	0.0089	0.0093	4.50	23	89	WG362957
2-Chloronaphthalene	ppm	0.0077	0.0078	1.53	30	78	WG362957
2-Chlorophenol	ppm	0.0069	0.0075	8.43	36	69	WG362957
2-Methylnaphthalene	ppm	0.0083	0.0075	10.3	36	84	WG362957
2-Methylphenol	ppm	0.0047	0.0062	28.4	26	47	WG362957
2-Nitroaniline	ppm	0.0091	0.0082	10.0	22	91	WG362957
2-Nitrophenol	ppm	0.0083	0.0079	4.06	35	83	WG362957
3,3-Dichlorobenzidine	ppm	0.0070	0.0084	17.6	31	71	WG362957
3-Nitroaniline	ppm	0.0079	0.0083	4.31	32	80	WG362957
4,6-Dinitro-2-methylphenol	ppm	0.0079	0.0080	1.00	50	79	WG362957
4-Bromophenyl-phenylether	ppm	0.0078	0.0080	2.28	26	78	WG362957
4-Chloro-3-methylphenol	ppm	0.0073	0.0071	3.17	22	74	WG362957

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Quality Assurance Report
Level II

L346603

June 06, 2008

4-Chloroaniline	ppm	0.0105	0.0078	28.9	36	105	WG362957

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
4-Chlorophenyl-phenylether	ppm	0.0093	0.0089	4.26	26	93	WG362957
4-Nitroaniline	ppm	0.0078	0.0080	2.40	34	78	WG362957
4-Nitrophenol	ppm	0.0022	0.0029	26.9	37	23	WG362957
Acenaphthene	ppm	0.0079	0.0078	1.14	26	79	WG362957
Acenaphthylene	ppm	0.0084	0.0077	9.41	28	85	WG362957
Acetophenone	ppm	0.0067	0.0069	2.64	38	67	WG362957
Anthracene	ppm	0.0095	0.0089	5.96	24	95	WG362957
Benzo(a)anthracene	ppm	0.0083	0.0079	4.81	20	83	WG362957
Benzo(a)pyrene	ppm	0.0095	0.0089	7.25	22	96	WG362957
Benzo(b)fluoranthene	ppm	0.0087	0.0088	0.455	32	88	WG362957
Benzo(g,h,i)perylene	ppm	0.0093	0.0089	4.06	31	93	WG362957
Benzo(k)fluoranthene	ppm	0.0095	0.0091	4.17	37	96	WG362957
Benzyl alcohol	ppm	0.0061	0.0064	4.89	32	62	WG362957
Benzylbutyl phthalate	ppm	0.0077	0.0078	1.29	29	77	WG362957
Bis(2-chlorethoxy)methane	ppm	0.0087	0.0079	9.25	38	87	WG362957
Bis(2-chloroethyl)ether	ppm	0.0078	0.0080	3.28	50	78	WG362957
Bis(2-ethylhexyl)phthalate	ppm	0.0092	0.0092	0.431	24	93	WG362957
Chrysene	ppm	0.0091	0.0083	9.34	21	92	WG362957
Di-n-butyl phthalate	ppm	0.0098	0.0092	5.75	22	98	WG362957
Di-n-octyl phthalate	ppm	0.0096	0.0087	9.88	22	97	WG362957
Dibenz(a,h)anthracene	ppm	0.0090	0.0083	8.15	30	91	WG362957
Dibenzofuran	ppm	0.0088	0.0083	6.63	26	89	WG362957
Diethyl phthalate	ppm	0.0083	0.0080	2.93	27	83	WG362957
Dimethyl phthalate	ppm	0.0059	0.0061	3.99	33	59	WG362957
Fluoranthene	ppm	0.0095	0.0091	4.26	28	96	WG362957
Fluorene	ppm	0.0084	0.0081	3.97	25	85	WG362957
Hexachloro-1,3-butadiene	ppm	0.0078	0.0068	13.8	50	78	WG362957
Hexachlorobenzene	ppm	0.0092	0.0086	6.37	23	92	WG362957
Hexachlorocyclopentadiene	ppm	0.0073	0.0065	12.2	50	74	WG362957
Hexachloroethane	ppm	0.0071	0.0067	4.60	50	71	WG362957
Indeno(1,2,3-cd)pyrene	ppm	0.0088	0.0085	4.25	30	89	WG362957
Isophorone	ppm	0.0098	0.0087	11.8	31	98	WG362957
3&4-methyl phenol	ppm	0.0038	0.0056	37.6	31	39	WG362957
n-Nitrosodi-n-propylamine	ppm	0.0087	0.0093	6.84	33	88	WG362957
n-Nitrosodimethylamine	ppm	0.0043	0.0040	7.69	50	43	WG362957
n-Nitrosodiphenylamine	ppm	0.0100	0.0095	4.91	23	100	WG362957
Naphthalene	ppm	0.0073	0.0063	13.6	45	73	WG362957
Nitrobenzene	ppm	0.0075	0.0067	11.1	43	75	WG362957
Pentachlorophenol	ppm	0.0085	0.0081	4.67	50	86	WG362957
Phenanthrene	ppm	0.0090	0.0084	6.52	22	90	WG362957
Phenol	ppm	0.0032	0.0037	12.0	33	33	WG362957
Pyrene	ppm	0.0086	0.0082	4.74	28	86	WG362957
Cyanide	mg/l	0.0985	0.0997	1.21	20	99	WG363113
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0503	0.629	20	100	WG363147
1,1,1-Trichloroethane	mg/l	0.0495	0.0485	1.99	20	99	WG363147
1,1,2,2-Tetrachloroethane	mg/l	0.0480	0.0475	1.12	20	96	WG363147
1,1,2-Trichloroethane	mg/l	0.0491	0.0487	0.808	20	98	WG363147
1,1-Dichloroethane	mg/l	0.0489	0.0475	2.82	20	98	WG363147
1,1-Dichloroethene	mg/l	0.0446	0.0439	1.62	20	89	WG363147
1,2,3-Trichloropropane	mg/l	0.0457	0.0439	4.06	20	91	WG363147
1,2-Dichlorobenzene	mg/l	0.0534	0.0516	3.51	20	107	WG363147
1,2-Dichloroethane	mg/l	0.0491	0.0478	2.58	20	98	WG363147
1,2-Dichloropropane	mg/l	0.0504	0.0475	5.98	20	101	WG363147
1,4-Dichlorobenzene	mg/l	0.0485	0.0461	5.16	20	97	WG363147
2-Butanone (MEK)	mg/l	0.236	0.228	3.42	20	94	WG363147
2-Hexanone	mg/l	0.237	0.229	3.73	20	95	WG363147
4-Methyl-2-pentanone (MIBK)	mg/l	0.232	0.215	7.32	20	93	WG363147

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Tax I.D. 62-0814289

Est. 1970

S&ME Inc. - Raleigh NC
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3201 Spring Forest Road

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Acetone	mg/l	0.210	0.204	2.59	20	84	WG363147

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
Acrylonitrile	mg/l	0.226	0.217	4.31	20	91	WG363147
Benzene	mg/l	0.0488	0.0479	1.74	20	98	WG363147
Bromochloromethane	mg/l	0.0502	0.0490	2.44	20	100	WG363147
Bromodichloromethane	mg/l	0.0474	0.0471	0.633	20	95	WG363147
Bromoform	mg/l	0.0460	0.0476	3.44	20	92	WG363147
Bromomethane	mg/l	0.0591	0.0550	7.23	20	118	WG363147
Carbon disulfide	mg/l	0.0562	0.0552	1.78	20	112	WG363147
Carbon tetrachloride	mg/l	0.0444	0.0438	1.42	20	89	WG363147
Chlorobenzene	mg/l	0.0489	0.0493	0.646	20	98	WG363147
Chlorodibromomethane	mg/l	0.0490	0.0492	0.354	20	98	WG363147
Chloroethane	mg/l	0.0535	0.0518	3.21	20	107	WG363147
Chloroform	mg/l	0.0472	0.0463	1.82	20	94	WG363147
Chloromethane	mg/l	0.0538	0.0539	0.139	20	108	WG363147
cis-1,2-Dichloroethene	mg/l	0.0493	0.0495	0.328	20	99	WG363147
cis-1,3-Dichloropropene	mg/l	0.0507	0.0497	1.99	20	101	WG363147
Dibromomethane	mg/l	0.0481	0.0475	1.14	20	96	WG363147
Ethylbenzene	mg/l	0.0494	0.0489	1.01	20	99	WG363147
Iodomethane	mg/l	0.221	0.212	4.22	20	88	WG363147
Methylene Chloride	mg/l	0.0456	0.0448	1.75	20	91	WG363147
Styrene	mg/l	0.0489	0.0484	0.981	20	98	WG363147
Tetrachloroethene	mg/l	0.0480	0.0474	1.31	20	96	WG363147
Toluene	mg/l	0.0467	0.0462	1.03	20	93	WG363147
trans-1,2-Dichloroethene	mg/l	0.0466	0.0451	3.23	20	93	WG363147
trans-1,3-Dichloropropene	mg/l	0.0477	0.0471	1.29	20	95	WG363147
trans-1,4-Dichloro-2-butene	mg/l	0.0405	0.0384	5.25	20	81	WG363147
Trichloroethene	mg/l	0.0480	0.0477	0.656	20	96	WG363147
Trichlorofluoromethane	mg/l	0.0537	0.0532	1.04	20	107	WG363147
Vinyl acetate	mg/l	0.205	0.199	2.87	26	82	WG363147
Vinyl chloride	mg/l	0.0640	0.0611	4.68	20	128	WG363147
Xylenes, Total	mg/l	0.144	0.143	0.664	20	96	WG363147
1,1,1,2-Tetrachloroethane	mg/l	0.0599	0.0605	1.13	20	120	WG363160
1,1,1-Trichloroethane	mg/l	0.0531	0.0564	5.96	20	106	WG363160
1,1,2,2-Tetrachloroethane	mg/l	0.0535	0.0537	0.420	20	107	WG363160
1,1,2-Trichloroethane	mg/l	0.0565	0.0560	0.867	20	113	WG363160
1,1-Dichloroethane	mg/l	0.0518	0.0557	7.41	20	104	WG363160
1,1-Dichloroethene	mg/l	0.0544	0.0591	8.17	20	109	WG363160
1,1-Dichloropropene	mg/l	0.0534	0.0570	6.38	20	107	WG363160
1,2,3-Trichloropropane	mg/l	0.0559	0.0537	3.97	20	112	WG363160
1,2,4-Trichlorobenzene	mg/l	0.0551	0.0550	0.187	20	110	WG363160
1,2-Dibromo-3-Chloropropane	mg/l	0.0459	0.0466	1.48	20	92	WG363160
1,2-Dibromoethane	mg/l	0.0546	0.0546	0.167	20	109	WG363160
1,2-Dichlorobenzene	mg/l	0.0543	0.0550	1.37	20	109	WG363160
1,2-Dichloroethane	mg/l	0.0513	0.0538	4.67	20	103	WG363160
1,2-Dichloropropane	mg/l	0.0541	0.0560	3.39	20	108	WG363160
1,3-Dichlorobenzene	mg/l	0.0568	0.0569	0.103	20	114	WG363160
1,3-Dichloropropane	mg/l	0.0530	0.0518	2.31	20	106	WG363160
1,4-Dichlorobenzene	mg/l	0.0545	0.0546	0.0940	20	109	WG363160
2,2-Dichloropropane	mg/l	0.0529	0.0547	3.38	20	106	WG363160
2-Butanone (MEK)	mg/l	0.251	0.253	0.770	20	101	WG363160
2-Hexanone	mg/l	0.264	0.238	10.3	20	106	WG363160
4-Methyl-2-pentanone (MIBK)	mg/l	0.262	0.242	7.87	20	105	WG363160
Acetone	mg/l	0.227	0.231	1.79	20	91	WG363160
Acrolein	mg/l	0.254	0.271	6.45	39	102	WG363160
Acrylonitrile	mg/l	0.250	0.258	2.87	20	100	WG363160
Allyl chloride	mg/l	0.00	0.00	0.00	0	0	WG363160
Benzene	mg/l	0.0524	0.0559	6.47	20	105	WG363160
Bromochloromethane	mg/l	0.0561	0.0578	3.09	20	112	WG363160
Bromodichloromethane	mg/l	0.0570	0.0584	2.35	20	114	WG363160

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Bromoform	mg/l	0.0490	0.0488	0.424	20	98	WG363160

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
Bromomethane	mg/l	0.0581	0.0647	10.7	20	116	WG363160
Carbon disulfide	mg/l	0.0603	0.0643	6.42	20	121	WG363160
Carbon tetrachloride	mg/l	0.0558	0.0605	8.12	20	112	WG363160
Chlorobenzene	mg/l	0.0560	0.0555	0.959	20	112	WG363160
Chlorodibromomethane	mg/l	0.0589	0.0582	1.26	20	118	WG363160
Chloroethane	mg/l	0.0584	0.0625	6.87	20	117	WG363160
Chloroform	mg/l	0.0508	0.0547	7.46	20	102	WG363160
Chloromethane	mg/l	0.0538	0.0602	11.2	20	108	WG363160
cis-1,2-Dichloroethene	mg/l	0.0543	0.0578	6.28	20	109	WG363160
cis-1,3-Dichloropropene	mg/l	0.0567	0.0568	0.191	20	113	WG363160
Dibromomethane	mg/l	0.0550	0.0558	1.37	20	110	WG363160
Dichlorodifluoromethane	mg/l	0.0607	0.0685	12.1	24	121	WG363160
Ethylbenzene	mg/l	0.0578	0.0570	1.49	20	116	WG363160
Iodomethane	mg/l	0.283	0.299	5.63	20	113	WG363160
Methylene Chloride	mg/l	0.0496	0.0537	8.04	20	99	WG363160
Styrene	mg/l	0.0630	0.0628	0.312	20	126	WG363160
Tetrachloroethene	mg/l	0.0574	0.0567	1.24	20	115	WG363160
Toluene	mg/l	0.0534	0.0534	0.0588	20	107	WG363160
trans-1,2-Dichloroethene	mg/l	0.0547	0.0574	4.66	20	109	WG363160
trans-1,3-Dichloropropene	mg/l	0.0535	0.0528	1.28	20	107	WG363160
trans-1,4-Dichloro-2-butene	mg/l	0.0511	0.0524	2.52	20	102	WG363160
Trichloroethene	mg/l	0.0549	0.0566	3.12	20	110	WG363160
Trichlorofluoromethane	mg/l	0.0609	0.0675	10.2	20	122	WG363160
Vinyl acetate	mg/l	0.271	0.271	0.149	26	108	WG363160
Vinyl chloride	mg/l	0.0541	0.0591	8.91	20	108	WG363160
Xylenes, Total	mg/l	0.175	0.172	1.84	20	117	WG363160
1,1,1,2-Tetrachloroethane	mg/l	0.0544	0.0552	1.49	20	109	WG363162
1,1,1-Trichloroethane	mg/l	0.0509	0.0510	0.247	20	102	WG363162
1,1,2,2-Tetrachloroethane	mg/l	0.0518	0.0568	9.35	20	104	WG363162
1,1,2-Trichloroethane	mg/l	0.0510	0.0528	3.55	20	102	WG363162
1,1-Dichloroethane	mg/l	0.0501	0.0511	1.91	20	100	WG363162
1,1-Dichloroethene	mg/l	0.0447	0.0458	2.38	20	89	WG363162
1,1-Dichloropropene	mg/l	0.0482	0.0491	1.97	20	96	WG363162
1,2,3-Trichloropropane	mg/l	0.0517	0.0554	6.94	20	103	WG363162
1,2,4-Trichlorobenzene	mg/l	0.0514	0.0546	5.91	20	103	WG363162
1,2-Dibromo-3-Chloropropane	mg/l	0.0475	0.0518	8.67	20	95	WG363162
1,2-Dibromoethane	mg/l	0.0511	0.0535	4.70	20	102	WG363162
1,2-Dichlorobenzene	mg/l	0.0511	0.0523	2.43	20	102	WG363162
1,2-Dichloroethane	mg/l	0.0512	0.0531	3.64	20	102	WG363162
1,2-Dichloropropane	mg/l	0.0552	0.0564	2.15	20	110	WG363162
1,3-Dichlorobenzene	mg/l	0.0503	0.0514	2.26	20	101	WG363162
1,3-Dichloropropane	mg/l	0.0511	0.0530	3.56	20	102	WG363162
1,4-Dichlorobenzene	mg/l	0.0491	0.0496	1.11	20	98	WG363162
2,2-Dichloropropane	mg/l	0.0636	0.0655	2.98	20	127	WG363162
2-Butanone (MEK)	mg/l	0.238	0.258	7.75	20	95	WG363162
2-Hexanone	mg/l	0.256	0.277	8.01	20	102	WG363162
4-Methyl-2-pentanone (MIBK)	mg/l	0.268	0.284	5.94	20	107	WG363162
Acetone	mg/l	0.243	0.272	11.1	20	97	WG363162
Acrolein	mg/l	0.285	0.308	7.80	39	114	WG363162
Acrylonitrile	mg/l	0.247	0.275	10.7	20	99	WG363162
Allyl chloride	mg/l	0.206	0.212	2.94	0	82	WG363162
Benzene	mg/l	0.0465	0.0475	2.11	20	93	WG363162
Bromochloromethane	mg/l	0.0467	0.0488	4.41	20	93	WG363162
Bromodichloromethane	mg/l	0.0538	0.0554	3.03	20	108	WG363162
Bromoform	mg/l	0.0565	0.0598	5.55	20	113	WG363162
Bromomethane	mg/l	0.0533	0.0539	1.13	20	107	WG363162
Carbon disulfide	mg/l	0.0573	0.0589	2.85	20	115	WG363162
Carbon tetrachloride	mg/l	0.0515	0.0520	1.11	20	103	WG363162

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Chlorobenzene	mg/l	0.0499	0.0503	0.912	20	100	WG363162

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
Chlorodibromomethane	mg/l	0.0543	0.0561	3.33	20	109	WG363162
Chloroethane	mg/l	0.0543	0.0560	3.07	20	109	WG363162
Chloroform	mg/l	0.0477	0.0486	1.73	20	95	WG363162
Chloromethane	mg/l	0.0566	0.0582	2.80	20	113	WG363162
cis-1,2-Dichloroethene	mg/l	0.0469	0.0480	2.25	20	94	WG363162
cis-1,3-Dichloropropene	mg/l	0.0545	0.0556	1.94	20	109	WG363162
Dibromomethane	mg/l	0.0530	0.0561	5.80	20	106	WG363162
Dichlorodifluoromethane	mg/l	0.0596	0.0626	4.98	24	119	WG363162
Ethylbenzene	mg/l	0.0505	0.0506	0.0647	20	101	WG363162
Iodomethane	mg/l	0.224	0.230	3.04	20	89	WG363162
Methylene Chloride	mg/l	0.0429	0.0444	3.47	20	86	WG363162
Styrene	mg/l	0.0511	0.0516	1.00	20	102	WG363162
Tetrachloroethene	mg/l	0.0481	0.0490	1.95	20	96	WG363162
Toluene	mg/l	0.0465	0.0469	0.665	20	93	WG363162
trans-1,2-Dichloroethene	mg/l	0.0471	0.0481	2.28	20	94	WG363162
trans-1,3-Dichloropropene	mg/l	0.0537	0.0555	3.27	20	107	WG363162
trans-1,4-Dichloro-2-butene	mg/l	0.0526	0.0564	6.79	20	105	WG363162
Trichloroethene	mg/l	0.0461	0.0467	1.37	20	92	WG363162
Trichlorofluoromethane	mg/l	0.0515	0.0543	5.36	20	103	WG363162
Vinyl acetate	mg/l	0.245	0.267	8.59	26	98	WG363162
Vinyl chloride	mg/l	0.0551	0.0569	3.23	20	110	WG363162
Xylenes, Total	mg/l	0.150	0.150	0.247	20	100	WG363162
1,2-Dibromo-3-Chloropropane	mg/l	0.0002	0.0002	4.06	40	108	WG363394
Ethylene Dibromide	mg/l	0.0002	0.0002	4.91	40	111	WG363394
Cyanide	mg/l	0.104	0.103	0.966	20	104	WG364599

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Barium	mg/l	1.13	0.0240	1.13	97.9	75-125	L346579-08	WG362463
Chromium	mg/l	1.08	0.00	1.13	95.6	75-125	L346579-08	WG362463
Cobalt	mg/l	1.14	0.00	1.13	101.	75-125	L346579-08	WG362463
Lead	mg/l	1.11	0.00	1.13	98.2	75-125	L346579-08	WG362463
Nickel	mg/l	1.13	0.00	1.13	100.	75-125	L346579-08	WG362463
Silver	mg/l	0.0546	0.00	1.13	4.8	75-125	L346579-08	WG362463
Tin	mg/l	1.21	0.0055	1.13	107.	75-125	L346579-08	WG362463
Vanadium	mg/l	1.12	0.0010	1.13	99.0	75-125	L346579-08	WG362463
Barium	mg/l	1.17	0.0500	1.13	99.1	75-125	L346617-04	WG362532
Chromium	mg/l	1.11	0.00	1.13	98.2	75-125	L346617-04	WG362532
Cobalt	mg/l	1.13	0.0032	1.13	99.7	75-125	L346617-04	WG362532
Lead	mg/l	1.12	0.00	1.13	99.1	75-125	L346617-04	WG362532
Nickel	mg/l	1.12	0.0019	1.13	98.9	75-125	L346617-04	WG362532
Silver	mg/l	0.206	0.00	1.13	18.2	75-125	L346617-04	WG362532
Tin	mg/l	1.14	0.00	1.13	101.	75-125	L346617-04	WG362532
Vanadium	mg/l	1.13	0.0034	1.13	99.7	75-125	L346617-04	WG362532
Antimony	mg/l	0.0526	0.00	.0567	92.8	75-125	L346603-10	WG362561
Arsenic	mg/l	0.0549	0.00	.0567	96.8	75-125	L346603-10	WG362561
Beryllium	mg/l	0.0533	0.00	.0567	94.0	75-125	L346603-10	WG362561
Cadmium	mg/l	0.0540	0.00	.0567	95.2	75-125	L346603-10	WG362561
Copper	mg/l	0.0588	0.0057	.0567	93.7	75-125	L346603-10	WG362561
Selenium	mg/l	0.0548	0.00	.0567	96.6	75-125	L346603-10	WG362561
Thallium	mg/l	0.0578	0.00	.0567	102.	75-125	L346603-10	WG362561
Zinc	mg/l	0.0584	0.00	.0567	103.	75-125	L346603-10	WG362561
Mercury	mg/l	0.0029	0.00	.003	96.7	70-130	L346603-02	WG362574

ENVIRONMENTAL
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Tax I.D. 62-0814289

Est. 1970

S&ME Inc. - Raleigh NC
Jerry Paul
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L346603

June 06, 2008

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Fluoride	mg/l	8.14	0.00	5	163.	80-120	L346661-01	WG362585
Mercury	mg/l	0.0028	0.0006	.003	75.7	70-130	L346824-02	WG362800
Sulfide	mg/l	0.947	0.00	1	94.7	90-110	L346824-02	WG362813
Cyanide	mg/l	0.241	0.0210	.2	110.	90-110	L346579-08	WG363113
1,1,1,2-Tetrachloroethane	mg/l	4.32	0.00	.05	86.4	45-152	L346708-01	WG363147
1,1,1-Trichloroethane	mg/l	4.07	0.00	.05	81.5	31-161	L346708-01	WG363147
1,1,2,2-Tetrachloroethane	mg/l	4.53	0.00	.05	90.6	49-149	L346708-01	WG363147
1,1,2-Trichloroethane	mg/l	4.41	0.00	.05	88.2	46-145	L346708-01	WG363147
1,1-Dichloroethane	mg/l	4.09	0.00	.05	81.9	30-159	L346708-01	WG363147
1,1-Dichloroethene	mg/l	3.40	0.00	.05	68.0	10-162	L346708-01	WG363147
1,2,3-Trichloropropane	mg/l	4.30	0.00	.05	86.1	48-148	L346708-01	WG363147
1,2-Dichlorobenzene	mg/l	4.60	0.00	.05	92.1	40-139	L346708-01	WG363147
1,2-Dichloroethane	mg/l	4.15	0.00	.05	83.0	29-167	L346708-01	WG363147
1,2-Dichloropropane	mg/l	4.09	0.00	.05	81.8	39-148	L346708-01	WG363147
1,4-Dichlorobenzene	mg/l	4.19	0.00	.05	83.8	32-136	L346708-01	WG363147
2-Butanone (MEK)	mg/l	22.7	0.00	.25	90.8	32-151	L346708-01	WG363147
2-Hexanone	mg/l	22.9	0.00	.25	91.6	41-155	L346708-01	WG363147
4-Methyl-2-pentanone (MIBK)	mg/l	22.0	0.00	.25	87.8	40-160	L346708-01	WG363147
Acetone	mg/l	20.4	0.00	.25	81.5	25-157	L346708-01	WG363147
Acrylonitrile	mg/l	21.3	0.00	.25	85.1	37-162	L346708-01	WG363147
Benzene	mg/l	3.88	0.00	.05	77.6	16-158	L346708-01	WG363147
Bromochloromethane	mg/l	4.05	0.00	.05	81.1	36-154	L346708-01	WG363147
Bromodichloromethane	mg/l	4.35	0.00	.05	87.0	45-147	L346708-01	WG363147
Bromoform	mg/l	4.43	0.00	.05	88.6	38-152	L346708-01	WG363147
Bromomethane	mg/l	4.12	0.00	.05	82.5	0-191	L346708-01	WG363147
Carbon disulfide	mg/l	2.20	0.0276	.05	43.4	10-166	L346708-01	WG363147
Carbon tetrachloride	mg/l	3.65	0.00	.05	73.0	22-168	L346708-01	WG363147
Chlorobenzene	mg/l	4.14	0.00	.05	82.8	33-148	L346708-01	WG363147
Chlorodibromomethane	mg/l	4.33	0.00	.05	86.6	48-151	L346708-01	WG363147
Chloroethane	mg/l	3.86	0.00	.05	77.3	4-176	L346708-01	WG363147
Chloroform	mg/l	4.14	0.00	.05	82.9	37-147	L346708-01	WG363147
Chloromethane	mg/l	3.34	0.00	.05	66.7	10-174	L346708-01	WG363147
cis-1,2-Dichloroethene	mg/l	7.84	4.20	.05	72.8	29-156	L346708-01	WG363147
cis-1,3-Dichloropropene	mg/l	4.30	0.00	.05	85.9	35-148	L346708-01	WG363147
Dibromomethane	mg/l	4.05	0.00	.05	81.1	36-152	L346708-01	WG363147
Ethylbenzene	mg/l	4.05	0.00	.05	81.0	29-150	L346708-01	WG363147
Iodomethane	mg/l	16.4	0.0228	.25	65.6	9-169	L346708-01	WG363147
Methylene Chloride	mg/l	3.67	0.00	.05	73.5	23-151	L346708-01	WG363147
Styrene	mg/l	4.32	0.00	.05	86.3	38-149	L346708-01	WG363147
Tetrachloroethene	mg/l	3.31	0.00	.05	66.1	13-157	L346708-01	WG363147
Toluene	mg/l	3.71	0.00	.05	74.1	22-152	L346708-01	WG363147
trans-1,2-Dichloroethene	mg/l	3.33	0.0670	.05	65.3	11-160	L346708-01	WG363147
trans-1,3-Dichloropropene	mg/l	4.08	0.00	.05	81.6	33-153	L346708-01	WG363147
trans-1,4-Dichloro-2-butene	mg/l	4.08	0.00	.05	81.5	19-151	L346708-01	WG363147
Trichloroethene	mg/l	7.99	5.00	.05	59.7	18-163	L346708-01	WG363147
Trichlorofluoromethane	mg/l	3.99	0.00	.05	79.9	10-177	L346708-01	WG363147
Vinyl acetate	mg/l	19.1	0.0127	.25	76.3	0-196	L346708-01	WG363147
Vinyl chloride	mg/l	4.77	0.0290	.05	94.8	0-179	L346708-01	WG363147
Xylenes, Total	mg/l	11.7	0.00	.15	77.9	27-151	L346708-01	WG363147
1,1,1,2-Tetrachloroethane	mg/l	0.0579	0.00	.05	116.	45-152	L346558-10	WG363160
1,1,1-Trichloroethane	mg/l	0.0552	0.00	.05	110.	31-161	L346558-10	WG363160
1,1,2,2-Tetrachloroethane	mg/l	0.0517	0.00	.05	103.	49-149	L346558-10	WG363160
1,1,2-Trichloroethane	mg/l	0.0545	0.00	.05	109.	46-145	L346558-10	WG363160
1,1-Dichloroethane	mg/l	0.0515	0.00	.05	103.	30-159	L346558-10	WG363160

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Quality Assurance Report
Level II

L346603

June 06, 2008

1,1-Dichloroethene	mg/l	0.0621	0.0047	.05	115.	10-162	L346558-10	WG363160

		Matrix Spike						
Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1-Dichloropropene	mg/l	0.0553	0.00	.05	111.	14-162	L346558-10	WG363160
1,2,3-Trichloropropane	mg/l	0.0513	0.00	.05	103.	48-148	L346558-10	WG363160
1,2,4-Trichlorobenzene	mg/l	0.0554	0.00	.05	111.	27-142	L346558-10	WG363160
1,2-Dibromo-3-Chloropropane	mg/l	0.0474	0.00	.05	94.8	37-148	L346558-10	WG363160
1,2-Dibromoethane	mg/l	0.0528	0.00	.05	106.	41-149	L346558-10	WG363160
1,2-Dichlorobenzene	mg/l	0.0550	0.00	.05	110.	40-139	L346558-10	WG363160
1,2-Dichloroethane	mg/l	0.0502	0.00	.05	100.	29-167	L346558-10	WG363160
1,2-Dichloropropane	mg/l	0.0505	0.00	.05	101.	39-148	L346558-10	WG363160
1,3-Dichlorobenzene	mg/l	0.0553	0.00	.05	111.	32-148	L346558-10	WG363160
1,3-Dichloropropane	mg/l	0.0501	0.00	.05	100.	44-142	L346558-10	WG363160
1,4-Dichlorobenzene	mg/l	0.0561	0.00	.05	112.	32-136	L346558-10	WG363160
2,2-Dichloropropane	mg/l	0.0544	0.00	.05	109.	14-158	L346558-10	WG363160
2-Butanone (MEK)	mg/l	0.246	0.00	.25	98.3	32-151	L346558-10	WG363160
2-Hexanone	mg/l	0.237	0.00	.25	94.6	41-155	L346558-10	WG363160
4-Methyl-2-pentanone (MIBK)	mg/l	0.239	0.00	.25	95.7	40-160	L346558-10	WG363160
Acetone	mg/l	0.204	0.00	.25	81.6	25-157	L346558-10	WG363160
Acrolein	mg/l	0.235	0.00	.25	94.0	0-179	L346558-10	WG363160
Acrylonitrile	mg/l	0.235	0.00	.25	94.1	37-162	L346558-10	WG363160
Allyl chloride	mg/l	0.00	0.00	.25	0.0	0-0	L346558-10	WG363160
Benzene	mg/l	0.0526	0.00	.05	105.	16-158	L346558-10	WG363160
Bromochloromethane	mg/l	0.0540	0.00	.05	108.	36-154	L346558-10	WG363160
Bromodichloromethane	mg/l	0.0531	0.00	.05	106.	45-147	L346558-10	WG363160
Bromoform	mg/l	0.0473	0.00	.05	94.5	38-152	L346558-10	WG363160
Bromomethane	mg/l	0.0535	0.00	.05	107.	0-191	L346558-10	WG363160
Carbon disulfide	mg/l	0.0270	0.00	.05	54.1	10-166	L346558-10	WG363160
Carbon tetrachloride	mg/l	0.0624	0.00	.05	125.	22-168	L346558-10	WG363160
Chlorobenzene	mg/l	0.0549	0.00	.05	110.	33-148	L346558-10	WG363160
Chlorodibromomethane	mg/l	0.0563	0.00	.05	113.	48-151	L346558-10	WG363160
Chloroethane	mg/l	0.0521	0.00	.05	104.	4-176	L346558-10	WG363160
Chloroform	mg/l	0.0499	0.00	.05	99.9	37-147	L346558-10	WG363160
Chloromethane	mg/l	0.0463	0.00	.05	92.7	10-174	L346558-10	WG363160
cis-1,2-Dichloroethene	mg/l	0.0752	0.0220	.05	106.	29-156	L346558-10	WG363160
cis-1,3-Dichloropropene	mg/l	0.0521	0.00	.05	104.	35-148	L346558-10	WG363160
Dibromomethane	mg/l	0.0498	0.00	.05	99.7	36-152	L346558-10	WG363160
Dichlorodifluoromethane	mg/l	0.0573	0.00	.05	115.	0-200	L346558-10	WG363160
Ethylbenzene	mg/l	0.0570	0.00	.05	114.	29-150	L346558-10	WG363160
Iodomethane	mg/l	0.283	0.00	.25	113.	9-169	L346558-10	WG363160
Methylene Chloride	mg/l	0.0485	0.00	.05	97.0	23-151	L346558-10	WG363160
Styrene	mg/l	0.0602	0.00	.05	120.	38-149	L346558-10	WG363160
Tetrachloroethene	mg/l	0.535	0.450	.05	170.	13-157	L346558-10	WG363160
Toluene	mg/l	0.0501	0.00	.05	100.	22-152	L346558-10	WG363160
trans-1,2-Dichloroethene	mg/l	0.0592	0.0036	.05	111.	11-160	L346558-10	WG363160
trans-1,3-Dichloropropene	mg/l	0.0494	0.00	.05	98.7	33-153	L346558-10	WG363160
trans-1,4-Dichloro-2-butene	mg/l	0.0482	0.00	.05	96.5	19-151	L346558-10	WG363160
Trichloroethene	mg/l	0.342	0.280	.05	124.	18-163	L346558-10	WG363160
Trichlorofluoromethane	mg/l	0.0608	0.00	.05	122.	10-177	L346558-10	WG363160
Vinyl acetate	mg/l	0.279	0.00	.25	112.	0-196	L346558-10	WG363160
Vinyl chloride	mg/l	0.0489	0.00	.05	97.8	0-179	L346558-10	WG363160
Xylenes, Total	mg/l	0.170	0.00	.15	114.	27-151	L346558-10	WG363160
1,1,1,2-Tetrachloroethane	mg/l	0.0483	0.00	.05	96.6	45-152	L346603-10	WG363162
1,1,1-Trichloroethane	mg/l	0.0453	0.00	.05	90.7	31-161	L346603-10	WG363162
1,1,2,2-Tetrachloroethane	mg/l	0.0503	0.00	.05	101.	49-149	L346603-10	WG363162
1,1,2-Trichloroethane	mg/l	0.0464	0.00	.05	92.8	46-145	L346603-10	WG363162
1,1-Dichloroethane	mg/l	0.0460	0.00	.05	91.9	30-159	L346603-10	WG363162
1,1-Dichloroethene	mg/l	0.0416	0.00	.05	83.2	10-162	L346603-10	WG363162
1,1-Dichloropropene	mg/l	0.0416	0.00	.05	83.2	14-162	L346603-10	WG363162
1,2,3-Trichloropropane	mg/l	0.0482	0.00	.05	96.4	48-148	L346603-10	WG363162
1,2,4-Trichlorobenzene	mg/l	0.0460	0.00	.05	92.0	27-142	L346603-10	WG363162

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1,2-Dibromo-3-Chloropropane	mg/l	0.0455	0.00	.05	90.9	37-148	L346603-10	WG363162

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,2-Dibromoethane	mg/l	0.0464	0.00	.05	92.9	41-149	L346603-10	WG363162
1,2-Dichlorobenzene	mg/l	0.0457	0.00	.05	91.4	40-139	L346603-10	WG363162
1,2-Dichloroethane	mg/l	0.0466	0.00	.05	93.3	29-167	L346603-10	WG363162
1,2-Dichloropropane	mg/l	0.0483	0.00	.05	96.7	39-148	L346603-10	WG363162
1,3-Dichlorobenzene	mg/l	0.0461	0.00	.05	92.1	32-148	L346603-10	WG363162
1,3-Dichloropropane	mg/l	0.0452	0.00	.05	90.5	44-142	L346603-10	WG363162
1,4-Dichlorobenzene	mg/l	0.0442	0.00	.05	88.3	32-136	L346603-10	WG363162
2,2-Dichloropropane	mg/l	0.0562	0.00	.05	112.	14-158	L346603-10	WG363162
2-Butanone (MEK)	mg/l	0.222	0.00	.25	88.6	32-151	L346603-10	WG363162
2-Hexanone	mg/l	0.241	0.00	.25	96.4	41-155	L346603-10	WG363162
4-Methyl-2-pentanone (MIBK)	mg/l	0.246	0.00	.25	98.3	40-160	L346603-10	WG363162
Acetone	mg/l	0.227	0.0130	.25	85.6	25-157	L346603-10	WG363162
Acrolein	mg/l	0.240	0.00	.25	96.0	0-179	L346603-10	WG363162
Acrylonitrile	mg/l	0.250	0.00	.25	100.	37-162	L346603-10	WG363162
Allyl chloride	mg/l	0.134	0.00	.25	53.5	0-0	L346603-10	WG363162
Benzene	mg/l	0.0417	0.00	.05	83.4	16-158	L346603-10	WG363162
Bromochloromethane	mg/l	0.0436	0.00	.05	87.2	36-154	L346603-10	WG363162
Bromodichloromethane	mg/l	0.0482	0.00	.05	96.3	45-147	L346603-10	WG363162
Bromoform	mg/l	0.0529	0.00	.05	106.	38-152	L346603-10	WG363162
Bromomethane	mg/l	0.0497	0.00	.05	99.5	0-191	L346603-10	WG363162
Carbon disulfide	mg/l	0.0372	0.00	.05	74.5	10-166	L346603-10	WG363162
Carbon tetrachloride	mg/l	0.0458	0.00	.05	91.5	22-168	L346603-10	WG363162
Chlorobenzene	mg/l	0.0441	0.00	.05	88.3	33-148	L346603-10	WG363162
Chlorodibromomethane	mg/l	0.0495	0.00	.05	99.0	48-151	L346603-10	WG363162
Chloroethane	mg/l	0.0501	0.00	.05	100.	4-176	L346603-10	WG363162
Chloroform	mg/l	0.0440	0.00	.05	88.0	37-147	L346603-10	WG363162
Chloromethane	mg/l	0.0515	0.00	.05	103.	10-174	L346603-10	WG363162
cis-1,2-Dichloroethene	mg/l	0.0433	0.00	.05	86.6	29-156	L346603-10	WG363162
cis-1,3-Dichloropropene	mg/l	0.0467	0.00	.05	93.5	35-148	L346603-10	WG363162
Dibromomethane	mg/l	0.0480	0.00	.05	96.1	36-152	L346603-10	WG363162
Dichlorodifluoromethane	mg/l	0.0549	0.00	.05	110.	0-200	L346603-10	WG363162
Ethylbenzene	mg/l	0.0443	0.00	.05	88.6	29-150	L346603-10	WG363162
Iodomethane	mg/l	0.210	0.00	.25	83.8	9-169	L346603-10	WG363162
Methylene Chloride	mg/l	0.0413	0.00	.05	82.7	23-151	L346603-10	WG363162
Styrene	mg/l	0.0468	0.00	.05	93.6	38-149	L346603-10	WG363162
Tetrachloroethene	mg/l	0.0410	0.00	.05	82.0	13-157	L346603-10	WG363162
Toluene	mg/l	0.0407	0.0006	.05	80.0	22-152	L346603-10	WG363162
trans-1,2-Dichloroethene	mg/l	0.0422	0.00	.05	84.4	11-160	L346603-10	WG363162
trans-1,3-Dichloropropene	mg/l	0.0478	0.00	.05	95.6	33-153	L346603-10	WG363162
trans-1,4-Dichloro-2-butene	mg/l	0.0527	0.00	.05	105.	19-151	L346603-10	WG363162
Trichloroethene	mg/l	0.0392	0.00	.05	78.4	18-163	L346603-10	WG363162
Trichlorofluoromethane	mg/l	0.0495	0.00	.05	99.0	10-177	L346603-10	WG363162
Vinyl acetate	mg/l	0.230	0.00	.25	92.0	0-196	L346603-10	WG363162
Vinyl chloride	mg/l	0.0498	0.00	.05	99.7	0-179	L346603-10	WG363162
Xylenes, Total	mg/l	0.132	0.00	.15	87.9	27-151	L346603-10	WG363162
1,2-Dibromo-3-Chloropropane	mg/l	0.0001	0.00	.0001	105.	60-140	L347040-05	WG363394
Ethylene Dibromide	mg/l	0.0001	0.00	.0001	106.	60-140	L347040-05	WG363394
Cyanide	mg/l	0.232	0.00	.2	116.	90-110	L348376-01	WG364599

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
Barium	mg/l	1.13	1.13	0.00	20	97.9	L346579-08	WG362463
Chromium	mg/l	1.10	1.08	1.83	20	97.3	L346579-08	WG362463
Cobalt	mg/l	1.14	1.14	0.00	20	101.	L346579-08	WG362463
Lead	mg/l	1.09	1.11	1.82	20	96.5	L346579-08	WG362463
Nickel	mg/l	1.13	1.13	0.00	20	100.	L346579-08	WG362463

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Est. 1970

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Jerry Paul
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L346603

June 06, 2008

Silver	mg/l	0.0712	0.0546	26.4	20	6.30	L346579-08	WG362463

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
Tin	mg/l	1.16	1.21	4.22	20	102.	L346579-08	WG362463
Vanadium	mg/l	1.11	1.12	0.897	20	98.1	L346579-08	WG362463
Barium	mg/l	1.06	1.17	9.87	20	89.4	L346617-04	WG362532
Chromium	mg/l	1.01	1.11	9.43	20	89.4	L346617-04	WG362532
Cobalt	mg/l	1.02	1.13	10.2	20	90.0	L346617-04	WG362532
Lead	mg/l	1.02	1.12	9.35	20	90.3	L346617-04	WG362532
Nickel	mg/l	1.03	1.12	8.37	20	91.0	L346617-04	WG362532
Silver	mg/l	0.286	0.206	32.5	20	25.3	L346617-04	WG362532
Tin	mg/l	1.03	1.14	10.1	20	91.2	L346617-04	WG362532
Vanadium	mg/l	1.03	1.13	9.26	20	90.9	L346617-04	WG362532
Antimony	mg/l	0.0548	0.0526	4.10	20	96.6	L346603-10	WG362561
Arsenic	mg/l	0.0548	0.0549	0.182	20	96.6	L346603-10	WG362561
Beryllium	mg/l	0.0533	0.0533	0.00	20	94.0	L346603-10	WG362561
Cadmium	mg/l	0.0548	0.0540	1.47	20	96.6	L346603-10	WG362561
Copper	mg/l	0.0590	0.0588	0.340	20	94.0	L346603-10	WG362561
Selenium	mg/l	0.0527	0.0548	3.91	20	92.9	L346603-10	WG362561
Thallium	mg/l	0.0587	0.0578	1.55	20	104.	L346603-10	WG362561
Zinc	mg/l	0.0585	0.0584	0.171	20	103.	L346603-10	WG362561
Mercury	mg/l	0.0028	0.0029	0.345	20	96.3	L346603-02	WG362574
Fluoride	mg/l	8.28	8.14	1.71	20	166.	L346661-01	WG362585
Mercury	mg/l	0.0028	0.0028	1.39	20	74.3	L346824-02	WG362800
Sulfide	mg/l	0.939	0.947	0.848	20	93.9	L346824-02	WG362813
Cyanide	mg/l	0.238	0.241	1.25	20	109.	L346579-08	WG363113
1,1,1,2-Tetrachloroethane	mg/l	4.25	4.32	1.63	21	85.0	L346708-01	WG363147
1,1,1-Trichloroethane	mg/l	3.94	4.07	3.24	23	78.9	L346708-01	WG363147
1,1,2,2-Tetrachloroethane	mg/l	4.68	4.53	3.20	22	93.5	L346708-01	WG363147
1,1,2-Trichloroethane	mg/l	4.37	4.41	0.872	20	87.4	L346708-01	WG363147
1,1-Dichloroethane	mg/l	3.90	4.09	4.82	21	78.0	L346708-01	WG363147
1,1-Dichloroethene	mg/l	3.28	3.40	3.45	23	65.7	L346708-01	WG363147
1,2,3-Trichloropropane	mg/l	4.15	4.30	3.72	23	82.9	L346708-01	WG363147
1,2-Dichlorobenzene	mg/l	4.63	4.60	0.623	23	92.6	L346708-01	WG363147
1,2-Dichloroethane	mg/l	4.01	4.15	3.51	21	80.2	L346708-01	WG363147
1,2-Dichloropropane	mg/l	4.19	4.09	2.43	20	83.8	L346708-01	WG363147
1,4-Dichlorobenzene	mg/l	4.15	4.19	1.05	23	82.9	L346708-01	WG363147
2-Butanone (MEK)	mg/l	23.0	22.7	1.11	26	91.8	L346708-01	WG363147
2-Hexanone	mg/l	23.9	22.9	4.43	28	95.8	L346708-01	WG363147
4-Methyl-2-pentanone (MIBK)	mg/l	22.7	22.0	3.19	28	90.7	L346708-01	WG363147
Acetone	mg/l	20.7	20.4	1.33	26	82.6	L346708-01	WG363147
Acrylonitrile	mg/l	21.4	21.3	0.415	24	85.5	L346708-01	WG363147
Benzene	mg/l	3.72	3.88	4.16	21	74.4	L346708-01	WG363147
Bromochloromethane	mg/l	4.01	4.05	0.983	21	80.3	L346708-01	WG363147
Bromodichloromethane	mg/l	4.21	4.35	3.23	20	84.2	L346708-01	WG363147
Bromoform	mg/l	4.41	4.43	0.380	20	88.3	L346708-01	WG363147
Bromomethane	mg/l	3.80	4.12	8.27	35	75.9	L346708-01	WG363147
Carbon disulfide	mg/l	2.06	2.20	6.33	25	40.7	L346708-01	WG363147
Carbon tetrachloride	mg/l	3.29	3.65	10.3	24	65.8	L346708-01	WG363147
Chlorobenzene	mg/l	4.01	4.14	3.24	22	80.1	L346708-01	WG363147
Chlorodibromomethane	mg/l	4.42	4.33	2.15	21	88.4	L346708-01	WG363147
Chloroethane	mg/l	3.67	3.86	5.04	27	73.5	L346708-01	WG363147
Chloroform	mg/l	4.05	4.14	2.40	21	80.9	L346708-01	WG363147
Chloromethane	mg/l	3.13	3.34	6.42	28	62.6	L346708-01	WG363147

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June 06, 2008

cis-1,2-Dichloroethene	mg/l	7.57	7.84	3.54	22	67.3	L346708-01	WG363147

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
cis-1,3-Dichloropropene	mg/l	4.21	4.30	2.06	21	84.2	L346708-01	WG363147
Dibromomethane	mg/l	4.08	4.05	0.539	20	81.5	L346708-01	WG363147
Ethylbenzene	mg/l	3.87	4.05	4.63	24	77.3	L346708-01	WG363147
Iodomethane	mg/l	16.2	16.4	1.47	27	64.6	L346708-01	WG363147
Methylene Chloride	mg/l	3.53	3.67	3.88	21	70.7	L346708-01	WG363147
Styrene	mg/l	4.15	4.32	3.85	23	83.0	L346708-01	WG363147
Tetrachloroethene	mg/l	3.21	3.31	3.07	24	64.1	L346708-01	WG363147
Toluene	mg/l	3.67	3.71	0.975	22	73.4	L346708-01	WG363147
trans-1,2-Dichloroethene	mg/l	3.12	3.33	6.53	23	61.0	L346708-01	WG363147
trans-1,3-Dichloropropene	mg/l	4.14	4.08	1.37	22	82.7	L346708-01	WG363147
trans-1,4-Dichloro-2-butene	mg/l	4.14	4.08	1.56	29	82.8	L346708-01	WG363147
Trichloroethene	mg/l	7.97	7.99	0.188	21	59.4	L346708-01	WG363147
Trichlorofluoromethane	mg/l	3.83	3.99	4.07	24	76.7	L346708-01	WG363147
Vinyl acetate	mg/l	18.9	19.1	1.05	26	75.5	L346708-01	WG363147
Vinyl chloride	mg/l	3.69	4.77	25.4	26	73.3	L346708-01	WG363147
Xylenes, Total	mg/l	11.4	11.7	2.66	23	75.9	L346708-01	WG363147
1,1,1,2-Tetrachloroethane	mg/l	0.0612	0.0579	5.49	21	122.	L346558-10	WG363160
1,1,1-Trichloroethane	mg/l	0.0549	0.0552	0.443	23	110.	L346558-10	WG363160
1,1,2,2-Tetrachloroethane	mg/l	0.0558	0.0517	7.59	22	112.	L346558-10	WG363160
1,1,2-Trichloroethane	mg/l	0.0578	0.0545	5.82	20	116.	L346558-10	WG363160
1,1-Dichloroethane	mg/l	0.0510	0.0515	1.03	21	102.	L346558-10	WG363160
1,1-Dichloroethene	mg/l	0.0617	0.0621	0.570	23	114.	L346558-10	WG363160
1,1-Dichloropropene	mg/l	0.0549	0.0553	0.725	23	110.	L346558-10	WG363160
1,2,3-Trichloropropane	mg/l	0.0571	0.0513	10.8	23	114.	L346558-10	WG363160
1,2,4-Trichlorobenzene	mg/l	0.0565	0.0554	2.03	30	113.	L346558-10	WG363160
1,2-Dibromo-3-Chloropropane	mg/l	0.0491	0.0474	3.51	27	98.2	L346558-10	WG363160
1,2-Dibromoethane	mg/l	0.0563	0.0528	6.56	21	113.	L346558-10	WG363160
1,2-Dichlorobenzene	mg/l	0.0546	0.0550	0.823	23	109.	L346558-10	WG363160
1,2-Dichloroethane	mg/l	0.0502	0.0502	0.137	21	100.	L346558-10	WG363160
1,2-Dichloropropane	mg/l	0.0500	0.0505	0.915	20	100.	L346558-10	WG363160
1,3-Dichlorobenzene	mg/l	0.0586	0.0553	5.82	24	117.	L346558-10	WG363160
1,3-Dichloropropane	mg/l	0.0525	0.0501	4.78	20	105.	L346558-10	WG363160
1,4-Dichlorobenzene	mg/l	0.0563	0.0561	0.361	23	113.	L346558-10	WG363160
2,2-Dichloropropane	mg/l	0.0553	0.0544	1.57	23	111.	L346558-10	WG363160
2-Butanone (MEK)	mg/l	0.256	0.246	4.09	26	102.	L346558-10	WG363160
2-Hexanone	mg/l	0.266	0.237	11.6	28	106.	L346558-10	WG363160
4-Methyl-2-pentanone (MIBK)	mg/l	0.259	0.239	7.98	28	104.	L346558-10	WG363160
Acetone	mg/l	0.221	0.204	8.07	26	88.4	L346558-10	WG363160
Acrolein	mg/l	0.248	0.235	5.30	39	99.1	L346558-10	WG363160
Acrylonitrile	mg/l	0.246	0.235	4.55	24	98.5	L346558-10	WG363160
Allyl chloride	mg/l	0.00	0.00	0.00	0	0.00	L346558-10	WG363160
Benzene	mg/l	0.0519	0.0526	1.31	21	104.	L346558-10	WG363160
Bromochloromethane	mg/l	0.0559	0.0540	3.38	21	112.	L346558-10	WG363160
Bromodichloromethane	mg/l	0.0527	0.0531	0.705	20	105.	L346558-10	WG363160
Bromoform	mg/l	0.0512	0.0473	8.10	20	102.	L346558-10	WG363160
Bromomethane	mg/l	0.0513	0.0535	4.18	35	103.	L346558-10	WG363160
Carbon disulfide	mg/l	0.0614	0.0270	77.7	25	123.	L346558-10	WG363160
Carbon tetrachloride	mg/l	0.0579	0.0624	7.57	24	116.	L346558-10	WG363160
Chlorobenzene	mg/l	0.0571	0.0549	3.91	22	114.	L346558-10	WG363160
Chlorodibromomethane	mg/l	0.0597	0.0563	5.96	21	119.	L346558-10	WG363160
Chloroethane	mg/l	0.0567	0.0521	8.40	27	113.	L346558-10	WG363160
Chloroform	mg/l	0.0498	0.0499	0.282	21	99.6	L346558-10	WG363160
Chloromethane	mg/l	0.0465	0.0463	0.320	28	93.0	L346558-10	WG363160
cis-1,2-Dichloroethene	mg/l	0.0745	0.0752	0.996	22	105.	L346558-10	WG363160
cis-1,3-Dichloropropene	mg/l	0.0526	0.0521	0.958	21	105.	L346558-10	WG363160
Dibromomethane	mg/l	0.0512	0.0498	2.65	20	102.	L346558-10	WG363160
Dichlorodifluoromethane	mg/l	0.0557	0.0573	2.85	26	111.	L346558-10	WG363160
Ethylbenzene	mg/l	0.0597	0.0570	4.61	24	119.	L346558-10	WG363160

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Iodomethane	mg/l	0.290	0.283	2.54	27	116.	L346558-10	WG363160

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
Methylene Chloride	mg/l	0.0497	0.0485	2.45	21	99.4	L346558-10	WG363160
Styrene	mg/l	0.0643	0.0602	6.51	23	129.	L346558-10	WG363160
Tetrachloroethene	mg/l	0.523	0.535	2.29	24	146.	L346558-10	WG363160
Toluene	mg/l	0.0500	0.0501	0.0965	22	100.	L346558-10	WG363160
trans-1,2-Dichloroethene	mg/l	0.0595	0.0592	0.595	23	112.	L346558-10	WG363160
trans-1,3-Dichloropropene	mg/l	0.0508	0.0494	2.84	22	102.	L346558-10	WG363160
trans-1,4-Dichloro-2-butene	mg/l	0.0507	0.0482	4.90	29	101.	L346558-10	WG363160
Trichloroethene	mg/l	0.329	0.342	3.78	21	99.0	L346558-10	WG363160
Trichlorofluoromethane	mg/l	0.0624	0.0608	2.71	24	125.	L346558-10	WG363160
Vinyl acetate	mg/l	0.283	0.279	1.31	26	113.	L346558-10	WG363160
Vinyl chloride	mg/l	0.0492	0.0489	0.544	26	98.3	L346558-10	WG363160
Xylenes, Total	mg/l	0.180	0.170	5.50	23	120.	L346558-10	WG363160
1,1,1,2-Tetrachloroethane	mg/l	0.0489	0.0483	1.27	21	97.8	L346603-10	WG363162
1,1,1-Trichloroethane	mg/l	0.0451	0.0453	0.479	23	90.3	L346603-10	WG363162
1,1,2,2-Tetrachloroethane	mg/l	0.0520	0.0503	3.32	22	104.	L346603-10	WG363162
1,1,2-Trichloroethane	mg/l	0.0471	0.0464	1.42	20	94.1	L346603-10	WG363162
1,1-Dichloroethane	mg/l	0.0463	0.0460	0.818	21	92.7	L346603-10	WG363162
1,1-Dichloroethene	mg/l	0.0417	0.0416	0.309	23	83.4	L346603-10	WG363162
1,1-Dichloropropene	mg/l	0.0420	0.0416	1.07	23	84.1	L346603-10	WG363162
1,2,3-Trichloropropane	mg/l	0.0501	0.0482	3.82	23	100.	L346603-10	WG363162
1,2,4-Trichlorobenzene	mg/l	0.0463	0.0460	0.594	30	92.6	L346603-10	WG363162
1,2-Dibromo-3-Chloropropane	mg/l	0.0488	0.0455	7.13	27	97.7	L346603-10	WG363162
1,2-Dibromoethane	mg/l	0.0479	0.0464	3.12	21	95.8	L346603-10	WG363162
1,2-Dichlorobenzene	mg/l	0.0477	0.0457	4.25	23	95.3	L346603-10	WG363162
1,2-Dichloroethane	mg/l	0.0479	0.0466	2.62	21	95.8	L346603-10	WG363162
1,2-Dichloropropane	mg/l	0.0499	0.0483	3.26	20	99.9	L346603-10	WG363162
1,3-Dichlorobenzene	mg/l	0.0455	0.0461	1.26	24	91.0	L346603-10	WG363162
1,3-Dichloropropane	mg/l	0.0466	0.0452	2.86	20	93.1	L346603-10	WG363162
1,4-Dichlorobenzene	mg/l	0.0451	0.0442	2.07	23	90.1	L346603-10	WG363162
2,2-Dichloropropane	mg/l	0.0582	0.0562	3.57	23	116.	L346603-10	WG363162
2-Butanone (MEK)	mg/l	0.241	0.222	8.58	26	96.6	L346603-10	WG363162
2-Hexanone	mg/l	0.254	0.241	5.19	28	101.	L346603-10	WG363162
4-Methyl-2-pentanone (MIBK)	mg/l	0.261	0.246	5.98	28	104.	L346603-10	WG363162
Acetone	mg/l	0.243	0.227	6.82	26	92.0	L346603-10	WG363162
Acrolein	mg/l	0.252	0.240	4.97	39	101.	L346603-10	WG363162
Acrylonitrile	mg/l	0.264	0.250	5.22	24	106.	L346603-10	WG363162
Allyl chloride	mg/l	0.133	0.134	0.919	0	53.0	L346603-10	WG363162
Benzene	mg/l	0.0423	0.0417	1.43	21	84.6	L346603-10	WG363162
Bromochloromethane	mg/l	0.0447	0.0436	2.41	21	89.4	L346603-10	WG363162
Bromodichloromethane	mg/l	0.0495	0.0482	2.73	20	99.0	L346603-10	WG363162
Bromoform	mg/l	0.0541	0.0529	2.39	20	108.	L346603-10	WG363162
Bromomethane	mg/l	0.0475	0.0497	4.56	35	95.0	L346603-10	WG363162
Carbon disulfide	mg/l	0.0369	0.0372	1.02	25	73.7	L346603-10	WG363162
Carbon tetrachloride	mg/l	0.0455	0.0458	0.498	24	91.1	L346603-10	WG363162
Chlorobenzene	mg/l	0.0445	0.0441	0.934	22	89.1	L346603-10	WG363162
Chlorodibromomethane	mg/l	0.0510	0.0495	3.04	21	102.	L346603-10	WG363162
Chloroethane	mg/l	0.0486	0.0501	2.89	27	97.3	L346603-10	WG363162
Chloroform	mg/l	0.0448	0.0440	1.84	21	89.6	L346603-10	WG363162
Chloromethane	mg/l	0.0525	0.0515	2.03	28	105.	L346603-10	WG363162
cis-1,2-Dichloroethene	mg/l	0.0443	0.0433	2.25	22	88.5	L346603-10	WG363162
cis-1,3-Dichloropropene	mg/l	0.0479	0.0467	2.44	21	95.8	L346603-10	WG363162
Dibromomethane	mg/l	0.0500	0.0480	3.99	20	100.	L346603-10	WG363162
Dichlorodifluoromethane	mg/l	0.0540	0.0549	1.66	26	108.	L346603-10	WG363162
Ethylbenzene	mg/l	0.0444	0.0443	0.160	24	88.8	L346603-10	WG363162
Iodomethane	mg/l	0.212	0.210	0.975	27	84.7	L346603-10	WG363162
Methylene Chloride	mg/l	0.0417	0.0413	0.898	21	83.4	L346603-10	WG363162
Styrene	mg/l	0.0475	0.0468	1.47	23	94.9	L346603-10	WG363162
Tetrachloroethene	mg/l	0.0408	0.0410	0.442	24	81.7	L346603-10	WG363162

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Mt. Juliet, TN 37122
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

S&ME Inc. - Raleigh NC
Jerry Paul
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L346603

June 06, 2008

Toluene	mg/l	0.0412	0.0407	1.36	22	81.1	L346603-10	WG363162

		Matrix Spike Duplicate						
Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
trans-1,2-Dichloroethene	mg/l	0.0423	0.0422	0.209	23	84.6	L346603-10	WG363162
trans-1,3-Dichloropropene	mg/l	0.0490	0.0478	2.46	22	98.0	L346603-10	WG363162
trans-1,4-Dichloro-2-butene	mg/l	0.0517	0.0527	1.97	29	103.	L346603-10	WG363162
Trichloroethene	mg/l	0.0401	0.0392	2.31	21	80.2	L346603-10	WG363162
Trichlorofluoromethane	mg/l	0.0475	0.0495	4.10	24	95.1	L346603-10	WG363162
Vinyl acetate	mg/l	0.246	0.230	6.81	26	98.5	L346603-10	WG363162
Vinyl chloride	mg/l	0.0488	0.0498	2.07	26	97.6	L346603-10	WG363162
Xylenes, Total	mg/l	0.132	0.132	0.360	23	88.2	L346603-10	WG363162
Cyanide	mg/l	0.232	0.232	0.00	20	116.	L348376-01	WG364599

Batch number /Run number / Sample number cross reference

WG362463: R373709: L346603-01
WG362585: R373754: L346603-11 12 13 14
WG362532: R374026: L346603-02 03 04 05 06 07 08 09 10 11 12 13 14
WG362561: R374125: L346603-01 02 03 04 05 06 07 08 09 10 11 12 13 14
WG362370: R374126: L346603-02 05
WG362507: R374204: L346603-04 06 07 08 10
WG362348: R374388: L346603-01 02 03 04 05 06 07 08 09 10
WG362813: R374524: L346603-01 02 03 04 05 06 07 08 09 10
WG362800: R374554: L346603-01 07
WG362574: R374555: L346603-02 03 04 05 06 08 09 10 11 12 13 14
WG363147: R374569: L346603-11 12 13 14
WG363162: R374647: L346603-10 15
WG362521: R374807: L346603-01 02 03 04 05 06 07 08 09 10
WG362957: R375105: L346603-09
WG363160: R375124: L346603-01 02 03 04 05 06 07 08 09
WG362533: R375148: L346603-02 04 05 06 07
WG362534: R375149: L346603-09 10 11 12 13 14
WG363113: R375665: L346603-01 02 03 04 05 07 08 10
WG363394: R376064: L346603-08
WG364599: R380587: L346603-06 09

* * Calculations are performed prior to rounding of reported values .

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S&ME Inc. - Raleigh NC
Jerry Paul
3201 Spring Forest Road
Raleigh, NC 27616

Quality Assurance Report
Level II

L346603

June 06, 2008

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

S&ME Inc. - Raleigh NC

3201 Spring Forest Road
Raleigh,NC 27616

Alternate billing information:

Chain of Custody
Page 1 of 4

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Jerry Paul
Email: jpaul@smeinc.com
Project Description: City of Durham LANDFILL (DCF)
City/State Collected: Durham, NC
Phone: (919) 872-2660
FAX: (919) 790-9827
Client Project #: [redacted] 1054-07-469
Lab Project # Quote # SMERLNC 0814075 SMERLNC-NCLF
Collected by (print): J. Paul
Site/Facility ID#:
P.O.#:
Collected by (signature): [signature]
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day.....100%
___ Two Day.....50%
___ Three Day.....25%

Date Results Needed: Standard TAT
Email? ___No X Yes
FAX? X No ___Yes

Acctnum: SMERLNC (lab use only)
Template/Prelogin: T50601/ P243915
Cooler #: 5/5 Y
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	AP1 Metals 500mlHDPE-HNO3	AP2 Metals 500mlHDPE-HNO3	CN 250mlHDPEAmb-NaOH	FLUORIDE 125mlHDPE-NoPres	SULFIDE 500mlHDPE-NaOH+ZnAc	SV8011 40mlClr-NaThio	SV8081/8082 1L-Amb-NoPres	SV8151 1L-Amb-NoPres	Remarks/Contaminant	Sample # (lab only)
MW-9R	Grab	GW		5/19/08	1915	15		X	X		X	X	X	X	(SEE Notes Below)	1346603-01
MW-2		GW			1120	10		X	X		X	X	X	X		02
MW-3B		GW			1640	10		X	X		X	X	X	X	(SEE NOTES BELOW)	03
MW-4R		GW			1520	10		X	X		X	X	X	X		04
MW-5		GW			1000	10		X	X		X	X	X	X		05
MW-6R		GW			1245	10		X	X		X	X	X	X		06
MW-7R		GW			1730	10		X	X		X	X	X	X		07
MW-8		GW			1430	10		X	X		X	X	X	X		08
DUP		GW				10		X	X		X	X	X	X		09

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: * Hold App II Dissolved Metals Until WE RECEIVE TOTAL METALS RESULTS *
* Do Not Run SV8011 or SV 8270 For MW 3B or MW-9R *

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ SwA	Condition: (lab use only)
[signature]	5/20/08	1124	Brent Radley	Temp: 3.6 Bottles Received: 187	COC Seal Intact: ___Y ___N X NA
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)		
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 5/21/08 Time: 07:45	pH Checked: CZ712 NCF: ✓

S&ME Inc. - Raleigh NC

3201 Spring Forest Road
Raleigh,NC 27616

Alternate billing information:

Chain of Custody
Page 3 of 4

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Jerry Paul
Email: jpaul@smeinc.com
Project Description: City of Durham LANDFILL (DLF)
City/State Collected: Durham, NC
Phone: (919) 872-2660
FAX: (919) 790-9827
Client Project #: 1054-07-469
Lab Project # Quote # SMERLNC081407S SMERLNC-NCLF
Collected by (print): J. Paul
Site/Facility ID#:
P.O.#:
Collected by (signature):
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: STAND TAT
Email? ___No X Yes
FAX? X No ___Yes

Acctnum: SMERLNC (lab use only)
Template/Prelogin: T50601/ P243915
Cooler #: 5/5 11
Shipped Via: FedEX Ground

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	SV8151AP2 1L-Amb-NoPres	SV8270AP2 1L-Amb-NoPres	V8260AP1 40mlAmb-HCl	V8260AP2 40mlAmb-HCl	V8260AP2 TB 40mlAmb-HCl-Blk	Dissolved APII METALS		Remarks/Contaminant	Sample # (lab only)
~~P-6~~ MW-9R	Grab	GW		5/19/08	1915	15	X	X		X		X		SEE NOTES BELOW	L346603 01
MW-2		GW			1120	10	X	X		X		X			02
MW-3B		GW			1640	10	X	X		X		X		SEE NOTES BELOW	03
MW-4R		GW			1520	10	X	X		X		X			04
MW-5		GW			1000	10	X	X		X		X			05
MW-6R		GW			1245	10	X	X		X		X			06
MW-7R		GW			1730	10	X	X		X		X			07
MW-8		GW			1430	10	X	X		X		X			08
DUP		GW				10	X	X		X		X			09

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: * HOLD APP II Dissolved metals until we RECEIVE TOTAL METALS RESULTS *
* Do Not Run SV8011 or SV8270 for MW-3B or MW-9R *

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	5/20/08	1144	Brent Bailey
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☑ Sub A
Temp: 3.6c Bottles Received: 187
Date: 5-21-08 Time: 07:45
Condition: (lab use only)
COC Seal Intact: ___ Y ___ N ✓ NA
pH Checked: C2/12
NCF: ✓

S&ME Inc. - Raleigh NC

3201 Spring Forest Road
Raleigh,NC 27616

Alternate billing information:

Report to: Jerry Paul

Email: jpaul@smeinc.com

Project Description: City of Durham LANDFILL (DLF)

City/State Collected: Durham, NC

Phone: (919) 872-2660
FAX: (919) 790-9827

Client Project #: [redacted] 1054-07-469

Lab Project # Quote SMERLNC0814 075 SMERLNC-NCLF

Collected by (print): J. Paul

Site/Facility ID#:

P.O.#:

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: Standard TAT

Email? ___No X Yes
FAX? X No ___Yes

Analysis/Container/Preservative

Chain of Custody
Page 2 of 4

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Acctnum: SMERLNC (lab use only)
Template/Prelogin: T50601/ P243915
Cooler #: 5/5 11
Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	AP1 Metals 500mlHDPE-HNO3	AP2 Metals 500mlHDPE-HNO3	CN 250mlHDPEAmb-NaOH	FLUORIDE 125mlHDPE-NoPres	SULFIDE 500mlHDPE-NaOH+ZnAc	SV8011 40mlClr-NaThio	SV8081/8082 1L-Amb NoPres	SV8151 1L-Amb-NoPres	Remarks/Contaminant	Sample # (lab only)
EQB	Grab	GW		5/19	2025	15		X	X		X	X	X	X		L346603-19 10
S-1		GW			0950	87	X			X		X				20 11
S-2		GW			1220	87	X			X		X				21 12
S-3		GW			1300	87	X			X		X				22 13
S-4		GW			1320	87	X			X		X				23 14
TRIP BLANK		GW		5/19	—	19										24 15

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: * Hold APPII Dissolved metals until we receive total metals results *
* Do Not Run SV8011 or SV8270 for MW-3B or MW-9R *

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☑ Sun A	Condition: (lab use only)
	5/20/08	1124	Brent Bailey		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.6 Bottles Received: 187	COC Seal Intact: ___Y ___N X NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 5-21-08 Time: 07:45	pH Checked: CZ712 NCF: ✓

S&ME Inc. - Raleigh NC

3201 Spring Forest Road
Raleigh,NC 27616

Alternate billing information:

Chain of Custody
Page 4 of 4

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Jerry Paul
Email: jpaul@smeinc.com
Project Description: City of Durham LANDFILL (DLF)
City/State Collected: Durham, NC
Phone: (919) 872-2660
FAX: (919) 790-9827
Client Project #: 1054-07-469
Lab Project # Quote # SMERLNC 0814075 SMERLNC-NCLF
Collected by (print): J. Paul
Site/Facility ID#:
P.O.#:
Collected by (signature): [signature]
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: STAND TAT
Email? ___No X Yes
FAX? X No ___Yes

Acctnum: SMERLNC (lab use only)
Template/Prelogin: T50601/ P243915
Cooler #: 5/5 1/1
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	SV8151AP2 1L-Amb-NoPres	SV8270AP2 1L-Amb-NoPres	V8260AP1 40mlAmb-HCl	V8260AP2 40mlAmb-HCl	V8260AP2 TB 40mlAmb-HCl-Blk	Dissolved AP II metals	Remarks/Contaminant	Sample # (lab only)
EQB	Grab	GW		5/19/08	2025	15	X	X		X		X		L346603-10
S-1		GW			0950	18			X			X		11
S-2		GW			1220	18			X			X		12
S-3		GW			1300	18			X			X		13
S-4		GW			1320	18			X			X		14
TRIP BLANK		GW			—	19					X			15

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: * Hold Dissolved (AP II) metals until we receive total metals results. *
* Do Not Run SV8011 or SV8270 For MW-3B or MW-9R *

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
[signature]	5/20/08	1124	[signature]
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) [signature]

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☑ SELF
Temp: 3.6° Bottles Received: 187
Date: 5/21/08 Time: 07:45
Condition: (lab use only)
COC Seal Intact: ___Y ___N X NA
pH Checked: CC 7/2
NCF: ✓

ENVIRONMENTAL
SCIENCE CORP.

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Est. 1970

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road

Raleigh, NC 27616

Report Summary

Friday May 09, 2008

Report Number: L343638
Samples Received: 05/03/08
Client Project: 1054-07-469

Description: City of Durham 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:

Tom Mellette, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, 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, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

May 09, 2008

ESC Sample # : L343638-01

Date Received : May 03, 2008
Description : City of Durham Landfill

Site ID :

Sample ID : MW-3B

Project # : 1054-07-469

Collected By : Jerry Paul
Collection Date : 05/01/08 14:35

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Fluoride	290	32.	100	ug/l	9056	05/03/08	1	2000
Antimony	U	1.1	5.0	ug/l	6020	05/05/08	5	6
Arsenic	5.0	0.15	1.0	ug/l	6020	05/07/08	1	10
Beryllium	U	0.24	1.0	ug/l	6020	05/07/08	1	1
Cadmium	U	1.2	2.5	ug/l	6020	05/05/08	5	1
Copper	2.6	2.2	5.0	ug/l	6020	05/05/08	5	10
Selenium	3.3	2.2	5.0	ug/l	6020	05/05/08	5	10
Thallium	U	0.45	5.0	ug/l	6020	05/05/08	5	5.5
Zinc	21.	15.	50.	ug/l	6020	05/05/08	5	10
Mercury	U	0.044	0.20	ug/l	7470A	05/04/08	1	.2
Barium	530	1.0	5.0	ug/l	6010B	05/03/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	05/03/08	1	10
Cobalt	6.0	1.1	10.	ug/l	6010B	05/03/08	1	10
Lead	U	12.	25.	ug/l	6010B	05/04/08	5	5
Nickel	U	9.8	20.	ug/l	6010B	05/03/08	1	50
Silver	U	2.5	10.	ug/l	6010B	05/03/08	1	10
Vanadium	11.	2.9	10.	ug/l	6010B	05/03/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	05/06/08	1	100
Acrylonitrile	U	1.7	10.	ug/l	8260B	05/06/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	05/06/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	05/06/08	1	3
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	05/06/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	05/06/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	05/06/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	05/06/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	05/06/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	05/06/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	05/06/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	05/06/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	05/06/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	05/06/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	05/06/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	05/06/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	05/06/08	1	1
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	05/06/08	1	100
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	05/06/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	05/06/08	1	1

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
.
Reported: 05/09/08 11:32 Printed: 05/09/08 11:32

ENVIRONMENTAL
SCIENCE CORP.

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Mt. Juliet, TN 37122
(615) 758-5858
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

May 09, 2008

ESC Sample # : L343638-01

Date Received : May 03, 2008
Description : City of Durham Landfill

Site ID :

Sample ID : MW-3B

Project # : 1054-07-469

Collected By : Jerry Paul
Collection Date : 05/01/08 14:35

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	05/06/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	05/06/08	1	5
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	05/06/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	05/06/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	05/06/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	05/06/08	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	05/06/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	05/06/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	05/06/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	05/06/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	05/06/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	05/06/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	05/06/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	05/06/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	05/06/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	05/06/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	05/06/08	1	1
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	05/06/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	05/06/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	05/06/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	05/06/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	05/06/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	05/06/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	05/06/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	05/06/08	1	4
Surrogate Recovery								
Toluene-d8	98.4			% Rec.	8260B	05/06/08	1	
Dibromofluoromethane	99.3			% Rec.	8260B	05/06/08	1	
4-Bromofluorobenzene	100.			% Rec.	8260B	05/06/08	1	
Ethylene Dibromide	U	0.0057	0.010	ug/l	8011	05/06/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.0063	0.020	ug/l	8011	05/06/08	1	1

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

May 09, 2008

ESC Sample # : L343638-02

Date Received : May 03, 2008
Description : City of Durham Landfill

Site ID :

Sample ID : MW-9R

Project # : 1054-07-469

Collected By : Jerry Paul
Collection Date : 04/30/08 17:10

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Fluoride	41.	32.	100	ug/l	9056	05/03/08	1	2000
Antimony	U	1.1	5.0	ug/l	6020	05/05/08	5	6
Arsenic	U	0.15	1.0	ug/l	6020	05/07/08	1	10
Beryllium	0.50	0.24	1.0	ug/l	6020	05/07/08	1	1
Cadmium	U	1.2	2.5	ug/l	6020	05/05/08	5	1
Copper	U	2.2	5.0	ug/l	6020	05/05/08	5	10
Selenium	U	2.2	5.0	ug/l	6020	05/05/08	5	10
Thallium	U	0.45	5.0	ug/l	6020	05/05/08	5	5.5
Zinc	U	15.	50.	ug/l	6020	05/05/08	5	10
Mercury	U	0.044	0.20	ug/l	7470A	05/04/08	1	.2
Barium	52.	1.0	5.0	ug/l	6010B	05/03/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	05/03/08	1	10
Cobalt	6.1	1.1	10.	ug/l	6010B	05/03/08	1	10
Lead	U	2.4	5.0	ug/l	6010B	05/03/08	1	5
Nickel	U	9.8	20.	ug/l	6010B	05/03/08	1	50
Silver	U	2.5	10.	ug/l	6010B	05/03/08	1	10
Vanadium	4.7	2.9	10.	ug/l	6010B	05/03/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	05/06/08	1	100
Acrylonitrile	U	1.7	10.	ug/l	8260B	05/06/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	05/06/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	05/06/08	1	3
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	05/06/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	05/06/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	05/06/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	05/06/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	05/06/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	05/06/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	05/06/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	05/06/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	05/06/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	05/06/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	05/06/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	05/06/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	05/06/08	1	1
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	05/06/08	1	100
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	05/06/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	05/06/08	1	1

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

May 09, 2008

ESC Sample # : L343638-02

Date Received : May 03, 2008
Description : City of Durham Landfill

Site ID :

Sample ID : MW-9R

Project # : 1054-07-469

Collected By : Jerry Paul
Collection Date : 04/30/08 17:10

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	05/06/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	05/06/08	1	5
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	05/06/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	05/06/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	05/06/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	05/06/08	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	05/06/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	05/06/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	05/06/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	05/06/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	05/06/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	05/06/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	05/06/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	05/06/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	05/06/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	05/06/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	05/06/08	1	1
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	05/06/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	05/06/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	05/06/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	05/06/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	05/06/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	05/06/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	05/06/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	05/06/08	1	4
Surrogate Recovery								
Toluene-d8	98.6			% Rec.	8260B	05/06/08	1	
Dibromofluoromethane	96.6			% Rec.	8260B	05/06/08	1	
4-Bromofluorobenzene	102.			% Rec.	8260B	05/06/08	1	
Ethylene Dibromide	U	0.0057	0.010	ug/l	8011	05/06/08	1	1
1,2-Dibromo-3-Chloropropane	U	0.0063	0.020	ug/l	8011	05/06/08	1	1

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
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Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L343638-01	Cobalt	J
	Lead	O
	Antimony	O
	Cadmium	O
	Copper	JO
	Selenium	JO
	Thallium	O
	Zinc	JO
L343638-02	Cobalt	J
	Vanadium	J
	Antimony	O
	Beryllium	J
	Cadmium	O
	Copper	O
	Selenium	O
	Thallium	O
	Zinc	O
	Fluoride	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
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 Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography 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.

Summary of Remarks For Samples Printed
05/09/08 at 11:32:34

TSR Signing Reports: 690
R5 - Desired TAT

Sample: L343638-01 Account: SMERLNC Received: 05/03/08 09:00 Due Date: 05/09/08 00:00 RPT Date: 05/09/08 11:32
EDD=SWSL NCLF
Sample: L343638-02 Account: SMERLNC Received: 05/03/08 09:00 Due Date: 05/09/08 00:00 RPT Date: 05/09/08 11:32
EDD=SWSL NCLF

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Jerry Paul
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L343638

May 09, 2008

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
Barium	< .005	mg/l	05/03/08 22:29	WG359058
Chromium	< .01	mg/l	05/03/08 22:29	WG359058
Cobalt	< .01	mg/l	05/03/08 22:29	WG359058
Lead	< .005	mg/l	05/03/08 22:29	WG359058
Nickel	< .02	mg/l	05/03/08 22:29	WG359058
Silver	< .01	mg/l	05/03/08 22:29	WG359058
Vanadium	< .01	mg/l	05/03/08 22:29	WG359058
Fluoride	< .1	mg/l	05/03/08 15:10	WG359090
Antimony	< .001	mg/l	05/05/08 21:38	WG359144
Cadmium	< .0005	mg/l	05/05/08 21:38	WG359144
Copper	< .001	mg/l	05/05/08 21:38	WG359144
Selenium	< .001	mg/l	05/05/08 21:38	WG359144
Thallium	< .001	mg/l	05/05/08 21:38	WG359144
Zinc	< .01	mg/l	05/05/08 21:38	WG359144
Mercury	< .0002	mg/l	05/04/08 11:31	WG359145
1,1,1,2-Tetrachloroethane	< .001	mg/l	05/06/08 01:11	WG359362
1,1,1-Trichloroethane	< .001	mg/l	05/06/08 01:11	WG359362
1,1,2,2-Tetrachloroethane	< .001	mg/l	05/06/08 01:11	WG359362
1,1,2-Trichloroethane	< .001	mg/l	05/06/08 01:11	WG359362
1,1-Dichloroethane	< .001	mg/l	05/06/08 01:11	WG359362
1,1-Dichloroethene	< .001	mg/l	05/06/08 01:11	WG359362
1,2,3-Trichloropropane	< .001	mg/l	05/06/08 01:11	WG359362
1,2-Dichlorobenzene	< .001	mg/l	05/06/08 01:11	WG359362
1,2-Dichloroethane	< .001	mg/l	05/06/08 01:11	WG359362
1,2-Dichloropropane	< .001	mg/l	05/06/08 01:11	WG359362
1,4-Dichlorobenzene	< .001	mg/l	05/06/08 01:11	WG359362
2-Butanone (MEK)	< .01	mg/l	05/06/08 01:11	WG359362
2-Hexanone	< .01	mg/l	05/06/08 01:11	WG359362
4-Methyl-2-pentanone (MIBK)	< .01	mg/l	05/06/08 01:11	WG359362
Acetone	< .05	mg/l	05/06/08 01:11	WG359362
Acrylonitrile	< .01	mg/l	05/06/08 01:11	WG359362
Benzene	< .001	mg/l	05/06/08 01:11	WG359362
Bromochloromethane	< .001	mg/l	05/06/08 01:11	WG359362
Bromodichloromethane	< .001	mg/l	05/06/08 01:11	WG359362
Bromoform	< .001	mg/l	05/06/08 01:11	WG359362
Bromomethane	< .005	mg/l	05/06/08 01:11	WG359362
Carbon disulfide	< .001	mg/l	05/06/08 01:11	WG359362
Carbon tetrachloride	< .001	mg/l	05/06/08 01:11	WG359362
Chlorobenzene	< .001	mg/l	05/06/08 01:11	WG359362
Chlorodibromomethane	< .001	mg/l	05/06/08 01:11	WG359362
Chloroethane	< .001	mg/l	05/06/08 01:11	WG359362
Chloroform	< .005	mg/l	05/06/08 01:11	WG359362
Chloromethane	< .001	mg/l	05/06/08 01:11	WG359362
cis-1,2-Dichloroethene	< .001	mg/l	05/06/08 01:11	WG359362
cis-1,3-Dichloropropene	< .001	mg/l	05/06/08 01:11	WG359362
Dibromomethane	< .001	mg/l	05/06/08 01:11	WG359362
Ethylbenzene	< .001	mg/l	05/06/08 01:11	WG359362
Iodomethane	< .01	mg/l	05/06/08 01:11	WG359362
Methylene Chloride	< .005	mg/l	05/06/08 01:11	WG359362
Styrene	< .001	mg/l	05/06/08 01:11	WG359362
Tetrachloroethene	< .001	mg/l	05/06/08 01:11	WG359362
Toluene	< .005	mg/l	05/06/08 01:11	WG359362
trans-1,2-Dichloroethene	< .001	mg/l	05/06/08 01:11	WG359362
trans-1,3-Dichloropropene	< .001	mg/l	05/06/08 01:11	WG359362
trans-1,4-Dichloro-2-butene	< .0025	mg/l	05/06/08 01:11	WG359362
Trichloroethene	< .001	mg/l	05/06/08 01:11	WG359362

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Quality Assurance Report
Level II

L343638

May 09, 2008

Trichlorofluoromethane	< .005	mg/l	05/06/08 01:11	WG359362

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
Vinyl acetate	< .01	mg/l	05/06/08 01:11	WG359362
Vinyl chloride	< .001	mg/l	05/06/08 01:11	WG359362
Xylenes, Total	< .003	mg/l	05/06/08 01:11	WG359362
1,2-Dibromo-3-Chloropropane	< .00002	mg/l	05/06/08 20:30	WG359409
Ethylene Dibromide	< .00001	mg/l	05/06/08 20:30	WG359409
Arsenic	< .001	mg/l	05/07/08 18:45	WG359636
Beryllium	< .001	mg/l	05/07/08 18:45	WG359636

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Barium	mg/l	0.0521	0.0520	0.192	20	L343638-02	WG359058
Chromium	mg/l	0.00	0.00	0.00	20	L343638-02	WG359058
Cobalt	mg/l	0.00	0.00610	NA	20	L343638-02	WG359058
Lead	mg/l	0.00	0.00	0.00	20	L343638-02	WG359058
Nickel	mg/l	0.00	0.00	0.00	20	L343638-02	WG359058
Silver	mg/l	0.00	0.00	0.00	20	L343638-02	WG359058
Vanadium	mg/l	0.00	0.00470	NA	20	L343638-02	WG359058
Fluoride	mg/l	0.521	0.530	1.71	20	L343668-13	WG359090
Fluoride	mg/l	0.119	0.130	8.84	20	L343668-19	WG359090
Antimony	mg/l	0.00	0.00	0.00	20	L343638-01	WG359144
Cadmium	mg/l	0.00	0.00	0.00	20	L343638-01	WG359144
Copper	mg/l	0.00	0.00260	NA	20	L343638-01	WG359144
Selenium	mg/l	0.00	0.00330	NA	20	L343638-01	WG359144
Thallium	mg/l	0.00	0.00	0.00	20	L343638-01	WG359144
Zinc	mg/l	0.00	0.0210	NA	20	L343638-01	WG359144
Mercury	mg/l	0.00	0.00	0.00	20	L343666-06	WG359145
1,2-Dibromo-3-Chloropropane	mg/l	0.00	0.00	0.00	50	L343667-05	WG359409
Ethylene Dibromide	mg/l	0.00	0.00	0.00	50	L343667-05	WG359409
Arsenic	mg/l	0.00	0.00	0.00	20	L344017-02	WG359636
Beryllium	mg/l	0.00	0.00	0.00	20	L344017-02	WG359636

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Barium	mg/l	1	1.01	101.	85-115	WG359058
Chromium	mg/l	1	1.08	108.	85-115	WG359058
Cobalt	mg/l	1	1.08	108.	85-115	WG359058
Lead	mg/l	1	1.06	106.	85-115	WG359058
Nickel	mg/l	1	1.05	105.	85-115	WG359058
Silver	mg/l	1	0.976	97.6	85-115	WG359058
Vanadium	mg/l	1	0.986	98.6	85-115	WG359058
Fluoride	mg/l	8	8.15	102.	90-110	WG359090
Antimony	mg/l	.05	0.0504	101.	85-115	WG359144
Cadmium	mg/l	.05	0.0528	106.	85-115	WG359144
Copper	mg/l	.05	0.0464	92.8	85-115	WG359144
Selenium	mg/l	.05	0.0486	97.2	85-115	WG359144
Thallium	mg/l	.05	0.0529	106.	85-115	WG359144
Zinc	mg/l	.05	0.0504	101.	85-115	WG359144

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SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

S&ME Inc. - Raleigh NC
Jerry Paul
3201 Spring Forest Road
Raleigh, NC 27616

Quality Assurance Report
Level II

L343638

May 09, 2008

Mercury	mg/l	.003	0.00301	100.	85-115	WG359145

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	.05	0.0502	100.	75-134	WG359362
1,1,1-Trichloroethane	mg/l	.05	0.0465	93.0	67-137	WG359362
1,1,2,2-Tetrachloroethane	mg/l	.05	0.0481	96.2	72-128	WG359362
1,1,2-Trichloroethane	mg/l	.05	0.0476	95.1	79-123	WG359362
1,1-Dichloroethane	mg/l	.05	0.0467	93.4	67-133	WG359362
1,1-Dichloroethene	mg/l	.05	0.0495	98.9	60-130	WG359362
1,2,3-Trichloropropane	mg/l	.05	0.0499	99.7	68-130	WG359362
1,2-Dichlorobenzene	mg/l	.05	0.0485	97.1	75-122	WG359362
1,2-Dichloroethane	mg/l	.05	0.0477	95.4	63-137	WG359362
1,2-Dichloropropane	mg/l	.05	0.0504	101.	74-122	WG359362
1,4-Dichlorobenzene	mg/l	.05	0.0477	95.5	70-121	WG359362
2-Butanone (MEK)	mg/l	.25	0.242	96.9	53-132	WG359362
2-Hexanone	mg/l	.25	0.263	105.	56-147	WG359362
4-Methyl-2-pentanone (MIBK)	mg/l	.25	0.249	99.5	60-142	WG359362
Acetone	mg/l	.25	0.271	109.	48-134	WG359362
Acrylonitrile	mg/l	.25	0.289	116.	60-140	WG359362
Benzene	mg/l	.05	0.0452	90.4	67-126	WG359362
Bromochloromethane	mg/l	.05	0.0473	94.6	75-128	WG359362
Bromodichloromethane	mg/l	.05	0.0493	98.6	68-133	WG359362
Bromoform	mg/l	.05	0.0461	92.1	60-139	WG359362
Bromomethane	mg/l	.05	0.0607	121.	45-175	WG359362
Carbon disulfide	mg/l	.05	0.0436	87.3	41-148	WG359362
Carbon tetrachloride	mg/l	.05	0.0524	105.	64-141	WG359362
Chlorobenzene	mg/l	.05	0.0480	95.9	77-125	WG359362
Chlorodibromomethane	mg/l	.05	0.0517	103.	73-138	WG359362
Chloroethane	mg/l	.05	0.0413	82.5	49-155	WG359362
Chloroform	mg/l	.05	0.0477	95.5	66-126	WG359362
Chloromethane	mg/l	.05	0.0473	94.6	45-152	WG359362
cis-1,2-Dichloroethene	mg/l	.05	0.0463	92.7	72-128	WG359362
cis-1,3-Dichloropropene	mg/l	.05	0.0431	86.3	73-131	WG359362
Dibromomethane	mg/l	.05	0.0490	98.0	73-125	WG359362
Ethylbenzene	mg/l	.05	0.0491	98.2	76-129	WG359362
Iodomethane	mg/l	.25	0.278	111.	61-148	WG359362
Methylene Chloride	mg/l	.05	0.0496	99.2	64-125	WG359362
Styrene	mg/l	.05	0.0484	96.7	78-130	WG359362
Tetrachloroethene	mg/l	.05	0.0507	101.	67-135	WG359362
Toluene	mg/l	.05	0.0457	91.5	72-122	WG359362
trans-1,2-Dichloroethene	mg/l	.05	0.0450	90.0	67-129	WG359362
trans-1,3-Dichloropropene	mg/l	.05	0.0440	87.9	66-137	WG359362
trans-1,4-Dichloro-2-butene	mg/l	.05	0.0485	96.9	48-139	WG359362
Trichloroethene	mg/l	.05	0.0486	97.3	74-126	WG359362
Trichlorofluoromethane	mg/l	.05	0.0442	88.4	54-156	WG359362
Vinyl acetate	mg/l	.25	0.248	99.1	34-178	WG359362
Vinyl chloride	mg/l	.05	0.0444	88.7	55-153	WG359362
Xylenes, Total	mg/l	.15	0.146	97.2	75-128	WG359362
1,2-Dibromo-3-Chloropropane	mg/l	.00025	0.000250	100.	70-130	WG359409
Ethylene Dibromide	mg/l	.00025	0.000258	103.	70-130	WG359409
Arsenic	mg/l	.0567	0.0557	98.2	85-115	WG359636
Beryllium	mg/l	.0567	0.0532	93.8	85-115	WG359636

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
Fluoride	mg/l	8.17	8.15	0.245	20	102	WG359090
1,1,1,2-Tetrachloroethane	mg/l	0.0489	0.0502	2.65	20	98	WG359362
1,1,1-Trichloroethane	mg/l	0.0446	0.0465	4.25	20	89	WG359362

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1,1,2,2-Tetrachloroethane	mg/l	0.0468	0.0481	2.78	20	94	WG359362

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
1,1,2-Trichloroethane	mg/l	0.0470	0.0476	1.29	20	94	WG359362
1,1-Dichloroethane	mg/l	0.0451	0.0467	3.50	20	90	WG359362
1,1-Dichloroethene	mg/l	0.0483	0.0495	2.39	20	97	WG359362
1,2,3-Trichloropropane	mg/l	0.0480	0.0499	3.80	20	96	WG359362
1,2-Dichlorobenzene	mg/l	0.0476	0.0485	1.88	20	95	WG359362
1,2-Dichloroethane	mg/l	0.0461	0.0477	3.48	20	92	WG359362
1,2-Dichloropropane	mg/l	0.0479	0.0504	4.99	20	96	WG359362
1,4-Dichlorobenzene	mg/l	0.0474	0.0477	0.796	20	95	WG359362
2-Butanone (MEK)	mg/l	0.234	0.242	3.69	20	93	WG359362
2-Hexanone	mg/l	0.253	0.263	4.04	20	101	WG359362
4-Methyl-2-pentanone (MIBK)	mg/l	0.240	0.249	3.60	20	96	WG359362
Acetone	mg/l	0.258	0.271	4.99	20	103	WG359362
Acrylonitrile	mg/l	0.283	0.289	2.03	20	113	WG359362
Benzene	mg/l	0.0440	0.0452	2.67	20	88	WG359362
Bromochloromethane	mg/l	0.0462	0.0473	2.42	20	92	WG359362
Bromodichloromethane	mg/l	0.0485	0.0493	1.66	20	97	WG359362
Bromoform	mg/l	0.0472	0.0461	2.37	20	94	WG359362
Bromomethane	mg/l	0.0586	0.0607	3.46	20	117	WG359362
Carbon disulfide	mg/l	0.0421	0.0436	3.49	20	84	WG359362
Carbon tetrachloride	mg/l	0.0510	0.0524	2.73	20	102	WG359362
Chlorobenzene	mg/l	0.0464	0.0480	3.34	20	93	WG359362
Chlorodibromomethane	mg/l	0.0516	0.0517	0.226	20	103	WG359362
Chloroethane	mg/l	0.0381	0.0413	7.85	20	76	WG359362
Chloroform	mg/l	0.0466	0.0477	2.37	20	93	WG359362
Chloromethane	mg/l	0.0452	0.0473	4.65	20	90	WG359362
cis-1,2-Dichloroethene	mg/l	0.0449	0.0463	3.10	20	90	WG359362
cis-1,3-Dichloropropene	mg/l	0.0429	0.0431	0.585	20	86	WG359362
Dibromomethane	mg/l	0.0481	0.0490	1.95	20	96	WG359362
Ethylbenzene	mg/l	0.0469	0.0491	4.67	20	94	WG359362
Iodomethane	mg/l	0.272	0.278	2.15	20	109	WG359362
Methylene Chloride	mg/l	0.0485	0.0496	2.32	20	97	WG359362
Styrene	mg/l	0.0469	0.0484	3.04	20	94	WG359362
Tetrachloroethene	mg/l	0.0488	0.0507	3.76	20	98	WG359362
Toluene	mg/l	0.0443	0.0457	3.25	20	89	WG359362
trans-1,2-Dichloroethene	mg/l	0.0407	0.0450	10.2	20	81	WG359362
trans-1,3-Dichloropropene	mg/l	0.0438	0.0440	0.424	20	88	WG359362
trans-1,4-Dichloro-2-butene	mg/l	0.0474	0.0485	2.31	20	95	WG359362
Trichloroethene	mg/l	0.0470	0.0486	3.48	20	94	WG359362
Trichlorofluoromethane	mg/l	0.0440	0.0442	0.437	20	88	WG359362
Vinyl acetate	mg/l	0.242	0.248	2.40	26	97	WG359362
Vinyl chloride	mg/l	0.0473	0.0444	6.38	20	95	WG359362
Xylenes, Total	mg/l	0.140	0.146	4.00	20	93	WG359362
1,2-Dibromo-3-Chloropropane	mg/l	0.0002	0.0002	1.95	40	102	WG359409
Ethylene Dibromide	mg/l	0.0002	0.0002	1.25	40	104	WG359409

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Barium	mg/l	1.07	0.0520	1	102.	75-125	L343638-02	WG359058
Chromium	mg/l	1.07	0.00	1	107.	75-125	L343638-02	WG359058
Cobalt	mg/l	1.06	0.0061	1	105.	75-125	L343638-02	WG359058
Lead	mg/l	1.04	0.00	1	104.	75-125	L343638-02	WG359058
Nickel	mg/l	1.03	0.00	1	103.	75-125	L343638-02	WG359058
Silver	mg/l	0.974	0.00	1	97.4	75-125	L343638-02	WG359058
Vanadium	mg/l	0.981	0.0047	1	97.6	75-125	L343638-02	WG359058
Fluoride	mg/l	5.07	0.110	5	99.2	80-120	L343668-05	WG359090

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Antimony	mg/l	0.0534	0.00	.01	107.	75-125	L343638-01	WG359144

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Cadmium	mg/l	0.0545	0.00	.01	109.	75-125	L343638-01	WG359144
Copper	mg/l	0.0434	0.0026	.01	81.6	75-125	L343638-01	WG359144
Selenium	mg/l	0.0523	0.0033	.01	98.0	75-125	L343638-01	WG359144
Thallium	mg/l	0.0493	0.00	.01	98.6	75-125	L343638-01	WG359144
Zinc	mg/l	0.0668	0.0210	.01	91.6	75-125	L343638-01	WG359144
Mercury	mg/l	0.0029	0.00	.003	98.0	70-130	L343666-06	WG359145
1,1,1,2-Tetrachloroethane	mg/l	4.53	0.00	.05	90.5	45-152	L343191-01	WG359362
1,1,1-Trichloroethane	mg/l	4.19	0.00	.05	83.8	31-161	L343191-01	WG359362
1,1,2,2-Tetrachloroethane	mg/l	4.28	0.00	.05	85.7	49-149	L343191-01	WG359362
1,1,2-Trichloroethane	mg/l	4.33	0.00	.05	86.7	46-145	L343191-01	WG359362
1,1-Dichloroethane	mg/l	4.21	0.00	.05	84.2	30-159	L343191-01	WG359362
1,1-Dichloroethene	mg/l	4.46	0.00	.05	89.1	10-162	L343191-01	WG359362
1,2,3-Trichloropropane	mg/l	4.35	0.00	.05	86.9	48-148	L343191-01	WG359362
1,2-Dichlorobenzene	mg/l	4.41	0.00	.05	88.2	40-139	L343191-01	WG359362
1,2-Dichloroethane	mg/l	4.26	0.00	.05	85.2	29-167	L343191-01	WG359362
1,2-Dichloropropane	mg/l	4.43	0.00	.05	88.6	39-148	L343191-01	WG359362
1,4-Dichlorobenzene	mg/l	4.32	0.00	.05	86.4	32-136	L343191-01	WG359362
2-Butanone (MEK)	mg/l	21.4	0.00	.25	85.7	32-151	L343191-01	WG359362
2-Hexanone	mg/l	22.7	0.00	.25	90.9	41-155	L343191-01	WG359362
4-Methyl-2-pentanone (MIBK)	mg/l	21.5	0.00	.25	86.0	40-160	L343191-01	WG359362
Acetone	mg/l	23.5	0.00	.25	94.1	25-157	L343191-01	WG359362
Acrylonitrile	mg/l	24.9	0.00	.25	99.5	37-162	L343191-01	WG359362
Benzene	mg/l	10.1	7.10	.05	59.5	16-158	L343191-01	WG359362
Bromochloromethane	mg/l	4.32	0.00	.05	86.4	36-154	L343191-01	WG359362
Bromodichloromethane	mg/l	4.40	0.00	.05	87.9	45-147	L343191-01	WG359362
Bromoform	mg/l	4.00	0.00	.05	79.9	38-152	L343191-01	WG359362
Bromomethane	mg/l	5.30	0.00	.05	106.	0-191	L343191-01	WG359362
Carbon disulfide	mg/l	3.65	0.00	.05	72.9	10-166	L343191-01	WG359362
Carbon tetrachloride	mg/l	4.83	0.00	.05	96.6	22-168	L343191-01	WG359362
Chlorobenzene	mg/l	4.37	0.00	.05	87.3	33-148	L343191-01	WG359362
Chlorodibromomethane	mg/l	4.56	0.00	.05	91.2	48-151	L343191-01	WG359362
Chloroethane	mg/l	3.59	0.00	.05	71.9	4-176	L343191-01	WG359362
Chloroform	mg/l	4.31	0.00	.05	86.3	37-147	L343191-01	WG359362
Chloromethane	mg/l	4.12	0.00	.05	82.4	10-174	L343191-01	WG359362
cis-1,2-Dichloroethene	mg/l	4.23	0.00	.05	84.6	29-156	L343191-01	WG359362
cis-1,3-Dichloropropene	mg/l	3.90	0.00	.05	78.0	35-148	L343191-01	WG359362
Dibromomethane	mg/l	4.31	0.00	.05	86.2	36-152	L343191-01	WG359362
Ethylbenzene	mg/l	4.68	0.300	.05	87.7	29-150	L343191-01	WG359362
Iodomethane	mg/l	24.3	0.00	.25	97.1	9-169	L343191-01	WG359362
Methylene Chloride	mg/l	4.51	0.00	.05	90.1	23-151	L343191-01	WG359362
Styrene	mg/l	4.38	0.00	.05	87.7	38-149	L343191-01	WG359362
Tetrachloroethene	mg/l	4.50	0.00	.05	89.9	13-157	L343191-01	WG359362
Toluene	mg/l	7.76	4.40	.05	67.1	22-152	L343191-01	WG359362
trans-1,2-Dichloroethene	mg/l	3.97	0.00	.05	79.3	11-160	L343191-01	WG359362
trans-1,3-Dichloropropene	mg/l	3.98	0.00	.05	79.7	33-153	L343191-01	WG359362
trans-1,4-Dichloro-2-butene	mg/l	4.32	0.00	.05	86.5	19-151	L343191-01	WG359362
Trichloroethene	mg/l	4.36	0.00	.05	87.2	18-163	L343191-01	WG359362
Trichlorofluoromethane	mg/l	4.09	0.00	.05	81.7	10-177	L343191-01	WG359362
Vinyl acetate	mg/l	21.8	0.00	.25	87.2	0-196	L343191-01	WG359362
Vinyl chloride	mg/l	4.23	0.00	.05	84.7	0-179	L343191-01	WG359362
Xylenes, Total	mg/l	18.3	5.80	.15	83.1	27-151	L343191-01	WG359362
1,2-Dibromo-3-Chloropropane	mg/l	0.0001	0.00	.0001	121.	60-140	L343462-03	WG359409
Ethylene Dibromide	mg/l	0.0000	0.00	.0001	74.7	60-140	L343462-03	WG359409
Arsenic	mg/l	0.0574	0.00	.0567	101.	75-125	L344017-02	WG359636
Beryllium	mg/l	0.0555	0.00	.0567	97.9	75-125	L344017-02	WG359636

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Analyte	Units	Matrix Spike Duplicate MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
Barium	mg/l	1.08	1.07	0.930	20	103.	L343638-02	WG359058
Chromium	mg/l	1.06	1.07	0.939	20	106.	L343638-02	WG359058
Cobalt	mg/l	1.06	1.06	0.00	20	105.	L343638-02	WG359058
Lead	mg/l	1.04	1.04	0.00	20	104.	L343638-02	WG359058
Nickel	mg/l	1.03	1.03	0.00	20	103.	L343638-02	WG359058
Silver	mg/l	0.983	0.974	0.920	20	98.3	L343638-02	WG359058
Vanadium	mg/l	0.988	0.981	0.711	20	98.3	L343638-02	WG359058
Fluoride	mg/l	5.36	5.07	5.56	20	105.	L343668-05	WG359090
Antimony	mg/l	0.0543	0.0534	1.67	20	109.	L343638-01	WG359144
Cadmium	mg/l	0.0546	0.0545	0.183	20	109.	L343638-01	WG359144
Copper	mg/l	0.0430	0.0434	0.926	20	80.8	L343638-01	WG359144
Selenium	mg/l	0.0526	0.0523	0.572	20	98.6	L343638-01	WG359144
Thallium	mg/l	0.0485	0.0493	1.64	20	97.0	L343638-01	WG359144
Zinc	mg/l	0.0676	0.0668	1.19	20	93.2	L343638-01	WG359144
Mercury	mg/l	0.0029	0.0029	0.678	20	98.7	L343666-06	WG359145
1,1,1,2-Tetrachloroethane	mg/l	4.55	4.53	0.498	21	91.0	L343191-01	WG359362
1,1,1-Trichloroethane	mg/l	4.04	4.19	3.71	23	80.8	L343191-01	WG359362
1,1,2,2-Tetrachloroethane	mg/l	4.44	4.28	3.62	22	88.8	L343191-01	WG359362
1,1,2-Trichloroethane	mg/l	4.34	4.33	0.128	20	86.8	L343191-01	WG359362
1,1-Dichloroethane	mg/l	4.09	4.21	2.86	21	81.8	L343191-01	WG359362
1,1-Dichloroethene	mg/l	4.23	4.46	5.14	23	84.7	L343191-01	WG359362
1,2,3-Trichloropropane	mg/l	4.61	4.35	5.89	23	92.2	L343191-01	WG359362
1,2-Dichlorobenzene	mg/l	4.35	4.41	1.43	23	86.9	L343191-01	WG359362
1,2-Dichloroethane	mg/l	4.16	4.26	2.35	21	83.2	L343191-01	WG359362
1,2-Dichloropropane	mg/l	4.32	4.43	2.63	20	86.3	L343191-01	WG359362
1,4-Dichlorobenzene	mg/l	4.27	4.32	1.01	23	85.5	L343191-01	WG359362
2-Butanone (MEK)	mg/l	22.2	21.4	3.51	26	88.8	L343191-01	WG359362
2-Hexanone	mg/l	23.9	22.7	4.93	28	95.5	L343191-01	WG359362
4-Methyl-2-pentanone (MIBK)	mg/l	22.4	21.5	3.95	28	89.5	L343191-01	WG359362
Acetone	mg/l	24.1	23.5	2.58	26	96.5	L343191-01	WG359362
Acrylonitrile	mg/l	25.6	24.9	2.86	24	102.	L343191-01	WG359362
Benzene	mg/l	9.78	10.1	2.91	21	53.7	L343191-01	WG359362
Bromochloromethane	mg/l	4.20	4.32	2.74	21	84.0	L343191-01	WG359362
Bromodichloromethane	mg/l	4.30	4.40	2.20	20	86.0	L343191-01	WG359362
Bromoform	mg/l	4.10	4.00	2.44	20	81.9	L343191-01	WG359362
Bromomethane	mg/l	5.11	5.30	3.60	35	102.	L343191-01	WG359362
Carbon disulfide	mg/l	3.46	3.65	5.27	25	69.2	L343191-01	WG359362
Carbon tetrachloride	mg/l	4.59	4.83	5.11	24	91.8	L343191-01	WG359362
Chlorobenzene	mg/l	4.28	4.37	1.94	22	85.7	L343191-01	WG359362
Chlorodibromomethane	mg/l	4.56	4.56	0.127	21	91.1	L343191-01	WG359362
Chloroethane	mg/l	3.47	3.59	3.38	27	69.5	L343191-01	WG359362
Chloroform	mg/l	4.22	4.31	2.09	21	84.5	L343191-01	WG359362
Chloromethane	mg/l	3.89	4.12	5.75	28	77.8	L343191-01	WG359362
cis-1,2-Dichloroethene	mg/l	4.10	4.23	3.19	22	82.0	L343191-01	WG359362
cis-1,3-Dichloropropene	mg/l	3.88	3.90	0.443	21	77.6	L343191-01	WG359362
Dibromomethane	mg/l	4.29	4.31	0.341	20	85.9	L343191-01	WG359362
Ethylbenzene	mg/l	4.60	4.68	1.71	24	86.1	L343191-01	WG359362
Iodomethane	mg/l	23.1	24.3	4.92	27	92.4	L343191-01	WG359362
Methylene Chloride	mg/l	4.36	4.51	3.34	21	87.2	L343191-01	WG359362
Styrene	mg/l	4.30	4.38	1.89	23	86.0	L343191-01	WG359362
Tetrachloroethene	mg/l	4.40	4.50	2.20	24	88.0	L343191-01	WG359362
Toluene	mg/l	7.65	7.76	1.43	22	64.9	L343191-01	WG359362
trans-1,2-Dichloroethene	mg/l	3.77	3.97	5.14	23	75.4	L343191-01	WG359362
trans-1,3-Dichloropropene	mg/l	4.00	3.98	0.438	22	80.0	L343191-01	WG359362
trans-1,4-Dichloro-2-butene	mg/l	4.44	4.32	2.72	29	88.9	L343191-01	WG359362
Trichloroethene	mg/l	4.22	4.36	3.34	21	84.3	L343191-01	WG359362

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S&ME Inc. - Raleigh NC
Jerry Paul
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L343638

May 09, 2008

Trichlorofluoromethane	mg/l	3.87	4.09	5.53	24	77.3	L343191-01	WG359362

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
Vinyl acetate	mg/l	20.3	21.8	7.35	26	81.1	L343191-01	WG359362
Vinyl chloride	mg/l	4.01	4.23	5.57	26	80.1	L343191-01	WG359362
Xylenes, Total	mg/l	17.8	18.3	2.34	23	80.3	L343191-01	WG359362
Arsenic	mg/l	0.0581	0.0574	1.21	20	102.	L344017-02	WG359636
Beryllium	mg/l	0.0549	0.0555	1.09	20	96.8	L344017-02	WG359636

Batch number /Run number / Sample number cross reference

WG359145: R367347: L343638-01 02
WG359090: R367627: L343638-01 02
WG359362: R367633: L343638-01 02
WG359058: R367711: L343638-01 02
WG359144: R367924: L343638-01 02
WG359409: R368266: L343638-01 02
WG359636: R368528: L343638-01 02

* * Calculations are performed prior to rounding of reported values .

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Quality Assurance Report
Level II

L343638

May 09, 2008

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Company Name/Address

S & ME
3201 Spring Forest Road
Raleigh, North Carolina 27604

Alternate Billing

Report to: J Paul
E-mail to: JPaul@SmeINC.com

Project Description: **City of Durham Landfill**
City/State: Durham, NC

PHONE: 919 872 2660 FAX: 790-9827
Client Project No.: 1054-07-469
Lab Project #

Collected by: Jerry Paul
Site/Facility ID#
P.O.#

Collected by(signature):
Packed on Ice N___ Y X

Rush? (Lab MUST be Notified)
_____Same Day.....200%
_____Next Day.....100%
_____Two Day.....50%

Date Results Needed: STANDARD TAT
Email? ___No X Yes
FAX? X No ___Yes

Analysis/Container/Preservative

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

CoCode: SMERLNC-NCLF
EDD
Template/Prelogin
Shipped Via: **Raleigh Service Center** /

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No of Cntrs	API METALS TOTAL HNO3	FLUORIDE unpres	SV8011 40ml c/R – Na Thio	V8260 API 40ml HCL	NC APP II SVOCs unpres				Remarks/contaminant	Sample # (lab only)
MW-3B	G	GW	–	5/1/08	1435	9	1	1	3	3	1					L3436X38-01
MW-9R	G	GW	–	4/30/08	1710	9	1	1	3	3	1					JH 02

*Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other_____

pH_____ Temp_____

Remarks: **SMERLNC-NCLF EDD**

Flow_____

Relinquisher by:(Signature	Date:	Time:	Received by:(Signature)	Samples returned via: FedEx__ UPS__Other__	Condition (lab use only)
	5/2/08	1130		SWA	
Relinquisher by:(Signature	Date:	Time:	Received by: (Signature)	Temp: 3.0 / Bottles Received: 18 + 1 RB	
Relinquisher by:(Signature	Date:	Time:	Received for lab by:(Signature)	Date: 5.3.08 / Time: 0900	pH Checked: / NCF: ✓

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Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road

Raleigh, NC 27616

Report Summary

Monday May 19, 2008

Report Number: L344412
Samples Received: 05/08/08
Client Project: 1054-07-469

Description: City of Durham 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:

Tom Mellette, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, 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, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

May 19, 2008

ESC Sample # : L344412-01

Date Received : May 08, 2008
Description : City of Durham Landfill

Site ID :

Sample ID : MW-3B

Project # : 1054-07-469

Collected By : Jerry Paul
Collection Date : 05/06/08 12:55

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Base/Neutral Extractables								
Acenaphthene	U	1.8	10.	ug/l	8270C	05/09/08	1	10
Acenaphthylene	U	1.9	10.	ug/l	8270C	05/09/08	1	10
Anthracene	U	1.1	10.	ug/l	8270C	05/09/08	1	10
Benzo(a)anthracene	U	0.70	10.	ug/l	8270C	05/09/08	1	10
Benzo(b)fluoranthene	U	0.77	10.	ug/l	8270C	05/09/08	1	10
Benzo(k)fluoranthene	U	0.90	10.	ug/l	8270C	05/09/08	1	10
Benzo(g,h,i)perylene	U	0.65	10.	ug/l	8270C	05/09/08	1	10
Benzo(a)pyrene	U	0.65	10.	ug/l	8270C	05/09/08	1	10
Benzyl alcohol	U	1.4	10.	ug/l	8270C	05/09/08	1	20
Bis(2-chlorethoxy)methane	U	2.3	10.	ug/l	8270C	05/09/08	1	10
Bis(2-chloroethyl)ether	U	1.9	10.	ug/l	8270C	05/09/08	1	10
4-Bromophenyl-phenylether	U	1.3	10.	ug/l	8270C	05/09/08	1	10
4-Chloroaniline	U	2.6	10.	ug/l	8270C	05/09/08	1	20
2-Chloronaphthalene	U	1.7	10.	ug/l	8270C	05/09/08	1	10
4-Chlorophenyl-phenylether	U	1.8	10.	ug/l	8270C	05/09/08	1	10
Chrysene	U	0.80	10.	ug/l	8270C	05/09/08	1	10
Dibenz(a,h)anthracene	U	0.70	10.	ug/l	8270C	05/09/08	1	10
Dibenzofuran	U	1.5	10.	ug/l	8270C	05/09/08	1	10
3,3-Dichlorobenzidine	U	0.79	10.	ug/l	8270C	05/09/08	1	20
2,4-Dinitrotoluene	U	1.1	10.	ug/l	8270C	05/09/08	1	10
2,6-Dinitrotoluene	U	1.4	10.	ug/l	8270C	05/09/08	1	10
Fluoranthene	U	1.2	10.	ug/l	8270C	05/09/08	1	10
Fluorene	U	1.5	10.	ug/l	8270C	05/09/08	1	10
Hexachlorobenzene	U	1.2	10.	ug/l	8270C	05/09/08	1	10
Hexachloro-1,3-butadiene	U	2.4	10.	ug/l	8270C	05/09/08	1	10
Hexachlorocyclopentadiene	U	1.6	10.	ug/l	8270C	05/09/08	1	10
Hexachloroethane	U	1.8	10.	ug/l	8270C	05/09/08	1	10
Indeno(1,2,3-cd)pyrene	U	0.72	10.	ug/l	8270C	05/09/08	1	10
Isophorone	U	2.8	10.	ug/l	8270C	05/09/08	1	10
2-Methylnaphthalene	U	2.0	10.	ug/l	8270C	05/09/08	1	10
Naphthalene	U	2.1	10.	ug/l	8270C	05/09/08	1	10
2-Nitroaniline	U	1.5	10.	ug/l	8270C	05/09/08	1	50
3-Nitroaniline	U	1.2	10.	ug/l	8270C	05/09/08	1	50
4-Nitroaniline	U	1.6	10.	ug/l	8270C	05/09/08	1	20
Nitrobenzene	U	2.1	10.	ug/l	8270C	05/09/08	1	10
n-Nitrosodiphenylamine	U	1.7	10.	ug/l	8270C	05/09/08	1	10
n-Nitrosodi-n-propylamine	U	2.4	10.	ug/l	8270C	05/09/08	1	10
Phenanthrene	U	1.1	10.	ug/l	8270C	05/09/08	1	10
Benzylbutyl phthalate	U	1.0	10.	ug/l	8270C	05/09/08	1	10
Bis(2-ethylhexyl)phthalate	U	1.3	10.	ug/l	8270C	05/09/08	1	15
Di-n-butyl phthalate	U	1.1	10.	ug/l	8270C	05/09/08	1	10

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
Note:
The reported analytical results relate only to the sample submitted.
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

May 19, 2008

ESC Sample # : L344412-01

Date Received : May 08, 2008
Description : City of Durham Landfill

Site ID :

Sample ID : MW-3B

Project # : 1054-07-469

Collected By : Jerry Paul
Collection Date : 05/06/08 12:55

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Diethyl phthalate	U	1.1	10.	ug/l	8270C	05/09/08	1	10
Dimethyl phthalate	U	1.3	10.	ug/l	8270C	05/09/08	1	10
Di-n-octyl phthalate	U	0.94	10.	ug/l	8270C	05/09/08	1	10
Pyrene	U	0.77	10.	ug/l	8270C	05/09/08	1	10
1,2,4-Trichlorobenzene	U	2.0	10.	ug/l	8270C	05/09/08	1	10
Acid Extractables								
4-Chloro-3-methylphenol	U	1.8	10.	ug/l	8270C	05/09/08	1	20
2-Chlorophenol	U	1.3	10.	ug/l	8270C	05/09/08	1	10
2-Methylphenol	U	1.3	10.	ug/l	8270C	05/09/08	1	10
3&4-methyl phenol	U	1.1	10.	ug/l	8270C	05/09/08	1	10
2,4-Dichlorophenol	U	2.0	10.	ug/l	8270C	05/09/08	1	50
2,4-Dimethylphenol	U	2.1	10.	ug/l	8270C	05/09/08	1	10
4,6-Dinitro-2-methylphenol	U	2.2	10.	ug/l	8270C	05/09/08	1	50
2,4-Dinitrophenol	U	1.2	10.	ug/l	8270C	05/09/08	1	50
2-Nitrophenol	U	2.1	10.	ug/l	8270C	05/09/08	1	10
4-Nitrophenol	U	0.76	10.	ug/l	8270C	05/09/08	1	50
Pentachlorophenol	U	2.4	10.	ug/l	8270C	05/09/08	1	25
Phenol	U	0.59	10.	ug/l	8270C	05/09/08	1	10
2,4,5-Trichlorophenol	U	1.7	10.	ug/l	8270C	05/09/08	1	10
2,4,6-Trichlorophenol	U	2.0	10.	ug/l	8270C	05/09/08	1	10
Additional Semi-Volatiles								
Acetophenone	U	3.3	10.	ug/l	8270C	05/09/08	1	10
2-Acetylaminofluorene	U	3.3	10.	ug/l	8270C	05/17/08	1	20
4-Aminobiphenyl	U	3.3	10.	ug/l	8270C	05/17/08	1	15
Chlorobenzilate	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Diallate	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Ethyl methanesulfonate	U	3.3	10.	ug/l	8270C	05/17/08	1	20
Famphur	U	3.3	10.	ug/l	8270C	05/17/08	1	20
Hexachloropropene	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Isodrin	U	3.3	10.	ug/l	8270C	05/17/08	1	20
Isosafrole	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Kepone	U	3.3	10.	ug/l	8270C	05/17/08	1	20
Methapyrilene	U	3.3	10.	ug/l	8270C	05/17/08	1	100
3-Methylcholanthrene	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Methyl methanesulfonate	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Methyl parathion	U	3.3	10.	ug/l	8270C	05/17/08	1	10
1,4-Naphthoquinone	U	3.3	10.	ug/l	8270C	05/17/08	1	10
1-Naphthylamine	U	3.3	10.	ug/l	8270C	05/17/08	1	10
2-Naphthylamine	U	3.3	10.	ug/l	8270C	05/17/08	1	10
n-Nitrosodi-n-butylamine	U	3.3	10.	ug/l	8270C	05/17/08	1	10
n-Nitrosodiethylamine	U	3.3	10.	ug/l	8270C	05/17/08	1	20
n-Nitrosodimethylamine	U	1.3	10.	ug/l	8270C	05/09/08	1	10

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

May 19, 2008

ESC Sample # : L344412-01

Date Received : May 08, 2008
Description : City of Durham Landfill

Site ID :

Sample ID : MW-3B

Project # : 1054-07-469

Collected By : Jerry Paul
Collection Date : 05/06/08 12:55

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
n-Nitrosomethylethylamine	U	3.3	10.	ug/l	8270C	05/17/08	1	10
n-Nitrosopiperidine	U	3.3	10.	ug/l	8270C	05/17/08	1	20
n-Nitrosopyrrolidine	U	3.3	10.	ug/l	8270C	05/17/08	1	10
5-Nitro-o-toluidine	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Parathion	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Pentachlorobenzene	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Pentachloronitrobenzene	U	3.3	10.	ug/l	8270C	05/17/08	1	20
Phenacetin	U	3.3	10.	ug/l	8270C	05/17/08	1	20
Phorate	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Pronamide	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Dimethoate	U	3.3	10.	ug/l	8270C	05/17/08	1	20
P-(Dimethylamino) Azobenzene	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Dimethylbenz (A) Anthracene	U	3.3	10.	ug/l	8270C	05/17/08	1	10
3,3-Dimethylbenzidine	U	3.3	10.	ug/l	8270C	05/17/08	1	10
1,3-Dinitrobenzene	U	3.3	10.	ug/l	8270C	05/17/08	1	20
Diphenylamine	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Disulfoton	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Safrole	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Thionazin	U	3.3	10.	ug/l	8270C	05/17/08	1	20
o-Toluidine	U	3.3	10.	ug/l	8270C	05/17/08	1	10
O,O,O-Triethyl phosphorothioate	U	3.3	10.	ug/l	8270C	05/17/08	1	10
sym-Trinitrobenzene	U	3.3	10.	ug/l	8270C	05/17/08	1	10
1,2,4,5-Tetrachlorobenzene	U	3.3	10.	ug/l	8270C	05/09/08	1	10
2,6-Dichlorophenol	U	3.3	10.	ug/l	8270C	05/17/08	1	10
2,3,4,6-Tetrachlorophenol	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Surrogate Recovery								
Nitrobenzene-d5	63.7			% Rec.	8270C	05/09/08	1	
2-Fluorobiphenyl	84.7			% Rec.	8270C	05/09/08	1	
p-Terphenyl-d14	101.			% Rec.	8270C	05/09/08	1	
Phenol-d5	39.1			% Rec.	8270C	05/09/08	1	
2-Fluorophenol	40.2			% Rec.	8270C	05/09/08	1	
2,4,6-Tribromophenol	93.8			% Rec.	8270C	05/09/08	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

May 19, 2008

ESC Sample # : L344412-02

Date Received : May 08, 2008
Description : City of Durham Landfill

Site ID :

Sample ID : MW-9R

Project # : 1054-07-469

Collected By : Jerry Paul
Collection Date : 05/06/08 13:35

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Base/Neutral Extractables								
Acenaphthene	U	1.8	10.	ug/l	8270C	05/09/08	1	10
Acenaphthylene	U	1.9	10.	ug/l	8270C	05/09/08	1	10
Anthracene	U	1.1	10.	ug/l	8270C	05/09/08	1	10
Benzo(a)anthracene	U	0.70	10.	ug/l	8270C	05/09/08	1	10
Benzo(b)fluoranthene	U	0.77	10.	ug/l	8270C	05/09/08	1	10
Benzo(k)fluoranthene	U	0.90	10.	ug/l	8270C	05/09/08	1	10
Benzo(g,h,i)perylene	U	0.65	10.	ug/l	8270C	05/09/08	1	10
Benzo(a)pyrene	U	0.65	10.	ug/l	8270C	05/09/08	1	10
Benzyl alcohol	U	1.4	10.	ug/l	8270C	05/09/08	1	20
Bis(2-chlorethoxy)methane	U	2.3	10.	ug/l	8270C	05/09/08	1	10
Bis(2-chloroethyl)ether	U	1.9	10.	ug/l	8270C	05/09/08	1	10
4-Bromophenyl-phenylether	U	1.3	10.	ug/l	8270C	05/09/08	1	10
4-Chloroaniline	U	2.6	10.	ug/l	8270C	05/09/08	1	20
2-Chloronaphthalene	U	1.7	10.	ug/l	8270C	05/09/08	1	10
4-Chlorophenyl-phenylether	U	1.8	10.	ug/l	8270C	05/09/08	1	10
Chrysene	U	0.80	10.	ug/l	8270C	05/09/08	1	10
Dibenz(a,h)anthracene	U	0.70	10.	ug/l	8270C	05/09/08	1	10
Dibenzofuran	U	1.5	10.	ug/l	8270C	05/09/08	1	10
3,3-Dichlorobenzidine	U	0.79	10.	ug/l	8270C	05/09/08	1	20
2,4-Dinitrotoluene	U	1.1	10.	ug/l	8270C	05/09/08	1	10
2,6-Dinitrotoluene	U	1.4	10.	ug/l	8270C	05/09/08	1	10
Fluoranthene	U	1.2	10.	ug/l	8270C	05/09/08	1	10
Fluorene	U	1.5	10.	ug/l	8270C	05/09/08	1	10
Hexachlorobenzene	U	1.2	10.	ug/l	8270C	05/09/08	1	10
Hexachloro-1,3-butadiene	U	2.4	10.	ug/l	8270C	05/09/08	1	10
Hexachlorocyclopentadiene	U	1.6	10.	ug/l	8270C	05/09/08	1	10
Hexachloroethane	U	1.8	10.	ug/l	8270C	05/09/08	1	10
Indeno(1,2,3-cd)pyrene	U	0.72	10.	ug/l	8270C	05/09/08	1	10
Isophorone	U	2.8	10.	ug/l	8270C	05/09/08	1	10
2-Methylnaphthalene	U	2.0	10.	ug/l	8270C	05/09/08	1	10
Naphthalene	U	2.1	10.	ug/l	8270C	05/09/08	1	10
2-Nitroaniline	U	1.5	10.	ug/l	8270C	05/09/08	1	50
3-Nitroaniline	U	1.2	10.	ug/l	8270C	05/09/08	1	50
4-Nitroaniline	U	1.6	10.	ug/l	8270C	05/09/08	1	20
Nitrobenzene	U	2.1	10.	ug/l	8270C	05/09/08	1	10
n-Nitrosodiphenylamine	U	1.7	10.	ug/l	8270C	05/09/08	1	10
n-Nitrosodi-n-propylamine	U	2.4	10.	ug/l	8270C	05/09/08	1	10
Phenanthrene	U	1.1	10.	ug/l	8270C	05/09/08	1	10
Benzylbutyl phthalate	U	1.0	10.	ug/l	8270C	05/09/08	1	10
Bis(2-ethylhexyl)phthalate	U	1.3	10.	ug/l	8270C	05/09/08	1	15
Di-n-butyl phthalate	U	1.1	10.	ug/l	8270C	05/09/08	1	10

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

May 19, 2008

ESC Sample # : L344412-02

Date Received : May 08, 2008
Description : City of Durham Landfill

Site ID :

Sample ID : MW-9R

Project # : 1054-07-469

Collected By : Jerry Paul
Collection Date : 05/06/08 13:35

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Diethyl phthalate	U	1.1	10.	ug/l	8270C	05/09/08	1	10
Dimethyl phthalate	U	1.3	10.	ug/l	8270C	05/09/08	1	10
Di-n-octyl phthalate	U	0.94	10.	ug/l	8270C	05/09/08	1	10
Pyrene	U	0.77	10.	ug/l	8270C	05/09/08	1	10
1,2,4-Trichlorobenzene	U	2.0	10.	ug/l	8270C	05/09/08	1	10
Acid Extractables								
4-Chloro-3-methylphenol	U	1.8	10.	ug/l	8270C	05/09/08	1	20
2-Chlorophenol	U	1.3	10.	ug/l	8270C	05/09/08	1	10
2-Methylphenol	U	1.3	10.	ug/l	8270C	05/09/08	1	10
3&4-methyl phenol	U	1.1	10.	ug/l	8270C	05/09/08	1	10
2,4-Dichlorophenol	U	2.0	10.	ug/l	8270C	05/09/08	1	50
2,4-Dimethylphenol	U	2.1	10.	ug/l	8270C	05/09/08	1	10
4,6-Dinitro-2-methylphenol	U	2.2	10.	ug/l	8270C	05/09/08	1	50
2,4-Dinitrophenol	U	1.2	10.	ug/l	8270C	05/09/08	1	50
2-Nitrophenol	U	2.1	10.	ug/l	8270C	05/09/08	1	10
4-Nitrophenol	U	0.76	10.	ug/l	8270C	05/09/08	1	50
Pentachlorophenol	U	2.4	10.	ug/l	8270C	05/09/08	1	25
Phenol	U	0.59	10.	ug/l	8270C	05/09/08	1	10
2,4,5-Trichlorophenol	U	1.7	10.	ug/l	8270C	05/09/08	1	10
2,4,6-Trichlorophenol	U	2.0	10.	ug/l	8270C	05/09/08	1	10
Additional Semi-Volatiles								
Acetophenone	U	3.3	10.	ug/l	8270C	05/09/08	1	10
2-Acetylaminofluorene	U	3.3	10.	ug/l	8270C	05/17/08	1	20
4-Aminobiphenyl	U	3.3	10.	ug/l	8270C	05/17/08	1	15
Chlorobenzilate	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Diallate	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Ethyl methanesulfonate	U	3.3	10.	ug/l	8270C	05/17/08	1	20
Famphur	U	3.3	10.	ug/l	8270C	05/17/08	1	20
Hexachloropropene	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Isodrin	U	3.3	10.	ug/l	8270C	05/17/08	1	20
Isosafrole	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Kepone	U	3.3	10.	ug/l	8270C	05/17/08	1	20
Methapyrilene	U	3.3	10.	ug/l	8270C	05/17/08	1	100
3-Methylcholanthrene	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Methyl methanesulfonate	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Methyl parathion	U	3.3	10.	ug/l	8270C	05/17/08	1	10
1,4-Naphthoquinone	U	3.3	10.	ug/l	8270C	05/17/08	1	10
1-Naphthylamine	U	3.3	10.	ug/l	8270C	05/17/08	1	10
2-Naphthylamine	U	3.3	10.	ug/l	8270C	05/17/08	1	10
n-Nitrosodi-n-butylamine	U	3.3	10.	ug/l	8270C	05/17/08	1	10
n-Nitrosodiethylamine	U	3.3	10.	ug/l	8270C	05/17/08	1	20
n-Nitrosodimethylamine	U	1.3	10.	ug/l	8270C	05/09/08	1	10

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
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REPORT OF ANALYSIS

Jerry Paul
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

May 19, 2008

ESC Sample # : L344412-02

Date Received : May 08, 2008
Description : City of Durham Landfill

Site ID :

Sample ID : MW-9R

Project # : 1054-07-469

Collected By : Jerry Paul
Collection Date : 05/06/08 13:35

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
n-Nitrosomethylethylamine	U	3.3	10.	ug/l	8270C	05/17/08	1	10
n-Nitrosopiperidine	U	3.3	10.	ug/l	8270C	05/17/08	1	20
n-Nitrosopyrrolidine	U	3.3	10.	ug/l	8270C	05/17/08	1	10
5-Nitro-o-toluidine	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Parathion	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Pentachlorobenzene	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Pentachloronitrobenzene	U	3.3	10.	ug/l	8270C	05/17/08	1	20
Phenacetin	U	3.3	10.	ug/l	8270C	05/17/08	1	20
Phorate	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Pronamide	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Dimethoate	U	3.3	10.	ug/l	8270C	05/17/08	1	20
P-(Dimethylamino) Azobenzene	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Dimethylbenz (A) Anthracene	U	3.3	10.	ug/l	8270C	05/17/08	1	10
3,3-Dimethylbenzidine	U	3.3	10.	ug/l	8270C	05/17/08	1	10
1,3-Dinitrobenzene	U	3.3	10.	ug/l	8270C	05/17/08	1	20
Diphenylamine	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Disulfoton	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Safrole	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Thionazin	U	3.3	10.	ug/l	8270C	05/17/08	1	20
o-Toluidine	U	3.3	10.	ug/l	8270C	05/17/08	1	10
O,O,O-Triethyl phosphorothioate	U	3.3	10.	ug/l	8270C	05/17/08	1	10
sym-Trinitrobenzene	U	3.3	10.	ug/l	8270C	05/17/08	1	10
1,2,4,5-Tetrachlorobenzene	U	3.3	10.	ug/l	8270C	05/09/08	1	10
2,6-Dichlorophenol	U	3.3	10.	ug/l	8270C	05/17/08	1	10
2,3,4,6-Tetrachlorophenol	U	3.3	10.	ug/l	8270C	05/17/08	1	10
Surrogate Recovery								
Nitrobenzene-d5	59.3			% Rec.	8270C	05/09/08	1	
2-Fluorobiphenyl	77.9			% Rec.	8270C	05/09/08	1	
p-Terphenyl-d14	104.			% Rec.	8270C	05/09/08	1	
Phenol-d5	22.4			% Rec.	8270C	05/09/08	1	
2-Fluorophenol	31.1			% Rec.	8270C	05/09/08	1	
2,4,6-Tribromophenol	108.			% Rec.	8270C	05/09/08	1	

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Summary of Remarks For Samples Printed
05/19/08 at 10:21:57

TSR Signing Reports: 690
R5 - Desired TAT

Sample: L344412-01 Account: SMERLNC Received: 05/08/08 07:45 Due Date: 05/15/08 00:00 RPT Date: 05/19/08 10:21
EDD=SWSL NCLF
Sample: L344412-02 Account: SMERLNC Received: 05/08/08 07:45 Due Date: 05/15/08 00:00 RPT Date: 05/19/08 10:21
EDD=SWSL NCLF

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S&ME Inc. - Raleigh NC
Jerry Paul
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L344412

May 19, 2008

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
1,2,4,5-Tetrachlorobenzene	< .05	ppm	05/09/08 11:06	WG360032
1,2,4-Trichlorobenzene	< .01	ppm	05/09/08 11:06	WG360032
2,4,5-Trichlorophenol	< .01	ppm	05/09/08 11:06	WG360032
2,4,6-Trichlorophenol	< .01	ppm	05/09/08 11:06	WG360032
2,4-Dichlorophenol	< .01	ppm	05/09/08 11:06	WG360032
2,4-Dimethylphenol	< .01	ppm	05/09/08 11:06	WG360032
2,4-Dinitrophenol	< .01	ppm	05/09/08 11:06	WG360032
2,4-Dinitrotoluene	< .01	ppm	05/09/08 11:06	WG360032
2,6-Dinitrotoluene	< .01	ppm	05/09/08 11:06	WG360032
2-Chloronaphthalene	< .01	ppm	05/09/08 11:06	WG360032
2-Chlorophenol	< .01	ppm	05/09/08 11:06	WG360032
2-Methylnaphthalene	< .01	ppm	05/09/08 11:06	WG360032
2-Methylphenol	< .01	ppm	05/09/08 11:06	WG360032
2-Nitroaniline	< .01	ppm	05/09/08 11:06	WG360032
2-Nitrophenol	< .01	ppm	05/09/08 11:06	WG360032
3,3-Dichlorobenzidine	< .01	ppm	05/09/08 11:06	WG360032
3-Nitroaniline	< .01	ppm	05/09/08 11:06	WG360032
4,6-Dinitro-2-methylphenol	< .01	ppm	05/09/08 11:06	WG360032
4-Bromophenyl-phenylether	< .01	ppm	05/09/08 11:06	WG360032
4-Chloro-3-methylphenol	< .01	ppm	05/09/08 11:06	WG360032
4-Chloroaniline	< .01	ppm	05/09/08 11:06	WG360032
4-Chlorophenyl-phenylether	< .01	ppm	05/09/08 11:06	WG360032
4-Nitroaniline	< .01	ppm	05/09/08 11:06	WG360032
4-Nitrophenol	< .01	ppm	05/09/08 11:06	WG360032
Acenaphthene	< .01	ppm	05/09/08 11:06	WG360032
Acenaphthylene	< .01	ppm	05/09/08 11:06	WG360032
Acetophenone	< .01	ppm	05/09/08 11:06	WG360032
Anthracene	< .01	ppm	05/09/08 11:06	WG360032
Benzo(a)anthracene	< .01	ppm	05/09/08 11:06	WG360032
Benzo(a)pyrene	< .01	ppm	05/09/08 11:06	WG360032
Benzo(b)fluoranthene	< .01	ppm	05/09/08 11:06	WG360032
Benzo(g,h,i)perylene	< .01	ppm	05/09/08 11:06	WG360032
Benzo(k)fluoranthene	< .01	ppm	05/09/08 11:06	WG360032
Benzyl alcohol	< .01	ppm	05/09/08 11:06	WG360032
Benzylbutyl phthalate	< .01	ppm	05/09/08 11:06	WG360032
Bis(2-chlorethoxy)methane	< .01	ppm	05/09/08 11:06	WG360032
Bis(2-chloroethyl)ether	< .01	ppm	05/09/08 11:06	WG360032
Bis(2-ethylhexyl)phthalate	< .01	ppm	05/09/08 11:06	WG360032
Chrysene	< .01	ppm	05/09/08 11:06	WG360032
Di-n-butyl phthalate	< .01	ppm	05/09/08 11:06	WG360032
Di-n-octyl phthalate	< .01	ppm	05/09/08 11:06	WG360032
Dibenz(a,h)anthracene	< .01	ppm	05/09/08 11:06	WG360032
Dibenzofuran	< .01	ppm	05/09/08 11:06	WG360032
Diethyl phthalate	< .01	ppm	05/09/08 11:06	WG360032
Dimethyl phthalate	< .01	ppm	05/09/08 11:06	WG360032
Fluoranthene	< .01	ppm	05/09/08 11:06	WG360032
Fluorene	< .01	ppm	05/09/08 11:06	WG360032
Hexachloro-1,3-butadiene	< .01	ppm	05/09/08 11:06	WG360032
Hexachlorobenzene	< .01	ppm	05/09/08 11:06	WG360032
Hexachlorocyclopentadiene	< .01	ppm	05/09/08 11:06	WG360032
Hexachloroethane	< .01	ppm	05/09/08 11:06	WG360032
Indeno(1,2,3-cd)pyrene	< .01	ppm	05/09/08 11:06	WG360032
Isophorone	< .01	ppm	05/09/08 11:06	WG360032
3&4-methyl phenol	< .01	ppm	05/09/08 11:06	WG360032
n-Nitrosodi-n-propylamine	< .01	ppm	05/09/08 11:06	WG360032
n-Nitrosodimethylamine	< .05	ppm	05/09/08 11:06	WG360032
n-Nitrosodiphenylamine	< .01	ppm	05/09/08 11:06	WG360032
Naphthalene	< .01	ppm	05/09/08 11:06	WG360032
Nitrobenzene	< .01	ppm	05/09/08 11:06	WG360032
Pentachlorophenol	< .01	ppm	05/09/08 11:06	WG360032

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S&ME Inc. - Raleigh NC
Jerry Paul
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L344412

May 19, 2008

Phenanthrene	< .01	ppm	05/09/08 11:06	WG360032

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
Phenol	< .01	ppm	05/09/08 11:06	WG360032
Pyrene	< .01	ppm	05/09/08 11:06	WG360032

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,2,4,5-Tetrachlorobenzene	ppm	.01	0.00822	82.2	39-116	WG360032
1,2,4-Trichlorobenzene	ppm	.01	0.00699	69.9	26-103	WG360032
2,4,5-Trichlorophenol	ppm	.01	0.00891	89.1	48-120	WG360032
2,4,6-Trichlorophenol	ppm	.01	0.00892	89.2	49-118	WG360032
2,4-Dichlorophenol	ppm	.01	0.00780	78.0	46-115	WG360032
2,4-Dimethylphenol	ppm	.01	0.00812	81.2	40-124	WG360032
2,4-Dinitrophenol	ppm	.01	0.00774	77.4	10-125	WG360032
2,4-Dinitrotoluene	ppm	.01	0.00876	87.6	56-128	WG360032
2,6-Dinitrotoluene	ppm	.01	0.00858	85.8	56-121	WG360032
2-Chloronaphthalene	ppm	.01	0.00795	79.5	44-110	WG360032
2-Chlorophenol	ppm	.01	0.00695	69.5	38-114	WG360032
2-Methylnaphthalene	ppm	.01	0.00775	77.5	28-122	WG360032
2-Methylphenol	ppm	.01	0.00637	63.7	42-99	WG360032
2-Nitroaniline	ppm	.01	0.00858	85.8	55-124	WG360032
2-Nitrophenol	ppm	.01	0.00792	79.2	35-118	WG360032
3,3-Dichlorobenzidine	ppm	.01	0.00909	90.9	46-145	WG360032
3-Nitroaniline	ppm	.01	0.00853	85.3	39-141	WG360032
4,6-Dinitro-2-methylphenol	ppm	.01	0.00852	85.2	24-119	WG360032
4-Bromophenyl-phenylether	ppm	.01	0.00894	89.4	45-105	WG360032
4-Chloro-3-methylphenol	ppm	.01	0.00761	76.1	47-116	WG360032
4-Chloroaniline	ppm	.01	0.00909	90.9	21-151	WG360032
4-Chlorophenyl-phenylether	ppm	.01	0.00852	85.2	49-116	WG360032
4-Nitroaniline	ppm	.01	0.00874	87.4	43-144	WG360032
4-Nitrophenol	ppm	.01	0.00241	24.1	10-66	WG360032
Acenaphthene	ppm	.01	0.00799	79.9	48-110	WG360032
Acenaphthylene	ppm	.01	0.00810	81.0	48-113	WG360032
Acetophenone	ppm	.01	0.00390	39.0	35-98	WG360032
Anthracene	ppm	.01	0.00949	94.9	55-127	WG360032
Benzo(a)anthracene	ppm	.01	0.00922	92.2	57-115	WG360032
Benzo(a)pyrene	ppm	.01	0.00945	94.5	63-125	WG360032
Benzo(b)fluoranthene	ppm	.01	0.00840	84.0	50-123	WG360032
Benzo(g,h,i)perylene	ppm	.01	0.0104	104.	39-143	WG360032
Benzo(k)fluoranthene	ppm	.01	0.00962	96.2	45-126	WG360032
Benzyl alcohol	ppm	.01	0.00682	68.2	33-104	WG360032
Benzylbutyl phthalate	ppm	.01	0.00868	86.8	22-154	WG360032
Bis(2-chlorethoxy)methane	ppm	.01	0.00852	85.2	42-116	WG360032
Bis(2-chloroethyl)ether	ppm	.01	0.00768	76.8	26-115	WG360032
Bis(2-ethylhexyl)phthalate	ppm	.01	0.00972	97.2	47-143	WG360032
Chrysene	ppm	.01	0.00933	93.3	58-113	WG360032
Di-n-butyl phthalate	ppm	.01	0.0101	101.	51-131	WG360032
Di-n-octyl phthalate	ppm	.01	0.00977	97.7	51-138	WG360032
Dibenz(a,h)anthracene	ppm	.01	0.0106	106.	39-144	WG360032
Dibenzofuran	ppm	.01	0.00831	83.1	50-121	WG360032
Diethyl phthalate	ppm	.01	0.00813	81.3	36-128	WG360032
Dimethyl phthalate	ppm	.01	0.00737	73.7	10-135	WG360032
Fluoranthene	ppm	.01	0.00944	94.4	53-119	WG360032
Fluorene	ppm	.01	0.00808	80.8	49-116	WG360032
Hexachloro-1,3-butadiene	ppm	.01	0.00792	79.2	21-116	WG360032
Hexachlorobenzene	ppm	.01	0.00984	98.4	51-121	WG360032
Hexachlorocyclopentadiene	ppm	.01	0.00717	71.7	4-126	WG360032
Hexachloroethane	ppm	.01	0.00662	66.2	15-109	WG360032
Indeno(1,2,3-cd)pyrene	ppm	.01	0.0107	107.	40-143	WG360032
Isophorone	ppm	.01	0.00893	89.3	48-126	WG360032

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Raleigh, NC 27616

Quality Assurance Report
Level II

L344412

May 19, 2008

3&4-methyl phenol	ppm	.01	0.00653	65.3	36-102	WG360032

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
n-Nitrosodi-n-propylamine	ppm	.01	0.00883	88.3	47-122	WG360032
n-Nitrosodimethylamine	ppm	.01	0.00440	44.0	11-69	WG360032
n-Nitrosodiphenylamine	ppm	.01	0.0103	103.	59-143	WG360032
Naphthalene	ppm	.01	0.00730	73.0	29-103	WG360032
Nitrobenzene	ppm	.01	0.00697	69.7	31-105	WG360032
Pentachlorophenol	ppm	.01	0.00830	83.0	20-122	WG360032
Phenanthrene	ppm	.01	0.00902	90.2	54-112	WG360032
Phenol	ppm	.01	0.00339	33.9	17-52	WG360032
Pyrene	ppm	.01	0.00901	90.1	46-130	WG360032

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
1,2,4,5-Tetrachlorobenzene	ppm	0.0075	0.0082	7.97	33	76	WG360032
1,2,4-Trichlorobenzene	ppm	0.0059	0.0069	15.6	38	60	WG360032
2,4,5-Trichlorophenol	ppm	0.0093	0.0089	4.50	29	93	WG360032
2,4,6-Trichlorophenol	ppm	0.0087	0.0089	1.47	28	88	WG360032
2,4-Dichlorophenol	ppm	0.0074	0.0078	4.86	28	74	WG360032
2,4-Dimethylphenol	ppm	0.0075	0.0081	7.54	36	75	WG360032
2,4-Dinitrophenol	ppm	0.0092	0.0077	17.3	50	92	WG360032
2,4-Dinitrotoluene	ppm	0.0095	0.0087	8.84	24	96	WG360032
2,6-Dinitrotoluene	ppm	0.0090	0.0085	5.55	23	91	WG360032
2-Chloronaphthalene	ppm	0.0078	0.0079	1.27	30	79	WG360032
2-Chlorophenol	ppm	0.0057	0.0069	19.4	36	57	WG360032
2-Methylnaphthalene	ppm	0.0074	0.0077	4.08	36	74	WG360032
2-Methylphenol	ppm	0.0057	0.0063	10.2	26	58	WG360032
2-Nitroaniline	ppm	0.0092	0.0085	7.73	22	93	WG360032
2-Nitrophenol	ppm	0.0071	0.0079	10.2	35	72	WG360032
3,3-Dichlorobenzidine	ppm	0.0090	0.0090	0.110	31	91	WG360032
3-Nitroaniline	ppm	0.0097	0.0085	13.7	32	98	WG360032
4,6-Dinitro-2-methylphenol	ppm	0.0094	0.0085	10.8	50	95	WG360032
4-Bromophenyl-phenylether	ppm	0.0082	0.0089	8.27	26	82	WG360032
4-Chloro-3-methylphenol	ppm	0.0081	0.0076	6.98	22	82	WG360032
4-Chloroaniline	ppm	0.0089	0.0090	1.33	36	90	WG360032
4-Chlorophenyl-phenylether	ppm	0.0088	0.0085	3.91	26	89	WG360032
4-Nitroaniline	ppm	0.0101	0.0087	14.4	34	101	WG360032
4-Nitrophenol	ppm	0.0028	0.0024	16.7	37	29	WG360032
Acenaphthene	ppm	0.0083	0.0079	4.29	26	83	WG360032
Acenaphthylene	ppm	0.0084	0.0081	3.64	28	84	WG360032
Acetophenone	ppm	0.0035	0.0039	9.96	38	35	WG360032
Anthracene	ppm	0.0096	0.0094	1.98	24	97	WG360032
Benzo(a)anthracene	ppm	0.0096	0.0092	4.45	20	96	WG360032
Benzo(a)pyrene	ppm	0.0094	0.0094	0.422	22	95	WG360032
Benzo(b)fluoranthene	ppm	0.0097	0.0084	15.1	32	98	WG360032
Benzo(g,h,i)perylene	ppm	0.0103	0.0104	0.580	31	103	WG360032
Benzo(k)fluoranthene	ppm	0.0085	0.0096	11.8	37	86	WG360032
Benzyl alcohol	ppm	0.0062	0.0068	9.04	32	62	WG360032
Benzylbutyl phthalate	ppm	0.0083	0.0086	4.48	29	83	WG360032
Bis(2-chlorethoxy)methane	ppm	0.0078	0.0085	7.68	38	79	WG360032
Bis(2-chloroethyl)ether	ppm	0.0058	0.0076	26.7	50	59	WG360032
Bis(2-ethylhexyl)phthalate	ppm	0.0093	0.0097	4.31	24	93	WG360032
Chrysene	ppm	0.0096	0.0093	3.06	21	96	WG360032
Di-n-butyl phthalate	ppm	0.0093	0.0101	7.50	22	94	WG360032
Di-n-octyl phthalate	ppm	0.0103	0.0097	5.09	22	103	WG360032
Dibenz(a,h)anthracene	ppm	0.0106	0.0106	0.0941	30	106	WG360032
Dibenzofuran	ppm	0.0085	0.0083	3.08	26	86	WG360032
Diethyl phthalate	ppm	0.0082	0.0081	1.59	27	83	WG360032
Dimethyl phthalate	ppm	0.0073	0.0073	0.817	33	73	WG360032
Fluoranthene	ppm	0.0094	0.0094	0.528	28	95	WG360032

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Level II

L344412

May 19, 2008

Fluorene	ppm	0.0088	0.0080	9.55	25	89	WG360032

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
Hexachloro-1,3-butadiene	ppm	0.0063	0.0079	21.5	50	64	WG360032
Hexachlorobenzene	ppm	0.0090	0.0098	8.25	23	91	WG360032
Hexachlorocyclopentadiene	ppm	0.0073	0.0071	3.02	50	74	WG360032
Hexachloroethane	ppm	0.0051	0.0066	24.4	50	52	WG360032
Indeno(1,2,3-cd)pyrene	ppm	0.0104	0.0107	2.27	30	104	WG360032
Isophorone	ppm	0.0085	0.0089	4.93	31	85	WG360032
3&4-methyl phenol	ppm	0.0061	0.0065	5.83	31	62	WG360032
n-Nitrosodi-n-propylamine	ppm	0.0082	0.0088	6.91	33	82	WG360032
n-Nitrosodimethylamine	ppm	0.0033	0.0044	28.0	50	33	WG360032
n-Nitrosodiphenylamine	ppm	0.0097	0.0103	5.39	23	98	WG360032
Naphthalene	ppm	0.0061	0.0073	17.3	45	61	WG360032
Nitrobenzene	ppm	0.0062	0.0069	10.4	43	63	WG360032
Pentachlorophenol	ppm	0.0085	0.0083	3.20	50	86	WG360032
Phenanthrene	ppm	0.0090	0.0090	0.222	22	90	WG360032
Phenol	ppm	0.0029	0.0033	15.2	33	29	WG360032
Pyrene	ppm	0.0087	0.0090	3.16	28	87	WG360032

Batch number /Run number / Sample number cross reference

WG360032: R369189: L344412-01 02

* * Calculations are performed prior to rounding of reported values .

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Quality Assurance Report
Level II

L344412

May 19, 2008

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Company Name/Address:
SME
3201 Spring Forest Rd.
Raleigh, NC 27604

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
Page 1 of 1

Prepared by:

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Report to: Jerry Paul
Email to: JPaul@Smeinc.com
Project Description: City of Durham LANDFILL
City/Sate Collected: Durham, NC
Phone (919) 872 2660
FAX: 790 9827
Client Project #: 1054-07-469
ESC Key:
Collected by: Jerry Paul
Site/Facility ID#:
P.O.#:
Collected by (signature):
Immediately Packed on Ice N___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%
___ Three Day.....25%

Date Results Needed:
Email? __No X Yes
FAX? X No __Yes

CoCode: SMERLNC-NCLF (lab use only)
Template/Prelogin: EDD
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	XIC App IV SVOCs						Remarks/Contaminant	Sample # (lab only)
MW-3B	GRAB	GW	—	5/6/08	1255	2	X							1344112-01
MW-9R	GRAB	GW	—	5/6/08	1335	2	X							-02

*Matrix: **SS** - Soil/Solid **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Remarks: SMERLNC-NCLF EDD

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ Hand	Condition: (lab use only)
	5/7/08	1147			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 31° / Bottles Received: 46	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 5.8.08 / Time: 0745	pH Checked: / NCF:

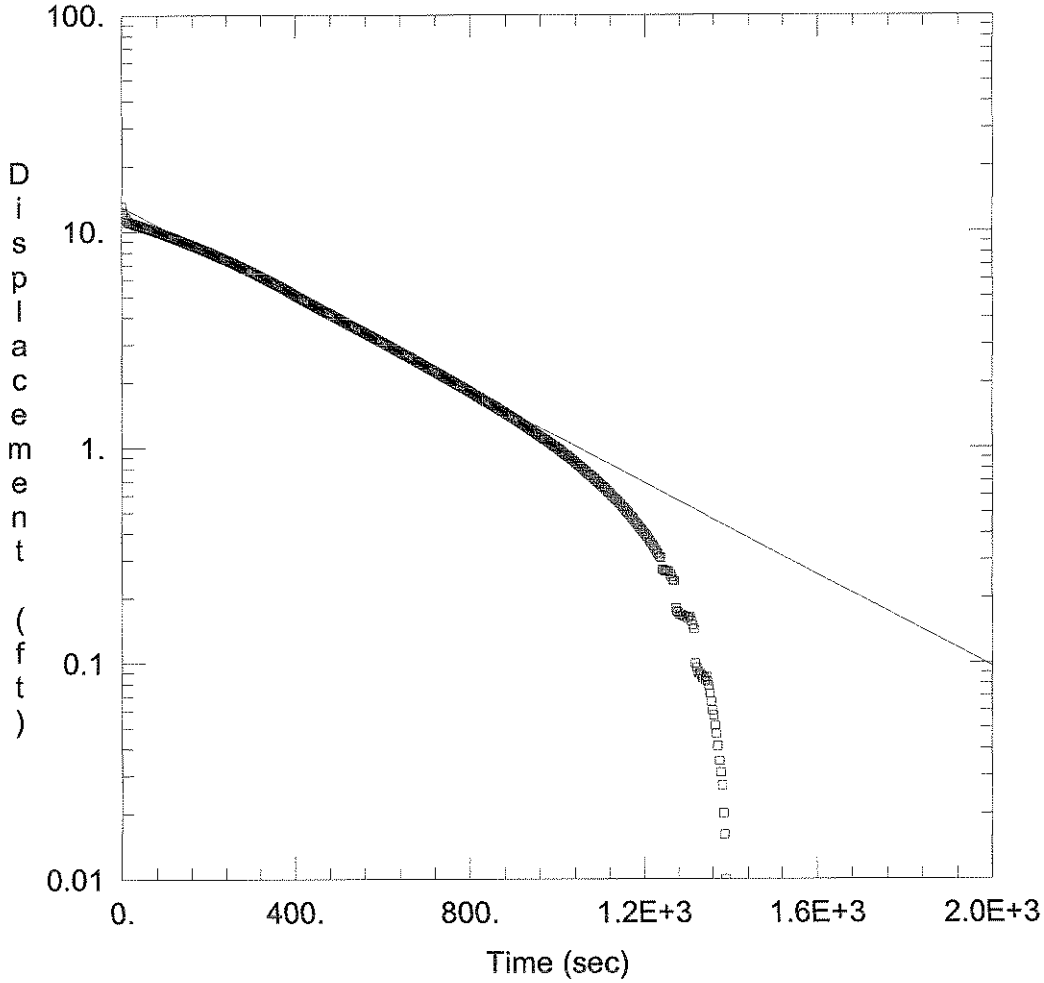
APPENDIX III

COMPACT DISK WITH ELECTRONIC COPY OF TABLE 7 (.XLS) AND ELECTRONIC COPY OF THIS REPORT (.PDF)

APPENDIX IV

RISING HEAD TESTS

(MW-2, MW3R, MW-4R, MW-5, MW6R, MW-7R, MW-8 AND MW-9R)



CITY OF DURHAM MSWLF MW-2

Data Set: C:\...\MW-2.aqt
Date: 07/30/08 Time: 16:51:25

PROJECT INFORMATION

Company: City of Durham MSWLF
Client: City of Durham
Project: 1054-07-469
Location: Druham, NC
Test Well: MW-2
Test Date: April 2008

AQUIFER DATA

Saturated Thickness: 25. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-2)

Initial Displacement: 13.05 ft
Total Well Penetration Depth: 15.95 ft
Casing Radius: 0.083 ft
Static Water Column Height: 15.95 ft
Screen Length: 10. ft
Wellbore Radius: 0.3542 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 2.022E-6 ft/sec y0 = 13.01 ft

Data Set: C:\Documents and Settings\jpaul\Desktop\City of Durham Closed Landfill\Rising Head Tests may 200
Title: City of Durham MSWLF MW-2
Date: 07/30/08
Time: 16:51:40

PROJECT INFORMATION

Company: City of Durham MSWLF
Client: City of Durham
Project: 1054-07-469
Location: Druham, NC
Test Date: April 2008
Test Well: MW-2

AQUIFER DATA

Saturated Thickness: 25. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-2

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 13.05 ft
Static Water Column Height: 15.95 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.3542 ft
Well Skin Radius: 0.3542 ft
Screen Length: 10. ft
Total Well Penetration Depth: 15.95 ft

No. of Observations: 465

Observation Data

Time (sec)	Displacement (ft)
3.	12.19
6.	11.74
9.	11.57
12.	11.34
15.	11.12
18.	11.02
21.	10.98
24.	10.93
27.	10.88
30.	10.82
33.	10.77
36.	10.72
39.	10.67
42.	10.62
45.	10.57
48.	10.52
51.	10.47
54.	10.42
57.	10.36
60.	10.31
63.	10.26
66.	10.21
69.	10.16
72.	10.11
75.	10.06
78.	10.01
81.	9.959
84.	9.911

Time (sec)	Displacement (ft)
87.	9.859
90.	9.81
93.	9.758
96.	9.708
99.	9.658
102.	9.608
105.	9.559
108.	9.509
111.	9.459
114.	9.409
117.	9.36
120.	9.312
123.	9.262
126.	9.211
129.	9.161
132.	9.113
135.	9.061
138.	9.012
141.	8.964
144.	8.916
147.	8.869
150.	8.819
153.	8.773
156.	8.726
159.	8.682
162.	8.635
165.	8.585
168.	8.539
171.	8.492
174.	8.444
177.	8.397
180.	8.349
183.	8.301
186.	8.254
189.	8.208
192.	8.161
195.	8.113
198.	8.067
201.	8.022
204.	7.974
207.	7.927
210.	7.881
213.	7.833
216.	7.788
219.	7.74
222.	7.693
225.	7.645
228.	7.598
231.	7.554
234.	7.506
237.	7.461
240.	7.413
243.	7.37
246.	7.322
249.	7.277
252.	7.231
255.	7.186
258.	7.14
261.	7.095
264.	7.049
267.	7.003
270.	6.958
273.	6.912
276.	6.865
279.	6.823

Time (sec)	Displacement (ft)
282.	6.776
285.	6.733
288.	6.685
291.	6.641
294.	6.596
297.	6.55
300.	6.507
303.	6.464
306.	6.418
309.	6.375
312.	6.329
315.	6.284
318.	6.238
321.	6.195
324.	6.151
327.	6.108
330.	6.064
333.	6.021
336.	5.977
339.	5.932
342.	5.891
345.	5.847
348.	5.802
351.	5.76
354.	5.717
357.	5.673
360.	5.63
363.	5.586
366.	5.545
369.	5.502
372.	5.46
375.	5.417
378.	5.376
381.	5.334
384.	5.291
387.	5.251
390.	5.21
393.	5.167
396.	5.127
399.	5.086
402.	5.045
405.	5.007
408.	4.966
411.	4.929
414.	4.892
417.	4.855
420.	4.819
423.	4.782
426.	4.745
429.	4.71
432.	4.672
435.	4.639
438.	4.604
441.	4.569
444.	4.536
447.	4.503
450.	4.468
453.	4.435
456.	4.404
459.	4.368
462.	4.335
465.	4.304
468.	4.271
471.	4.238
474.	4.207

Time (sec)	Displacement (ft)
477.	4.176
480.	4.143
483.	4.114
486.	4.083
489.	4.05
492.	4.019
495.	3.992
498.	3.961
501.	3.93
504.	3.901
507.	3.872
510.	3.843
513.	3.814
516.	3.787
519.	3.76
522.	3.732
525.	3.705
528.	3.676
531.	3.649
534.	3.622
537.	3.595
540.	3.568
543.	3.541
546.	3.514
549.	3.49
552.	3.463
555.	3.434
558.	3.409
561.	3.384
564.	3.357
567.	3.332
570.	3.305
573.	3.283
576.	3.258
579.	3.231
582.	3.206
585.	3.186
588.	3.161
591.	3.136
594.	3.111
597.	3.091
600.	3.066
603.	3.043
606.	3.018
609.	2.995
612.	2.975
615.	2.952
618.	2.929
621.	2.906
624.	2.886
627.	2.865
630.	2.842
633.	2.82
636.	2.799
639.	2.778
642.	2.756
645.	2.735
648.	2.714
651.	2.694
654.	2.673
657.	2.652
660.	2.632
663.	2.611
666.	2.592
669.	2.57

Time (sec)	Displacement (ft)
672.	2.551
675.	2.53
678.	2.51
681.	2.491
684.	2.473
687.	2.452
690.	2.433
693.	2.415
696.	2.396
699.	2.377
702.	2.359
705.	2.338
708.	2.32
711.	2.303
714.	2.287
717.	2.268
720.	2.247
723.	2.233
726.	2.214
729.	2.198
732.	2.179
735.	2.162
738.	2.144
741.	2.127
744.	2.111
747.	2.094
750.	2.078
753.	2.061
756.	2.045
759.	2.028
762.	2.014
765.	1.995
768.	1.978
771.	1.964
774.	1.948
777.	1.931
780.	1.919
783.	1.9
786.	1.883
789.	1.869
792.	1.852
795.	1.836
798.	1.823
801.	1.809
804.	1.792
807.	1.776
810.	1.764
813.	1.747
816.	1.735
819.	1.72
822.	1.704
825.	1.689
828.	1.675
831.	1.66
834.	1.648
837.	1.633
840.	1.621
843.	1.606
846.	1.592
849.	1.577
852.	1.565
855.	1.553
858.	1.54
861.	1.526
864.	1.513

Time (sec)	Displacement (ft)
867.	1.499
870.	1.484
873.	1.472
876.	1.462
879.	1.449
882.	1.435
885.	1.422
888.	1.408
891.	1.398
894.	1.385
897.	1.373
900.	1.36
903.	1.348
906.	1.336
909.	1.323
912.	1.311
915.	1.298
918.	1.286
921.	1.276
924.	1.265
927.	1.253
930.	1.24
933.	1.23
936.	1.218
939.	1.203
942.	1.193
945.	1.183
948.	1.172
951.	1.16
954.	1.149
957.	1.137
960.	1.125
963.	1.114
966.	1.102
969.	1.092
972.	1.083
975.	1.073
978.	1.061
981.	1.05
984.	1.04
987.	1.027
990.	1.017
993.	1.007
996.	0.998
999.	0.988
1002.	0.978
1005.	0.967
1008.	0.955
1011.	0.945
1014.	0.934
1017.	0.924
1020.	0.916
1023.	0.907
1026.	0.895
1029.	0.887
1032.	0.876
1035.	0.866
1038.	0.856
1041.	0.845
1044.	0.835
1047.	0.825
1050.	0.818
1053.	0.81
1056.	0.798
1059.	0.789

Time (sec)	Displacement (ft)
1062.	0.779
1065.	0.771
1068.	0.76
1071.	0.75
1074.	0.742
1077.	0.736
1080.	0.725
1083.	0.717
1086.	0.707
1089.	0.696
1092.	0.688
1095.	0.68
1098.	0.672
1101.	0.661
1104.	0.653
1107.	0.647
1110.	0.636
1113.	0.628
1116.	0.62
1119.	0.612
1122.	0.601
1125.	0.593
1128.	0.585
1131.	0.576
1134.	0.57
1137.	0.562
1140.	0.554
1143.	0.545
1146.	0.537
1149.	0.529
1152.	0.521
1155.	0.512
1158.	0.504
1161.	0.498
1164.	0.49
1167.	0.483
1170.	0.475
1173.	0.467
1176.	0.458
1179.	0.45
1182.	0.444
1185.	0.436
1188.	0.427
1191.	0.419
1194.	0.413
1197.	0.405
1200.	0.398
1203.	0.392
1206.	0.384
1209.	0.378
1212.	0.369
1215.	0.361
1218.	0.353
1221.	0.347
1224.	0.338
1227.	0.332
1230.	0.324
1233.	0.318
1236.	0.311
1239.	0.307
1242.	0.27
1245.	0.269
1248.	0.267
1251.	0.265
1254.	0.268

Time (sec)	Displacement (ft)
1257.	0.264
1260.	0.258
1263.	0.25
1266.	0.243
1269.	0.239
1272.	0.179
1275.	0.173
1278.	0.171
1281.	0.167
1284.	0.167
1287.	0.165
1290.	0.165
1293.	0.163
1296.	0.163
1299.	0.161
1302.	0.163
1305.	0.163
1308.	0.156
1311.	0.15
1314.	0.144
1317.	0.099
1320.	0.095
1323.	0.091
1326.	0.089
1329.	0.089
1332.	0.087
1335.	0.085
1338.	0.085
1341.	0.083
1344.	0.086
1347.	0.082
1350.	0.078
1353.	0.072
1356.	0.066
1359.	0.06
1362.	0.057
1365.	0.051
1368.	0.047
1371.	0.041
1374.	0.035
1377.	0.031
1380.	0.027
1383.	0.02
1386.	0.016
1389.	0.01
1392.	0.004
1395.	0.

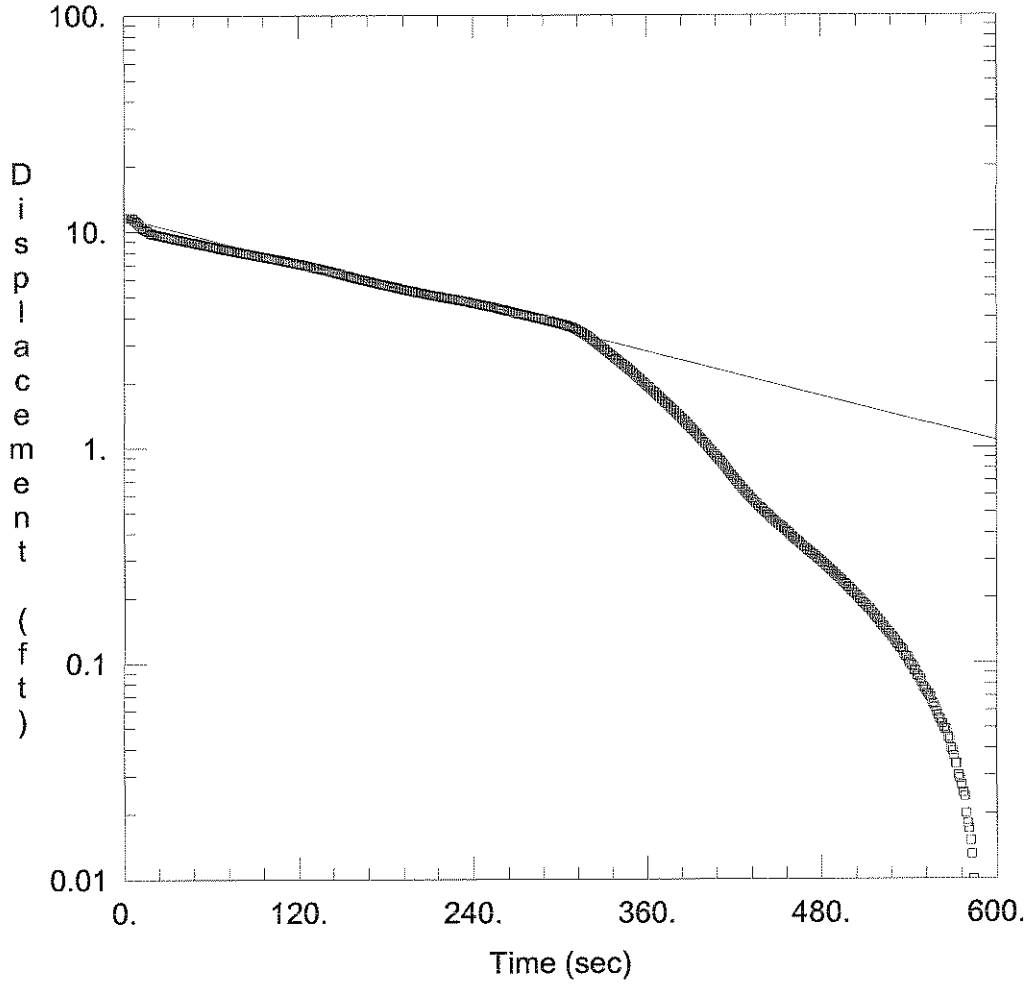
SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 2.392

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	2.022E-6	ft/sec
y0	13.01	ft



CITY OF DURHAM MSWLF MW-3R

Data Set: C:\...\MW-3R.aqt
Date: 07/30/08 Time: 16:52:47

PROJECT INFORMATION

Company: City of Durham MSWLF
Client: City of Durham MSWLF
Project: 1054-07-269
Location: Durham, NC
Test Well: MW-3R
Test Date: April 2008

AQUIFER DATA

Saturated Thickness: 25. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-3R)

Initial Displacement: 11.62 ft
Total Well Penetration Depth: 14.22 ft
Casing Radius: 0.083 ft
Static Water Column Height: 14.22 ft
Screen Length: 10. ft
Wellbore Radius: 0.3542 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 3.186E-6 ft/sec y0 = 11.65 ft

Data Set: C:\Documents and Settings\jpaul\Desktop\City of Durham Closed Landfill\Rising Head Tests may 200
Title: City of Durham MSWLF MW-3R
Date: 07/30/08
Time: 16:52:52

PROJECT INFORMATION

Company: City of Durham MSWLF
Client: City of Durham MSWLF
Project: 1054-07-269
Location: Durham, NC
Test Date: April 2008
Test Well: MW-3R

AQUIFER DATA

Saturated Thickness: 25. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-3R

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 11.62 ft
Static Water Column Height: 14.22 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.3542 ft
Well Skin Radius: 0.3542 ft
Screen Length: 10. ft
Total Well Penetration Depth: 14.22 ft

No. of Observations: 589

Observation Data

Time (sec)	Displacement (ft)
1.	11.62
2.	11.61
3.	11.61
4.	11.61
5.	11.61
6.	11.55
7.	11.38
8.	11.23
9.	11.08
10.	10.93
11.	10.72
12.	10.49
13.	10.36
14.	10.26
15.	10.17
16.	10.11
17.	10.04
18.	9.897
19.	9.839
20.	9.79
21.	9.746
22.	9.707
23.	9.666
24.	9.628
25.	9.599
26.	9.569
27.	9.54
28.	9.509

Time (sec)	Displacement (ft)
29.	9.477
30.	9.447
31.	9.418
32.	9.385
33.	9.355
34.	9.324
35.	9.294
36.	9.262
37.	9.228
38.	9.197
39.	9.17
40.	9.14
41.	9.109
42.	9.075
43.	9.044
44.	9.015
45.	8.988
46.	8.961
47.	8.936
48.	8.909
49.	8.881
50.	8.852
51.	8.824
52.	8.798
53.	8.767
54.	8.739
55.	8.711
56.	8.686
57.	8.66
58.	8.633
59.	8.608
60.	8.582
61.	8.557
62.	8.53
63.	8.504
64.	8.473
65.	8.441
66.	8.405
67.	8.37
68.	8.337
69.	8.31
70.	8.283
71.	8.257
72.	8.233
73.	8.21
74.	8.182
75.	8.157
76.	8.133
77.	8.107
78.	8.082
79.	8.058
80.	8.031
81.	8.007
82.	7.983
83.	7.961
84.	7.939
85.	7.917
86.	7.895
87.	7.872
88.	7.85
89.	7.827
90.	7.799
91.	7.779
92.	7.755
93.	7.733

Time (sec)	Displacement (ft)
94.	7.704
95.	7.684
96.	7.658
97.	7.638
98.	7.614
99.	7.593
100.	7.571
101.	7.549
102.	7.527
103.	7.502
104.	7.481
105.	7.459
106.	7.435
107.	7.41
108.	7.388
109.	7.359
110.	7.335
111.	7.313
112.	7.292
113.	7.27
114.	7.246
115.	7.223
116.	7.2
117.	7.178
118.	7.156
119.	7.134
120.	7.105
121.	7.088
122.	7.068
123.	7.039
124.	7.014
125.	6.988
126.	6.968
127.	6.944
128.	6.918
129.	6.893
130.	6.871
131.	6.847
132.	6.823
133.	6.799
134.	6.777
135.	6.752
136.	6.728
137.	6.706
138.	6.681
139.	6.653
140.	6.628
141.	6.602
142.	6.578
143.	6.551
144.	6.524
145.	6.499
146.	6.473
147.	6.446
148.	6.419
149.	6.393
150.	6.366
151.	6.34
152.	6.313
153.	6.284
154.	6.259
155.	6.23
156.	6.203
157.	6.175
158.	6.148

Time (sec)	Displacement (ft)
159.	6.123
160.	6.095
161.	6.073
162.	6.051
163.	6.027
164.	6.003
165.	5.983
166.	5.961
167.	5.941
168.	5.918
169.	5.898
170.	5.876
171.	5.854
172.	5.833
173.	5.809
174.	5.792
175.	5.772
176.	5.75
177.	5.729
178.	5.707
179.	5.685
180.	5.665
181.	5.641
182.	5.624
183.	5.604
184.	5.583
185.	5.564
186.	5.541
187.	5.524
188.	5.505
189.	5.486
190.	5.467
191.	5.449
192.	5.428
193.	5.408
194.	5.393
195.	5.374
196.	5.355
197.	5.338
198.	5.321
199.	5.303
200.	5.285
201.	5.267
202.	5.245
203.	5.233
204.	5.218
205.	5.197
206.	5.184
207.	5.167
208.	5.152
209.	5.129
210.	5.114
211.	5.097
212.	5.08
213.	5.067
214.	5.05
215.	5.038
216.	5.024
217.	5.007
218.	4.992
219.	4.98
220.	4.967
221.	4.953
222.	4.938
223.	4.924

Time (sec)	Displacement (ft)
224.	4.911
225.	4.897
226.	4.883
227.	4.87
228.	4.855
229.	4.841
230.	4.826
231.	4.812
232.	4.797
233.	4.783
234.	4.768
235.	4.754
236.	4.739
237.	4.722
238.	4.705
239.	4.69
240.	4.673
241.	4.659
242.	4.644
243.	4.628
244.	4.615
245.	4.598
246.	4.584
247.	4.569
248.	4.554
249.	4.538
250.	4.523
251.	4.508
252.	4.492
253.	4.477
254.	4.46
255.	4.441
256.	4.426
257.	4.409
258.	4.39
259.	4.371
260.	4.354
261.	4.337
262.	4.317
263.	4.303
264.	4.288
265.	4.271
266.	4.255
267.	4.24
268.	4.226
269.	4.204
270.	4.188
271.	4.171
272.	4.154
273.	4.139
274.	4.125
275.	4.108
276.	4.093
277.	4.079
278.	4.066
279.	4.05
280.	4.035
281.	4.021
282.	4.008
283.	3.992
284.	3.979
285.	3.963
286.	3.95
287.	3.936
288.	3.92

Time (sec)	Displacement (ft)
289.	3.907
290.	3.891
291.	3.876
292.	3.862
293.	3.847
294.	3.833
295.	3.818
296.	3.803
297.	3.787
298.	3.772
299.	3.758
300.	3.743
301.	3.729
302.	3.714
303.	3.699
304.	3.684
305.	3.661
306.	3.641
307.	3.62
308.	3.597
309.	3.575
310.	3.549
311.	3.523
312.	3.493
313.	3.455
314.	3.425
315.	3.394
316.	3.361
317.	3.329
318.	3.295
319.	3.259
320.	3.224
321.	3.186
322.	3.149
323.	3.111
324.	3.075
325.	3.038
326.	3.
327.	2.965
328.	2.929
329.	2.895
330.	2.859
331.	2.825
332.	2.791
333.	2.757
334.	2.723
335.	2.689
336.	2.655
337.	2.621
338.	2.588
339.	2.556
340.	2.526
341.	2.491
342.	2.459
343.	2.428
344.	2.398
345.	2.367
346.	2.336
347.	2.306
348.	2.277
349.	2.246
350.	2.215
351.	2.186
352.	2.157
353.	2.128

Time (sec)	Displacement (ft)
354.	2.101
355.	2.072
356.	2.045
357.	2.018
358.	1.99
359.	1.963
360.	1.936
361.	1.911
362.	1.883
363.	1.859
364.	1.832
365.	1.806
366.	1.781
367.	1.755
368.	1.73
369.	1.706
370.	1.682
371.	1.657
372.	1.634
373.	1.609
374.	1.585
375.	1.563
376.	1.539
377.	1.515
378.	1.493
379.	1.471
380.	1.447
381.	1.426
382.	1.402
383.	1.382
384.	1.36
385.	1.339
386.	1.319
387.	1.298
388.	1.278
389.	1.257
390.	1.237
391.	1.216
392.	1.198
393.	1.177
394.	1.158
395.	1.14
396.	1.119
397.	1.1
398.	1.082
399.	1.063
400.	1.046
401.	1.029
402.	1.012
403.	0.993
404.	0.976
405.	0.959
406.	0.942
407.	0.925
408.	0.908
409.	0.892
410.	0.877
411.	0.861
412.	0.844
413.	0.829
414.	0.814
415.	0.796
416.	0.781
417.	0.766
418.	0.75

Time (sec)	Displacement (ft)
419.	0.737
420.	0.721
421.	0.708
422.	0.692
423.	0.68
424.	0.669
425.	0.657
426.	0.643
427.	0.632
428.	0.622
429.	0.61
430.	0.6
431.	0.592
432.	0.581
433.	0.571
434.	0.563
435.	0.554
436.	0.545
437.	0.535
438.	0.528
439.	0.52
440.	0.513
441.	0.504
442.	0.497
443.	0.491
444.	0.484
445.	0.474
446.	0.468
447.	0.46
448.	0.455
449.	0.448
450.	0.443
451.	0.438
452.	0.431
453.	0.427
454.	0.422
455.	0.416
456.	0.41
457.	0.405
458.	0.4
459.	0.393
460.	0.386
461.	0.381
462.	0.376
463.	0.371
464.	0.366
465.	0.361
466.	0.357
467.	0.352
468.	0.347
469.	0.342
470.	0.337
471.	0.332
472.	0.328
473.	0.323
474.	0.32
475.	0.316
476.	0.311
477.	0.306
478.	0.303
479.	0.299
480.	0.294
481.	0.291
482.	0.286
483.	0.282

Time (sec)	Displacement (ft)
484.	0.279
485.	0.274
486.	0.27
487.	0.267
488.	0.263
489.	0.259
490.	0.255
491.	0.252
492.	0.248
493.	0.243
494.	0.24
495.	0.236
496.	0.233
497.	0.23
498.	0.225
499.	0.223
500.	0.218
501.	0.216
502.	0.211
503.	0.209
504.	0.206
505.	0.203
506.	0.199
507.	0.196
508.	0.191
509.	0.189
510.	0.186
511.	0.183
512.	0.179
513.	0.178
514.	0.174
515.	0.171
516.	0.167
517.	0.164
518.	0.161
519.	0.159
520.	0.156
521.	0.152
522.	0.149
523.	0.147
524.	0.144
525.	0.141
526.	0.139
527.	0.136
528.	0.134
529.	0.131
530.	0.129
531.	0.126
532.	0.122
533.	0.121
534.	0.117
535.	0.116
536.	0.114
537.	0.109
538.	0.107
539.	0.106
540.	0.102
541.	0.099
542.	0.097
543.	0.096
544.	0.092
545.	0.091
546.	0.087
547.	0.086
548.	0.084

Time (sec)	Displacement (ft)
549.	0.081
550.	0.077
551.	0.076
552.	0.074
553.	0.072
554.	0.071
555.	0.069
556.	0.065
557.	0.064
558.	0.062
559.	0.059
560.	0.057
561.	0.055
562.	0.054
563.	0.052
564.	0.05
565.	0.049
566.	0.049
567.	0.045
568.	0.044
569.	0.04
570.	0.039
571.	0.037
572.	0.034
573.	0.034
574.	0.03
575.	0.029
576.	0.027
577.	0.025
578.	0.024
579.	0.02
580.	0.018
581.	0.017
582.	0.015
583.	0.013
584.	0.01
585.	0.008
586.	0.007
587.	0.005
588.	0.003
589.	0.

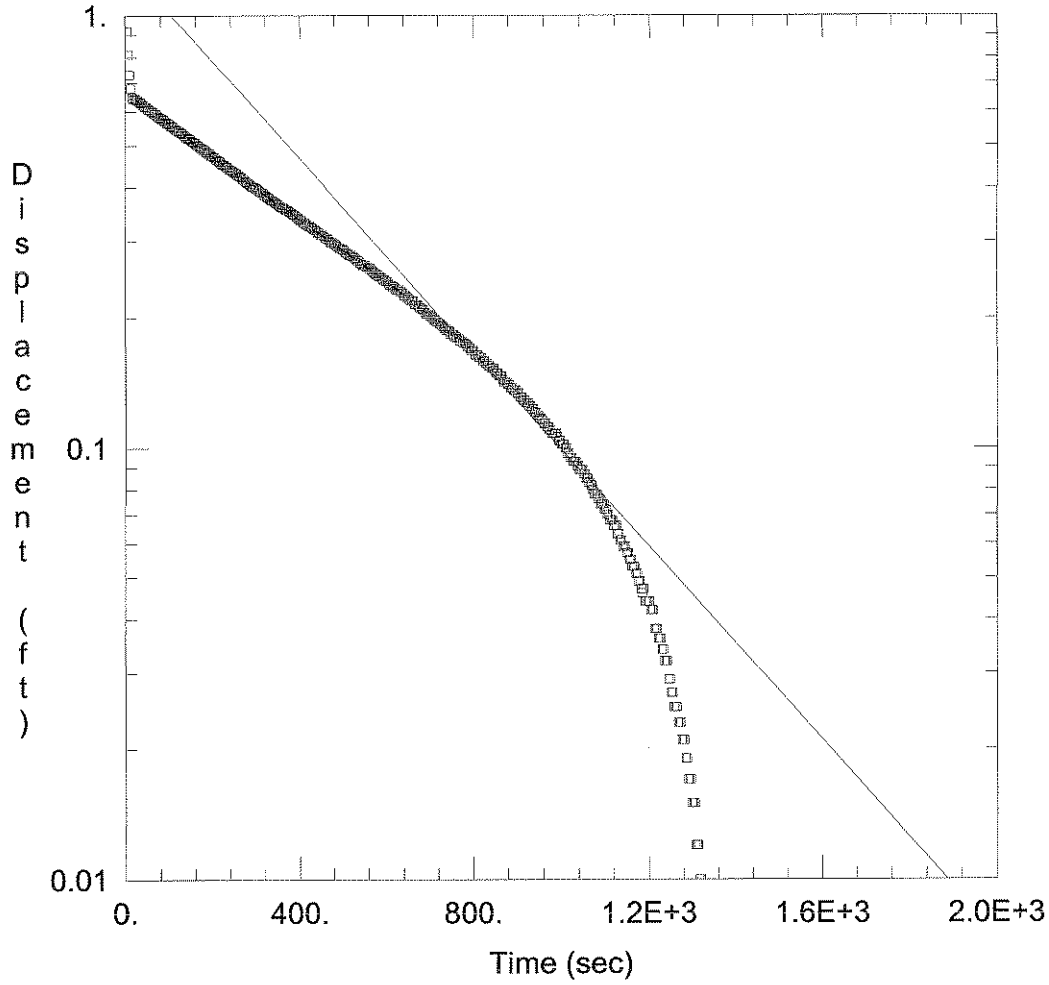
SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 2.329

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	3.186E-6	ft/sec
y0	11.65	ft



CITY OF DURHAM MSWLF MW-4R

Data Set: C:\...\MW-4R.aqt
Date: 07/30/08 Time: 16:54:44

PROJECT INFORMATION

Company: S&ME
Client: City of Durham MSWLF
Project: 1054-07-469
Location: Durham, NC
Test Well: MW-4R
Test Date: April 2008

AQUIFER DATA

Saturated Thickness: 25. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-4R)

Initial Displacement: 1.309 ft
Total Well Penetration Depth: 15.17 ft
Casing Radius: 0.083 ft
Static Water Column Height: 15.17 ft
Screen Length: 8.79 ft
Wellbore Radius: 0.3542 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 2.329E-6 ft/sec y0 = 1.308 ft

Data Set: C:\Documents and Settings\jpaul\Desktop\City of Durham Closed Landfill\Rising Head Tests may 200
Title: City of Durham MSWLF MW-4R
Date: 07/30/08
Time: 16:54:50

PROJECT INFORMATION

Company: S&ME
Client: City of Durham MSWLF
Project: 1054-07-469
Location: Durham, NC
Test Date: April 2008
Test Well: MW-4R

AQUIFER DATA

Saturated Thickness: 25. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-4R

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.309 ft
Static Water Column Height: 15.17 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.3542 ft
Well Skin Radius: 0.3542 ft
Screen Length: 8.79 ft
Total Well Penetration Depth: 15.17 ft

No. of Observations: 452

Observation Data

Time (sec)	Displacement (ft)
3.	0.921
6.	0.811
9.	0.73
12.	0.678
15.	0.647
18.	0.64
21.	0.644
24.	0.64
27.	0.638
30.	0.634
33.	0.632
36.	0.628
39.	0.624
42.	0.62
45.	0.616
48.	0.614
51.	0.61
54.	0.606
57.	0.604
60.	0.6
63.	0.598
66.	0.593
69.	0.592
72.	0.587
75.	0.583
78.	0.581
81.	0.579
84.	0.575

Time (sec)	Displacement (ft)
87.	0.573
90.	0.569
93.	0.565
96.	0.563
99.	0.561
102.	0.557
105.	0.555
108.	0.553
111.	0.549
114.	0.545
117.	0.543
120.	0.541
123.	0.537
126.	0.535
129.	0.533
132.	0.529
135.	0.527
138.	0.523
141.	0.521
144.	0.519
147.	0.517
150.	0.513
153.	0.511
156.	0.509
159.	0.507
162.	0.503
165.	0.501
168.	0.499
171.	0.495
174.	0.493
177.	0.49
180.	0.489
183.	0.484
186.	0.483
189.	0.48
192.	0.479
195.	0.475
198.	0.473
201.	0.471
204.	0.469
207.	0.465
210.	0.463
213.	0.461
216.	0.459
219.	0.455
222.	0.453
225.	0.451
228.	0.449
231.	0.447
234.	0.445
237.	0.441
240.	0.439
243.	0.437
246.	0.435
249.	0.433
252.	0.431
255.	0.428
258.	0.426
261.	0.424
264.	0.422
267.	0.418
270.	0.418
273.	0.414
276.	0.412
279.	0.41

Time (sec)	Displacement (ft)
282.	0.408
285.	0.406
288.	0.404
291.	0.402
294.	0.401
297.	0.399
300.	0.397
303.	0.395
306.	0.393
309.	0.391
312.	0.389
315.	0.389
318.	0.385
321.	0.383
324.	0.381
327.	0.379
330.	0.377
333.	0.375
336.	0.373
339.	0.373
342.	0.371
345.	0.369
348.	0.367
351.	0.365
354.	0.363
357.	0.361
360.	0.359
363.	0.359
366.	0.357
369.	0.355
372.	0.355
375.	0.353
378.	0.351
381.	0.349
384.	0.347
387.	0.345
390.	0.345
393.	0.343
396.	0.34
399.	0.338
402.	0.336
405.	0.336
408.	0.332
411.	0.332
414.	0.33
417.	0.328
420.	0.326
423.	0.326
426.	0.324
429.	0.322
432.	0.32
435.	0.32
438.	0.318
441.	0.315
444.	0.315
447.	0.311
450.	0.311
453.	0.311
456.	0.309
459.	0.307
462.	0.305
465.	0.305
468.	0.303
471.	0.3
474.	0.298

Time (sec)	Displacement (ft)
477.	0.298
480.	0.296
483.	0.296
486.	0.294
489.	0.292
492.	0.29
495.	0.29
498.	0.288
501.	0.288
504.	0.286
507.	0.283
510.	0.283
513.	0.281
516.	0.279
519.	0.279
522.	0.277
525.	0.277
528.	0.275
531.	0.273
534.	0.271
537.	0.271
540.	0.268
543.	0.266
546.	0.264
549.	0.264
552.	0.264
555.	0.262
558.	0.262
561.	0.26
564.	0.26
567.	0.258
570.	0.256
573.	0.255
576.	0.253
579.	0.251
582.	0.251
585.	0.249
588.	0.249
591.	0.247
594.	0.245
597.	0.245
600.	0.243
603.	0.243
606.	0.24
609.	0.238
612.	0.238
615.	0.236
618.	0.236
621.	0.234
624.	0.232
627.	0.232
630.	0.232
633.	0.23
636.	0.23
639.	0.228
642.	0.225
645.	0.225
648.	0.223
651.	0.223
654.	0.221
657.	0.219
660.	0.219
663.	0.219
666.	0.215
669.	0.215

Time (sec)	Displacement (ft)
672.	0.215
675.	0.213
678.	0.211
681.	0.211
684.	0.209
687.	0.209
690.	0.206
693.	0.204
696.	0.204
699.	0.204
702.	0.202
705.	0.202
708.	0.2
711.	0.198
714.	0.198
717.	0.196
720.	0.196
723.	0.194
726.	0.194
729.	0.192
732.	0.191
735.	0.189
738.	0.189
741.	0.187
744.	0.187
747.	0.187
750.	0.183
753.	0.183
756.	0.183
759.	0.181
762.	0.181
765.	0.179
768.	0.179
771.	0.177
774.	0.177
777.	0.175
780.	0.175
783.	0.174
786.	0.172
789.	0.172
792.	0.17
795.	0.168
798.	0.168
801.	0.168
804.	0.164
807.	0.164
810.	0.164
813.	0.162
816.	0.162
819.	0.162
822.	0.159
825.	0.159
828.	0.157
831.	0.157
834.	0.155
837.	0.155
840.	0.153
843.	0.153
846.	0.153
849.	0.151
852.	0.149
855.	0.149
858.	0.147
861.	0.147
864.	0.147

Time (sec)	Displacement (ft)
867.	0.144
870.	0.142
873.	0.142
876.	0.142
879.	0.14
882.	0.14
885.	0.138
888.	0.138
891.	0.136
894.	0.136
897.	0.136
900.	0.134
903.	0.134
906.	0.131
909.	0.131
912.	0.129
915.	0.129
918.	0.127
921.	0.127
924.	0.127
927.	0.125
930.	0.125
933.	0.123
936.	0.123
939.	0.121
942.	0.121
945.	0.119
948.	0.119
951.	0.117
954.	0.117
957.	0.116
960.	0.114
963.	0.114
966.	0.112
969.	0.112
972.	0.11
975.	0.11
978.	0.108
981.	0.108
984.	0.108
987.	0.108
990.	0.106
993.	0.104
996.	0.104
999.	0.102
1002.	0.102
1005.	0.102
1008.	0.1
1011.	0.1
1014.	0.097
1017.	0.097
1020.	0.095
1023.	0.095
1026.	0.093
1029.	0.093
1032.	0.093
1035.	0.091
1038.	0.091
1041.	0.089
1044.	0.089
1047.	0.089
1050.	0.087
1053.	0.087
1056.	0.085
1059.	0.085

Time (sec)	Displacement (ft)
1062.	0.083
1065.	0.083
1068.	0.082
1071.	0.08
1074.	0.078
1077.	0.078
1080.	0.078
1083.	0.076
1086.	0.076
1089.	0.074
1092.	0.074
1095.	0.074
1098.	0.072
1101.	0.072
1104.	0.07
1107.	0.07
1110.	0.068
1113.	0.068
1116.	0.068
1119.	0.066
1122.	0.066
1125.	0.066
1128.	0.063
1131.	0.063
1134.	0.061
1137.	0.061
1140.	0.059
1143.	0.059
1146.	0.059
1149.	0.057
1152.	0.057
1155.	0.055
1158.	0.055
1161.	0.053
1164.	0.053
1167.	0.053
1170.	0.051
1173.	0.051
1176.	0.049
1179.	0.049
1182.	0.047
1185.	0.046
1188.	0.047
1191.	0.044
1194.	0.044
1197.	0.044
1200.	0.044
1203.	0.042
1206.	0.042
1209.	0.042
1212.	0.038
1215.	0.038
1218.	0.038
1221.	0.036
1224.	0.036
1227.	0.036
1230.	0.034
1233.	0.034
1236.	0.032
1239.	0.032
1242.	0.032
1245.	0.029
1248.	0.029
1251.	0.027
1254.	0.027

Time (sec)	Displacement (ft)
1257.	0.025
1260.	0.025
1263.	0.025
1266.	0.023
1269.	0.023
1272.	0.023
1275.	0.021
1278.	0.021
1281.	0.021
1284.	0.019
1287.	0.019
1290.	0.017
1293.	0.017
1296.	0.017
1299.	0.015
1302.	0.015
1305.	0.015
1308.	0.012
1311.	0.012
1314.	0.012
1317.	0.01
1320.	0.01
1323.	0.008
1326.	0.008
1329.	0.008
1332.	0.006
1335.	0.006
1338.	0.004
1341.	0.004
1344.	0.004
1347.	0.002
1350.	0.002
1353.	0.
1356.	0.

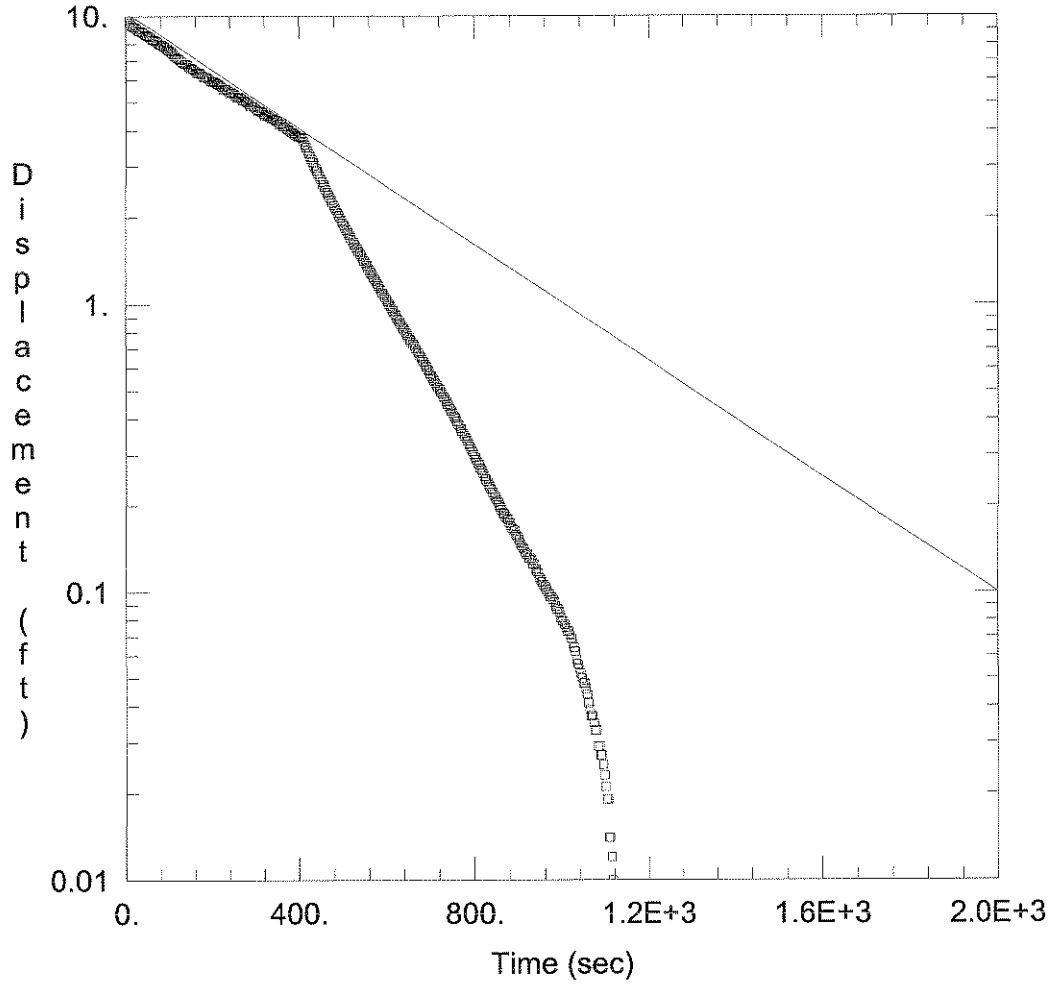
SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 2.303

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	2.329E-6	ft/sec
y0	1.308	ft



CITY OF DURHAM MSWLF MW-5

Data Set: C:\...\MW-5.aqt
Date: 07/30/08 Time: 16:55:03

PROJECT INFORMATION

Company: City of Durham MSWLF
Client: City of Durham MSWLF
Project: 1054-07-469
Location: Durham, NC
Test Well: MW-5
Test Date: April 2008

AQUIFER DATA

Saturated Thickness: 25. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-5)

Initial Displacement: 10.34 ft
Total Well Penetration Depth: 13.73 ft
Casing Radius: 0.083 ft
Static Water Column Height: 13.73 ft
Screen Length: 10. ft
Wellbore Radius: 0.3542 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 1.846E-6 ft/sec y0 = 10.3 ft

Data Set: C:\Documents and Settings\jpaul\Desktop\City of Durham Closed Landfill\Rising Head Tests may 200
Title: City of Durham MSWLF MW-5
Date: 07/30/08
Time: 16:55:07

PROJECT INFORMATION

Company: City of Durham MSWLF
Client: City of Durham MSWLF
Project: 1054-07-469
Location: Durham, NC
Test Date: April 2008
Test Well: MW-5

AQUIFER DATA

Saturated Thickness: 25. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-5

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 10.34 ft
Static Water Column Height: 13.73 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.3542 ft
Well Skin Radius: 0.3542 ft
Screen Length: 10. ft
Total Well Penetration Depth: 13.73 ft

No. of Observations: 379

Observation Data

Time (sec)	Displacement (ft)
3.	9.992
6.	9.711
9.	9.498
12.	9.337
15.	9.234
18.	9.19
21.	9.128
24.	9.042
27.	8.948
30.	8.885
33.	8.856
36.	8.829
39.	8.767
42.	8.665
45.	8.587
48.	8.564
51.	8.532
54.	8.468
57.	8.372
60.	8.296
63.	8.261
66.	8.242
69.	8.182
72.	8.103
75.	8.009
78.	7.956
81.	7.957
84.	7.907

Time (sec)	Displacement (ft)
87.	7.85
90.	7.797
93.	7.714
96.	7.628
99.	7.593
102.	7.544
105.	7.469
108.	7.378
111.	7.27
114.	7.195
117.	7.142
120.	7.098
123.	7.055
126.	6.963
129.	6.882
132.	6.848
135.	6.844
138.	6.8
141.	6.742
144.	6.659
147.	6.594
150.	6.598
153.	6.571
156.	6.531
159.	6.458
162.	6.384
165.	6.354
168.	6.369
171.	6.329
174.	6.285
177.	6.209
180.	6.146
183.	6.148
186.	6.14
189.	6.102
192.	6.046
195.	5.978
198.	5.92
201.	5.946
204.	5.915
207.	5.878
210.	5.834
213.	5.799
216.	5.768
219.	5.737
222.	5.679
225.	5.579
228.	5.569
231.	5.587
234.	5.55
237.	5.492
240.	5.409
243.	5.44
246.	5.411
249.	5.376
252.	5.308
255.	5.243
258.	5.218
261.	5.237
264.	5.204
267.	5.158
270.	5.096
273.	5.092
276.	5.067
279.	5.036

Time (sec)	Displacement (ft)
282.	5.003
285.	4.941
288.	4.862
291.	4.868
294.	4.868
297.	4.837
300.	4.775
303.	4.726
306.	4.672
309.	4.705
312.	4.674
315.	4.641
318.	4.577
321.	4.511
324.	4.548
327.	4.523
330.	4.492
333.	4.446
336.	4.411
339.	4.411
342.	4.386
345.	4.362
348.	4.337
351.	4.291
354.	4.211
357.	4.244
360.	4.229
363.	4.147
366.	4.126
369.	4.12
372.	4.064
375.	4.035
378.	4.008
381.	3.975
384.	3.94
387.	3.911
390.	3.89
393.	3.855
396.	3.837
399.	3.806
402.	3.795
405.	3.783
408.	3.76
411.	3.676
414.	3.582
417.	3.496
420.	3.411
423.	3.33
426.	3.254
429.	3.179
432.	3.107
435.	3.035
438.	2.971
441.	2.902
444.	2.84
447.	2.78
450.	2.719
453.	2.661
456.	2.603
459.	2.551
462.	2.495
465.	2.444
468.	2.394
471.	2.347
474.	2.297

Time (sec)	Displacement (ft)
477.	2.249
480.	2.206
483.	2.159
486.	2.117
489.	2.074
492.	2.033
495.	1.993
498.	1.954
501.	1.915
504.	1.877
507.	1.842
510.	1.807
513.	1.77
516.	1.739
519.	1.704
522.	1.673
525.	1.642
528.	1.611
531.	1.58
534.	1.553
537.	1.522
540.	1.495
543.	1.468
546.	1.441
549.	1.415
552.	1.388
555.	1.363
558.	1.338
561.	1.313
564.	1.29
567.	1.266
570.	1.243
573.	1.222
576.	1.2
579.	1.179
582.	1.158
585.	1.138
588.	1.117
591.	1.096
594.	1.078
597.	1.059
600.	1.04
603.	1.022
606.	1.001
609.	0.985
612.	0.968
615.	0.952
618.	0.935
621.	0.917
624.	0.9
627.	0.886
630.	0.871
633.	0.855
636.	0.84
639.	0.826
642.	0.811
645.	0.797
648.	0.782
651.	0.768
654.	0.753
657.	0.741
660.	0.728
663.	0.716
666.	0.702
669.	0.689

Time (sec)	Displacement (ft)
672.	0.679
675.	0.664
678.	0.654
681.	0.644
684.	0.631
687.	0.619
690.	0.608
693.	0.596
696.	0.588
699.	0.575
702.	0.565
705.	0.555
708.	0.544
711.	0.534
714.	0.524
717.	0.515
720.	0.507
723.	0.497
726.	0.489
729.	0.478
732.	0.47
735.	0.46
738.	0.451
741.	0.443
744.	0.435
747.	0.426
750.	0.418
753.	0.41
756.	0.404
759.	0.393
762.	0.385
765.	0.379
768.	0.371
771.	0.363
774.	0.356
777.	0.35
780.	0.344
783.	0.336
786.	0.327
789.	0.321
792.	0.315
795.	0.309
798.	0.301
801.	0.295
804.	0.288
807.	0.282
810.	0.278
813.	0.27
816.	0.266
819.	0.259
822.	0.253
825.	0.247
828.	0.243
831.	0.237
834.	0.233
837.	0.228
840.	0.222
843.	0.218
846.	0.214
849.	0.21
852.	0.206
855.	0.201
858.	0.197
861.	0.193
864.	0.189

Time (sec)	Displacement (ft)
867.	0.187
870.	0.183
873.	0.181
876.	0.179
879.	0.174
882.	0.17
885.	0.166
888.	0.164
891.	0.164
894.	0.158
897.	0.156
900.	0.152
903.	0.148
906.	0.145
909.	0.143
912.	0.141
915.	0.137
918.	0.135
921.	0.135
924.	0.131
927.	0.131
930.	0.129
933.	0.125
936.	0.125
939.	0.12
942.	0.118
945.	0.116
948.	0.112
951.	0.11
954.	0.108
957.	0.106
960.	0.104
963.	0.102
966.	0.1
969.	0.098
972.	0.096
975.	0.096
978.	0.094
981.	0.092
984.	0.089
987.	0.087
990.	0.087
993.	0.085
996.	0.081
999.	0.079
1002.	0.079
1005.	0.077
1008.	0.075
1011.	0.073
1014.	0.073
1017.	0.071
1020.	0.069
1023.	0.066
1026.	0.064
1029.	0.062
1032.	0.058
1035.	0.056
1038.	0.054
1041.	0.052
1044.	0.05
1047.	0.048
1050.	0.048
1053.	0.046
1056.	0.044
1059.	0.041

Time (sec)	Displacement (ft)
1062.	0.039
1065.	0.037
1068.	0.037
1071.	0.035
1074.	0.033
1077.	0.033
1080.	0.029
1083.	0.029
1086.	0.027
1089.	0.027
1092.	0.025
1095.	0.023
1098.	0.021
1101.	0.019
1104.	0.019
1107.	0.014
1110.	0.014
1113.	0.012
1116.	0.01
1119.	0.008
1122.	0.006
1125.	0.006
1128.	0.004
1131.	0.002
1134.	0.002
1137.	0.

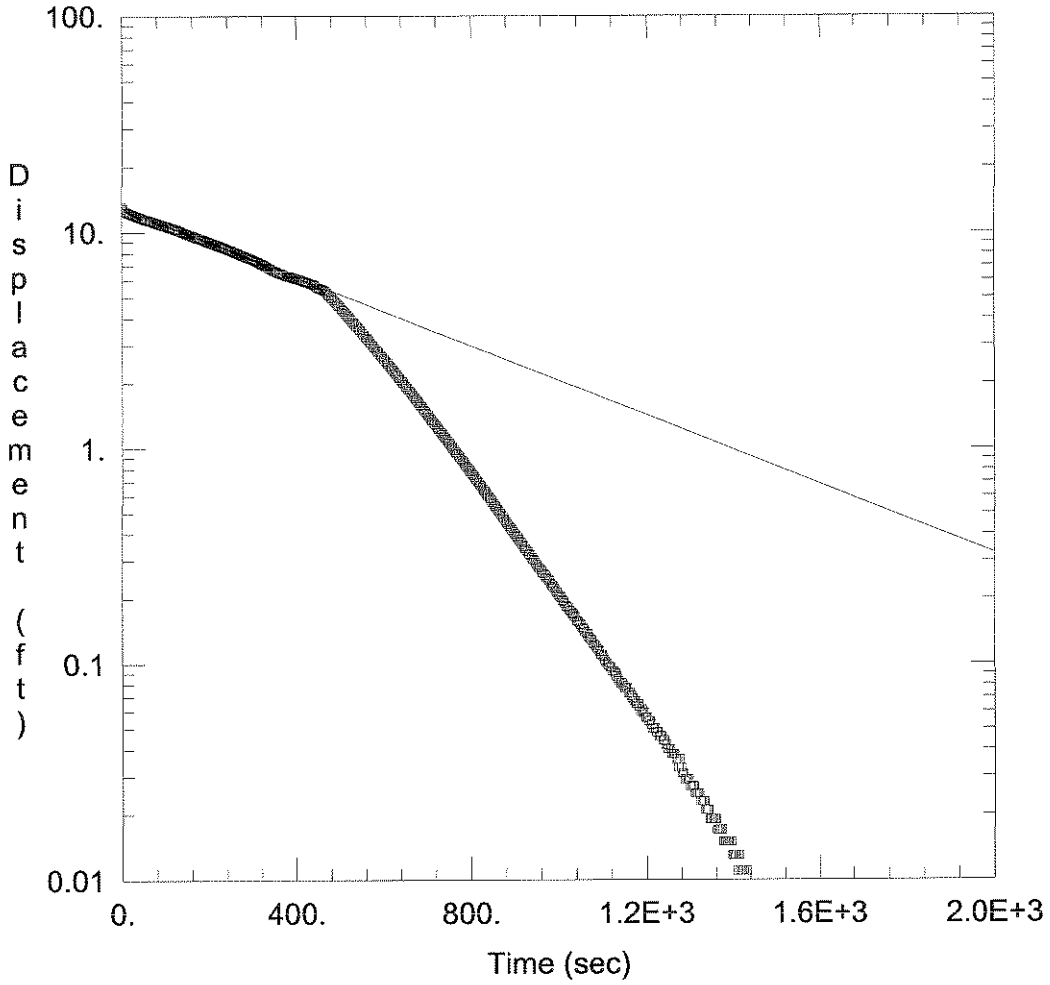
SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 2.31

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	1.846E-6	ft/sec
y0	10.3	ft



CITY OF DURHAM MSWLF MW-6R

Data Set: C:\...\MW-6R.aqt
Date: 07/30/08 Time: 16:55:18

PROJECT INFORMATION

Company: City of Durham MSWLF
Client: City of Durham
Project: 1054-07-469
Location: Durham, NC
Test Well: MW-6R
Test Date: April 2008

AQUIFER DATA

Saturated Thickness: 25. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-6R)

Initial Displacement: 13.08 ft
Total Well Penetration Depth: 15.42 ft
Casing Radius: 0.083 ft
Static Water Column Height: 15.42 ft
Screen Length: 10. ft
Wellbore Radius: 0.3542 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 1.506E-6 ft/sec
y0 = 12.99 ft

Data Set: C:\Documents and Settings\jpaul\Desktop\City of Durham Closed Landfill\Rising Head Tests may 200
Title: City of Durham MSWLF MW-6R
Date: 07/30/08
Time: 16:55:24

PROJECT INFORMATION

Company: City of Durham MSWLF
Client: City of Durham
Project: 1054-07-469
Location: Durham, NC
Test Date: April 2008
Test Well: MW-6R

AQUIFER DATA

Saturated Thickness: 25. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-6R

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 13.08 ft
Static Water Column Height: 15.42 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.3542 ft
Well Skin Radius: 0.3542 ft
Screen Length: 10. ft
Total Well Penetration Depth: 15.42 ft

No. of Observations: 510

Observation Data

Time (sec)	Displacement (ft)
3.	12.85
6.	12.65
9.	12.5
12.	12.39
15.	12.31
18.	12.24
21.	12.18
24.	12.09
27.	12.
30.	11.94
33.	11.89
36.	11.83
39.	11.77
42.	11.71
45.	11.66
48.	11.6
51.	11.54
54.	11.49
57.	11.44
60.	11.39
63.	11.33
66.	11.28
69.	11.23
72.	11.18
75.	11.13
78.	11.08
81.	11.03
84.	10.98

Time (sec)	Displacement (ft)
87.	10.93
90.	10.88
93.	10.83
96.	10.78
99.	10.73
102.	10.68
105.	10.63
108.	10.58
111.	10.53
114.	10.48
117.	10.42
120.	10.37
123.	10.32
126.	10.26
129.	10.2
132.	10.14
135.	10.08
138.	10.03
141.	9.97
144.	9.914
147.	9.858
150.	9.806
153.	9.752
156.	9.703
159.	9.653
162.	9.603
165.	9.554
168.	9.504
171.	9.456
174.	9.407
177.	9.359
180.	9.312
183.	9.262
186.	9.216
189.	9.169
192.	9.121
195.	9.074
198.	9.026
201.	8.98
204.	8.935
207.	8.887
210.	8.84
213.	8.794
216.	8.749
219.	8.703
222.	8.66
225.	8.612
228.	8.569
231.	8.525
234.	8.48
237.	8.432
240.	8.382
243.	8.337
246.	8.289
249.	8.237
252.	8.188
255.	8.138
258.	8.091
261.	8.043
264.	7.995
267.	7.948
270.	7.902
273.	7.859
276.	7.813
279.	7.772

Time (sec)	Displacement (ft)
282.	7.729
285.	7.687
288.	7.644
291.	7.6
294.	7.557
297.	7.513
300.	7.466
303.	7.42
306.	7.375
309.	7.329
312.	7.279
315.	7.226
318.	7.176
321.	7.122
324.	7.068
327.	7.017
330.	6.965
333.	6.911
336.	6.857
339.	6.806
342.	6.756
345.	6.709
348.	6.663
351.	6.62
354.	6.578
357.	6.537
360.	6.502
363.	6.467
366.	6.431
369.	6.4
372.	6.369
375.	6.34
378.	6.309
381.	6.282
384.	6.253
387.	6.226
390.	6.199
393.	6.173
396.	6.146
399.	6.119
402.	6.09
405.	6.063
408.	6.036
411.	6.007
414.	5.978
417.	5.951
420.	5.925
423.	5.895
426.	5.869
429.	5.842
432.	5.813
435.	5.782
438.	5.753
441.	5.716
444.	5.664
447.	5.596
450.	5.534
453.	5.494
456.	5.478
459.	5.451
462.	5.416
465.	5.376
468.	5.321
471.	5.252
474.	5.17

Time (sec)	Displacement (ft)
477.	5.091
480.	5.012
483.	4.936
486.	4.859
489.	4.785
492.	4.71
495.	4.636
498.	4.564
501.	4.493
504.	4.421
507.	4.351
510.	4.282
513.	4.214
516.	4.146
519.	4.08
522.	4.015
525.	3.951
528.	3.887
531.	3.825
534.	3.763
537.	3.703
540.	3.643
543.	3.583
546.	3.525
549.	3.467
552.	3.412
555.	3.356
558.	3.3
561.	3.246
564.	3.192
567.	3.141
570.	3.087
573.	3.037
576.	2.986
579.	2.936
582.	2.886
585.	2.839
588.	2.791
591.	2.744
594.	2.698
597.	2.653
600.	2.605
603.	2.562
606.	2.518
609.	2.475
612.	2.431
615.	2.39
618.	2.349
621.	2.309
624.	2.268
627.	2.231
630.	2.192
633.	2.154
636.	2.117
639.	2.08
642.	2.043
645.	2.008
648.	1.972
651.	1.937
654.	1.904
657.	1.869
660.	1.836
663.	1.805
666.	1.772
669.	1.741

Time (sec)	Displacement (ft)
672.	1.71
675.	1.679
678.	1.65
681.	1.621
684.	1.59
687.	1.561
690.	1.534
693.	1.505
696.	1.478
699.	1.451
702.	1.426
705.	1.4
708.	1.373
711.	1.35
714.	1.323
717.	1.3
720.	1.275
723.	1.252
726.	1.23
729.	1.205
732.	1.184
735.	1.161
738.	1.141
741.	1.12
744.	1.099
747.	1.079
750.	1.058
753.	1.039
756.	1.019
759.	1.
762.	0.982
765.	0.963
768.	0.944
771.	0.928
774.	0.909
777.	0.892
780.	0.876
783.	0.859
786.	0.843
789.	0.826
792.	0.812
795.	0.795
798.	0.781
801.	0.766
804.	0.752
807.	0.737
810.	0.723
813.	0.71
816.	0.696
819.	0.681
822.	0.669
825.	0.657
828.	0.644
831.	0.632
834.	0.619
837.	0.607
840.	0.594
843.	0.584
846.	0.572
849.	0.561
852.	0.551
855.	0.541
858.	0.528
861.	0.518
864.	0.51

Time (sec)	Displacement (ft)
867.	0.499
870.	0.489
873.	0.481
876.	0.47
879.	0.46
882.	0.452
885.	0.443
888.	0.435
891.	0.427
894.	0.419
897.	0.41
900.	0.402
903.	0.394
906.	0.388
909.	0.379
912.	0.371
915.	0.365
918.	0.356
921.	0.35
924.	0.342
927.	0.336
930.	0.332
933.	0.323
936.	0.319
939.	0.311
942.	0.305
945.	0.301
948.	0.294
951.	0.288
954.	0.282
957.	0.278
960.	0.272
963.	0.265
966.	0.261
969.	0.257
972.	0.251
975.	0.247
978.	0.243
981.	0.236
984.	0.232
987.	0.228
990.	0.224
993.	0.218
996.	0.214
999.	0.209
1002.	0.206
1005.	0.203
1008.	0.197
1011.	0.195
1014.	0.191
1017.	0.185
1020.	0.183
1023.	0.178
1026.	0.176
1029.	0.172
1032.	0.17
1035.	0.166
1038.	0.164
1041.	0.158
1044.	0.156
1047.	0.154
1050.	0.152
1053.	0.147
1056.	0.145
1059.	0.141

Time (sec)	Displacement (ft)
1062.	0.139
1065.	0.137
1068.	0.133
1071.	0.131
1074.	0.129
1077.	0.125
1080.	0.123
1083.	0.121
1086.	0.118
1089.	0.116
1092.	0.114
1095.	0.11
1098.	0.11
1101.	0.108
1104.	0.104
1107.	0.102
1110.	0.1
1113.	0.098
1116.	0.096
1119.	0.096
1122.	0.092
1125.	0.092
1128.	0.09
1131.	0.087
1134.	0.085
1137.	0.083
1140.	0.081
1143.	0.081
1146.	0.079
1149.	0.077
1152.	0.077
1155.	0.077
1158.	0.073
1161.	0.073
1164.	0.071
1167.	0.069
1170.	0.067
1173.	0.067
1176.	0.065
1179.	0.065
1182.	0.063
1185.	0.06
1188.	0.061
1191.	0.059
1194.	0.059
1197.	0.056
1200.	0.056
1203.	0.054
1206.	0.054
1209.	0.052
1212.	0.05
1215.	0.05
1218.	0.05
1221.	0.048
1224.	0.048
1227.	0.046
1230.	0.046
1233.	0.046
1236.	0.044
1239.	0.044
1242.	0.042
1245.	0.042
1248.	0.04
1251.	0.04
1254.	0.04

Time (sec)	Displacement (ft)
1257.	0.038
1260.	0.038
1263.	0.038
1266.	0.036
1269.	0.036
1272.	0.033
1275.	0.036
1278.	0.033
1281.	0.031
1284.	0.031
1287.	0.029
1290.	0.029
1293.	0.029
1296.	0.029
1299.	0.027
1302.	0.027
1305.	0.027
1308.	0.027
1311.	0.025
1314.	0.025
1317.	0.025
1320.	0.025
1323.	0.023
1326.	0.023
1329.	0.023
1332.	0.023
1335.	0.021
1338.	0.021
1341.	0.021
1344.	0.019
1347.	0.019
1350.	0.019
1353.	0.019
1356.	0.019
1359.	0.019
1362.	0.017
1365.	0.017
1368.	0.017
1371.	0.017
1374.	0.017
1377.	0.015
1380.	0.015
1383.	0.015
1386.	0.015
1389.	0.015
1392.	0.015
1395.	0.015
1398.	0.013
1401.	0.013
1404.	0.013
1407.	0.013
1410.	0.011
1413.	0.013
1416.	0.011
1419.	0.011
1422.	0.011
1425.	0.011
1428.	0.009
1431.	0.011
1434.	0.009
1437.	0.008
1440.	0.008
1443.	0.008
1446.	0.008
1449.	0.008

Time (sec)	Displacement (ft)
1452.	0.006
1455.	0.006
1458.	0.006
1461.	0.006
1464.	0.006
1467.	0.004
1470.	0.006
1473.	0.004
1476.	0.006
1479.	0.004
1482.	0.004
1485.	0.004
1488.	0.004
1491.	0.004
1494.	0.004
1497.	0.004
1500.	0.002
1503.	0.002
1506.	0.002
1509.	0.002
1512.	0.002
1515.	0.002
1518.	0.002
1521.	0.002
1524.	0.002
1527.	0.
1530.	0.

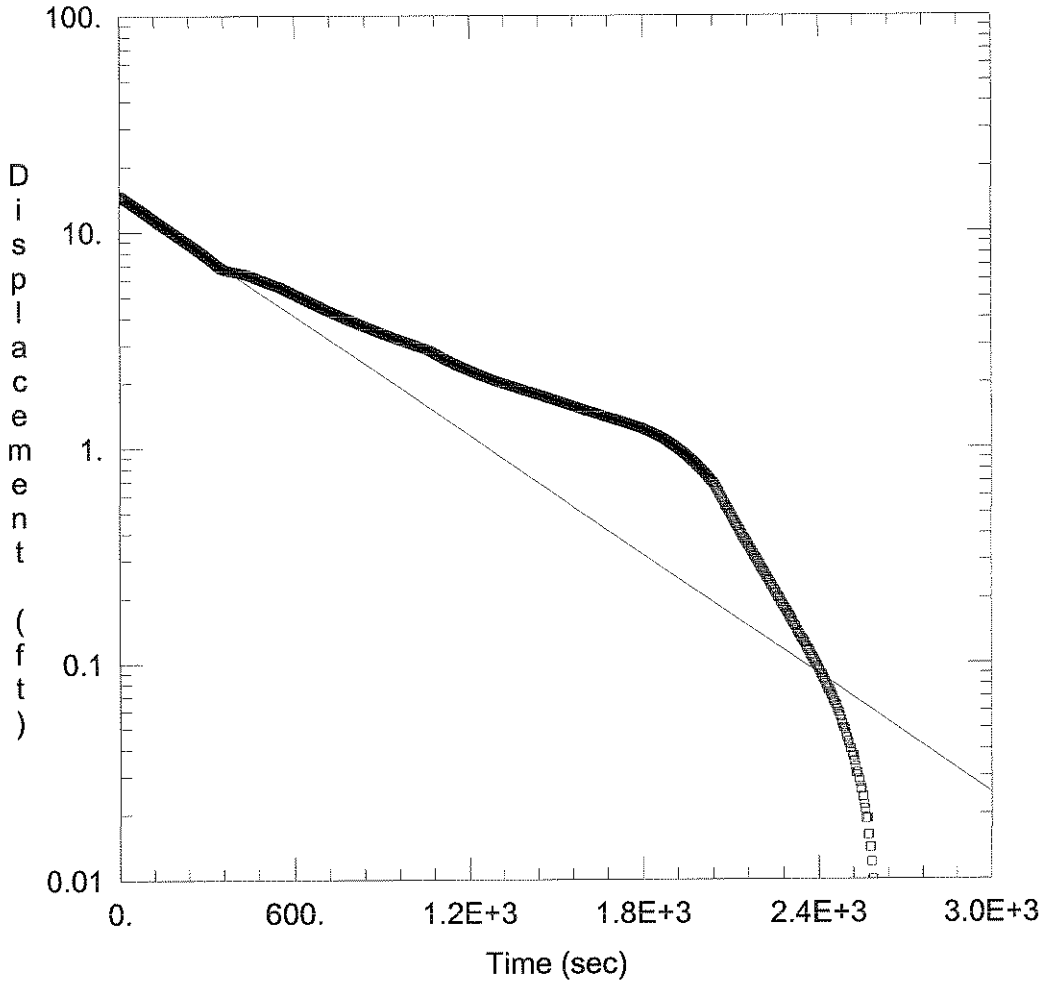
SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 2.373

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	1.506E-6	ft/sec
y0	12.99	ft



CITY OF DURHAM MSWLF MW-7R

Data Set: C:\...\MW-7R.aqt
Date: 07/30/08 Time: 16:55:33

PROJECT INFORMATION

Company: S&ME
Client: City of Durham MSWLF
Project: 1054-07-469
Location: Durham, NC
Test Well: MW-7R
Test Date: April 2008

AQUIFER DATA

Saturated Thickness: 25. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-7R)

Initial Displacement: 14.8 ft
Total Well Penetration Depth: 28.87 ft
Casing Radius: 0.083 ft
Static Water Column Height: 28.87 ft
Screen Length: 10. ft
Wellbore Radius: 0.3542 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 2.303E-6 ft/sec
y0 = 14.64 ft

Data Set: C:\Documents and Settings\jpaul\Desktop\City of Durham Closed Landfill\Rising Head Tests may 200
Title: City of Durham MSWLF MW-7R
Date: 07/30/08
Time: 16:55:40

PROJECT INFORMATION

Company: S&ME
Client: City of Durham MSWLF
Project: 1054-07-469
Location: Durham, NC
Test Date: April 2008
Test Well: MW-7R

AQUIFER DATA

Saturated Thickness: 25. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-7R

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 14.8 ft
Static Water Column Height: 28.87 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.3542 ft
Well Skin Radius: 0.3542 ft
Screen Length: 10. ft
Total Well Penetration Depth: 28.87 ft

No. of Observations: 872

Observation Data

Time (sec)	Displacement (ft)
3.	14.7
6.	14.61
9.	14.52
12.	14.43
15.	14.34
18.	14.25
21.	14.16
24.	14.08
27.	13.99
30.	13.9
33.	13.82
36.	13.73
39.	13.65
42.	13.56
45.	13.47
48.	13.38
51.	13.3
54.	13.21
57.	13.13
60.	13.04
63.	12.96
66.	12.88
69.	12.8
72.	12.72
75.	12.64
78.	12.56
81.	12.47
84.	12.4

Time (sec)	Displacement (ft)
87.	12.32
90.	12.24
93.	12.16
96.	12.07
99.	11.99
102.	11.91
105.	11.84
108.	11.76
111.	11.68
114.	11.59
117.	11.51
120.	11.44
123.	11.36
126.	11.29
129.	11.21
132.	11.14
135.	11.07
138.	10.99
141.	10.93
144.	10.85
147.	10.79
150.	10.72
153.	10.65
156.	10.58
159.	10.52
162.	10.45
165.	10.39
168.	10.32
171.	10.26
174.	10.2
177.	10.13
180.	10.07
183.	10.
186.	9.942
189.	9.878
192.	9.816
195.	9.754
198.	9.691
201.	9.629
204.	9.563
207.	9.501
210.	9.441
213.	9.379
216.	9.318
219.	9.26
222.	9.203
225.	9.146
228.	9.089
231.	9.034
234.	8.977
237.	8.922
240.	8.865
243.	8.809
246.	8.753
249.	8.697
252.	8.642
255.	8.587
258.	8.53
261.	8.476
264.	8.423
267.	8.368
270.	8.311
273.	8.255
276.	8.198
279.	8.138

Time (sec)	Displacement (ft)
282.	8.081
285.	8.023
288.	7.964
291.	7.908
294.	7.853
297.	7.799
300.	7.75
303.	7.696
306.	7.641
309.	7.586
312.	7.531
315.	7.475
318.	7.42
321.	7.365
324.	7.311
327.	7.258
330.	7.205
333.	7.152
336.	7.099
339.	7.045
342.	6.994
345.	6.944
348.	6.896
351.	6.853
354.	6.812
357.	6.776
360.	6.744
363.	6.719
366.	6.698
369.	6.677
372.	6.659
375.	6.644
378.	6.63
381.	6.616
384.	6.604
387.	6.591
390.	6.579
393.	6.567
396.	6.555
399.	6.542
402.	6.532
405.	6.519
408.	6.509
411.	6.498
414.	6.486
417.	6.475
420.	6.463
423.	6.451
426.	6.439
429.	6.426
432.	6.411
435.	6.392
438.	6.373
441.	6.354
444.	6.335
447.	6.319
450.	6.298
453.	6.279
456.	6.259
459.	6.238
462.	6.214
465.	6.19
468.	6.166
471.	6.139
474.	6.115

Time (sec)	Displacement (ft)
477.	6.091
480.	6.067
483.	6.043
486.	6.022
489.	5.997
492.	5.974
495.	5.952
498.	5.929
501.	5.912
504.	5.893
507.	5.874
510.	5.851
513.	5.831
516.	5.812
519.	5.791
522.	5.772
525.	5.751
528.	5.73
531.	5.71
534.	5.687
537.	5.668
540.	5.648
543.	5.627
546.	5.606
549.	5.584
552.	5.563
555.	5.541
558.	5.52
561.	5.493
564.	5.467
567.	5.441
570.	5.415
573.	5.388
576.	5.362
579.	5.338
582.	5.312
585.	5.286
588.	5.262
591.	5.238
594.	5.214
597.	5.19
600.	5.166
603.	5.143
606.	5.119
609.	5.097
612.	5.075
615.	5.052
618.	5.03
621.	5.008
624.	4.985
627.	4.963
630.	4.939
633.	4.916
636.	4.894
639.	4.871
642.	4.849
645.	4.825
648.	4.803
651.	4.78
654.	4.758
657.	4.736
660.	4.71
663.	4.687
666.	4.667
669.	4.643

Time (sec)	Displacement (ft)
672.	4.624
675.	4.601
678.	4.582
681.	4.562
684.	4.541
687.	4.521
690.	4.5
693.	4.481
696.	4.46
699.	4.44
702.	4.419
705.	4.4
708.	4.379
711.	4.359
714.	4.341
717.	4.323
720.	4.304
723.	4.286
726.	4.269
729.	4.252
732.	4.233
735.	4.216
738.	4.198
741.	4.183
744.	4.166
747.	4.149
750.	4.131
753.	4.114
756.	4.097
759.	4.081
762.	4.062
765.	4.047
768.	4.03
771.	4.012
774.	3.997
777.	3.981
780.	3.964
783.	3.949
786.	3.935
789.	3.918
792.	3.902
795.	3.887
798.	3.871
801.	3.856
804.	3.84
807.	3.824
810.	3.811
813.	3.794
816.	3.78
819.	3.764
822.	3.752
825.	3.737
828.	3.723
831.	3.709
834.	3.693
837.	3.681
840.	3.668
843.	3.654
846.	3.64
849.	3.626
852.	3.612
855.	3.598
858.	3.585
861.	3.573
864.	3.559

Time (sec)	Displacement (ft)
867.	3.545
870.	3.533
873.	3.521
876.	3.505
879.	3.492
882.	3.478
885.	3.466
888.	3.452
891.	3.438
894.	3.426
897.	3.414
900.	3.4
903.	3.388
906.	3.376
909.	3.364
912.	3.352
915.	3.338
918.	3.326
921.	3.316
924.	3.302
927.	3.291
930.	3.281
933.	3.269
936.	3.257
939.	3.246
942.	3.234
945.	3.224
948.	3.212
951.	3.202
954.	3.19
957.	3.179
960.	3.171
963.	3.158
966.	3.146
969.	3.138
972.	3.126
975.	3.115
978.	3.105
981.	3.096
984.	3.084
987.	3.075
990.	3.065
993.	3.055
996.	3.044
999.	3.034
1002.	3.024
1005.	3.015
1008.	3.005
1011.	2.994
1014.	2.984
1017.	2.975
1020.	2.967
1023.	2.958
1026.	2.948
1029.	2.939
1032.	2.93
1035.	2.921
1038.	2.911
1041.	2.902
1044.	2.894
1047.	2.885
1050.	2.875
1053.	2.866
1056.	2.858
1059.	2.847

Time (sec)	Displacement (ft)
1062.	2.834
1065.	2.818
1068.	2.803
1071.	2.787
1074.	2.772
1077.	2.756
1080.	2.742
1083.	2.729
1086.	2.713
1089.	2.699
1092.	2.686
1095.	2.672
1098.	2.657
1101.	2.644
1104.	2.631
1107.	2.617
1110.	2.607
1113.	2.593
1116.	2.579
1119.	2.567
1122.	2.555
1125.	2.543
1128.	2.531
1131.	2.519
1134.	2.507
1137.	2.495
1140.	2.483
1143.	2.472
1146.	2.462
1149.	2.452
1152.	2.44
1155.	2.429
1158.	2.419
1161.	2.409
1164.	2.398
1167.	2.386
1170.	2.378
1173.	2.369
1176.	2.359
1179.	2.35
1182.	2.34
1185.	2.331
1188.	2.321
1191.	2.312
1194.	2.302
1197.	2.293
1200.	2.284
1203.	2.276
1206.	2.267
1209.	2.259
1212.	2.25
1215.	2.241
1218.	2.233
1221.	2.224
1224.	2.217
1227.	2.208
1230.	2.2
1233.	2.191
1236.	2.184
1239.	2.176
1242.	2.169
1245.	2.16
1248.	2.153
1251.	2.145
1254.	2.138

Time (sec)	Displacement (ft)
1257.	2.129
1260.	2.122
1263.	2.115
1266.	2.108
1269.	2.101
1272.	2.094
1275.	2.086
1278.	2.081
1281.	2.074
1284.	2.065
1287.	2.06
1290.	2.051
1293.	2.044
1296.	2.037
1299.	2.03
1302.	2.024
1305.	2.018
1308.	2.011
1311.	2.006
1314.	1.999
1317.	1.994
1320.	1.989
1323.	1.982
1326.	1.975
1329.	1.97
1332.	1.965
1335.	1.958
1338.	1.952
1341.	1.946
1344.	1.939
1347.	1.933
1350.	1.928
1353.	1.922
1356.	1.916
1359.	1.911
1362.	1.906
1365.	1.899
1368.	1.894
1371.	1.887
1374.	1.883
1377.	1.878
1380.	1.871
1383.	1.868
1386.	1.861
1389.	1.855
1392.	1.85
1395.	1.845
1398.	1.84
1401.	1.835
1404.	1.83
1407.	1.824
1410.	1.819
1413.	1.814
1416.	1.809
1419.	1.804
1422.	1.799
1425.	1.791
1428.	1.788
1431.	1.783
1434.	1.778
1437.	1.772
1440.	1.767
1443.	1.762
1446.	1.757
1449.	1.75

Time (sec)	Displacement (ft)
1452.	1.745
1455.	1.74
1458.	1.734
1461.	1.727
1464.	1.722
1467.	1.719
1470.	1.712
1473.	1.707
1476.	1.702
1479.	1.696
1482.	1.691
1485.	1.686
1488.	1.681
1491.	1.675
1494.	1.67
1497.	1.665
1500.	1.662
1503.	1.656
1506.	1.651
1509.	1.646
1512.	1.641
1515.	1.637
1518.	1.632
1521.	1.625
1524.	1.622
1527.	1.617
1530.	1.611
1533.	1.606
1536.	1.601
1539.	1.596
1542.	1.591
1545.	1.586
1548.	1.581
1551.	1.575
1554.	1.57
1557.	1.567
1560.	1.562
1563.	1.556
1566.	1.551
1569.	1.548
1572.	1.542
1575.	1.537
1578.	1.532
1581.	1.527
1584.	1.523
1587.	1.518
1590.	1.513
1593.	1.508
1596.	1.503
1599.	1.499
1602.	1.494
1605.	1.49
1608.	1.485
1611.	1.48
1614.	1.476
1617.	1.471
1620.	1.468
1623.	1.463
1626.	1.459
1629.	1.456
1632.	1.451
1635.	1.447
1638.	1.444
1641.	1.437
1644.	1.433

Time (sec)	Displacement (ft)
1647.	1.43
1650.	1.426
1653.	1.421
1656.	1.418
1659.	1.413
1662.	1.409
1665.	1.404
1668.	1.4
1671.	1.397
1674.	1.392
1677.	1.39
1680.	1.387
1683.	1.38
1686.	1.376
1689.	1.373
1692.	1.369
1695.	1.366
1698.	1.362
1701.	1.357
1704.	1.354
1707.	1.349
1710.	1.347
1713.	1.342
1716.	1.336
1719.	1.333
1722.	1.329
1725.	1.324
1728.	1.323
1731.	1.317
1734.	1.314
1737.	1.309
1740.	1.305
1743.	1.302
1746.	1.298
1749.	1.293
1752.	1.29
1755.	1.286
1758.	1.281
1761.	1.277
1764.	1.274
1767.	1.269
1770.	1.266
1773.	1.26
1776.	1.257
1779.	1.252
1782.	1.248
1785.	1.245
1788.	1.241
1791.	1.236
1794.	1.233
1797.	1.228
1800.	1.222
1803.	1.217
1806.	1.214
1809.	1.209
1812.	1.203
1815.	1.198
1818.	1.195
1821.	1.19
1824.	1.184
1827.	1.179
1830.	1.174
1833.	1.169
1836.	1.164
1839.	1.158

Time (sec)	Displacement (ft)
1842.	1.153
1845.	1.148
1848.	1.143
1851.	1.136
1854.	1.131
1857.	1.126
1860.	1.121
1863.	1.114
1866.	1.109
1869.	1.102
1872.	1.097
1875.	1.091
1878.	1.085
1881.	1.079
1884.	1.071
1887.	1.064
1890.	1.057
1893.	1.05
1896.	1.045
1899.	1.037
1902.	1.03
1905.	1.024
1908.	1.018
1911.	1.011
1914.	1.002
1917.	0.995
1920.	0.988
1923.	0.982
1926.	0.975
1929.	0.968
1932.	0.961
1935.	0.952
1938.	0.947
1941.	0.939
1944.	0.932
1947.	0.925
1950.	0.916
1953.	0.909
1956.	0.903
1959.	0.896
1962.	0.887
1965.	0.88
1968.	0.873
1971.	0.865
1974.	0.858
1977.	0.849
1980.	0.841
1983.	0.832
1986.	0.825
1989.	0.817
1992.	0.81
1995.	0.801
1998.	0.795
2001.	0.786
2004.	0.777
2007.	0.771
2010.	0.762
2013.	0.755
2016.	0.747
2019.	0.74
2022.	0.731
2025.	0.722
2028.	0.716
2031.	0.707
2034.	0.7

Time (sec)	Displacement (ft)
2037.	0.693
2040.	0.685
2043.	0.676
2046.	0.668
2049.	0.657
2052.	0.647
2055.	0.635
2058.	0.625
2061.	0.613
2064.	0.603
2067.	0.592
2070.	0.582
2073.	0.572
2076.	0.562
2079.	0.553
2082.	0.543
2085.	0.536
2088.	0.527
2091.	0.521
2094.	0.512
2097.	0.503
2100.	0.495
2103.	0.488
2106.	0.478
2109.	0.469
2112.	0.462
2115.	0.455
2118.	0.447
2121.	0.44
2124.	0.431
2127.	0.425
2130.	0.417
2133.	0.411
2136.	0.402
2139.	0.397
2142.	0.39
2145.	0.383
2148.	0.378
2151.	0.373
2154.	0.366
2157.	0.359
2160.	0.356
2163.	0.349
2166.	0.342
2169.	0.339
2172.	0.332
2175.	0.327
2178.	0.322
2181.	0.315
2184.	0.311
2187.	0.306
2190.	0.301
2193.	0.296
2196.	0.291
2199.	0.287
2202.	0.282
2205.	0.277
2208.	0.273
2211.	0.268
2214.	0.265
2217.	0.26
2220.	0.255
2223.	0.251
2226.	0.248
2229.	0.244

Time (sec)	Displacement (ft)
2232.	0.241
2235.	0.236
2238.	0.23
2241.	0.229
2244.	0.224
2247.	0.22
2250.	0.217
2253.	0.213
2256.	0.21
2259.	0.206
2262.	0.203
2265.	0.201
2268.	0.198
2271.	0.192
2274.	0.191
2277.	0.187
2280.	0.184
2283.	0.181
2286.	0.179
2289.	0.175
2292.	0.173
2295.	0.17
2298.	0.167
2301.	0.165
2304.	0.162
2307.	0.16
2310.	0.156
2313.	0.154
2316.	0.151
2319.	0.149
2322.	0.148
2325.	0.144
2328.	0.141
2331.	0.139
2334.	0.137
2337.	0.135
2340.	0.132
2343.	0.13
2346.	0.129
2349.	0.127
2352.	0.125
2355.	0.124
2358.	0.12
2361.	0.118
2364.	0.116
2367.	0.115
2370.	0.113
2373.	0.11
2376.	0.108
2379.	0.106
2382.	0.104
2385.	0.103
2388.	0.101
2391.	0.099
2394.	0.097
2397.	0.096
2400.	0.094
2403.	0.092
2406.	0.089
2409.	0.089
2412.	0.087
2415.	0.085
2418.	0.084
2421.	0.082
2424.	0.08

Time (sec)	Displacement (ft)
2427.	0.078
2430.	0.076
2433.	0.075
2436.	0.075
2439.	0.073
2442.	0.071
2445.	0.07
2448.	0.068
2451.	0.066
2454.	0.066
2457.	0.064
2460.	0.063
2463.	0.061
2466.	0.059
2469.	0.059
2472.	0.057
2475.	0.056
2478.	0.054
2481.	0.052
2484.	0.05
2487.	0.05
2490.	0.049
2493.	0.047
2496.	0.045
2499.	0.043
2502.	0.043
2505.	0.042
2508.	0.04
2511.	0.04
2514.	0.038
2517.	0.037
2520.	0.037
2523.	0.035
2526.	0.033
2529.	0.031
2532.	0.031
2535.	0.031
2538.	0.029
2541.	0.028
2544.	0.026
2547.	0.026
2550.	0.024
2553.	0.024
2556.	0.022
2559.	0.021
2562.	0.019
2565.	0.019
2568.	0.019
2571.	0.016
2574.	0.016
2577.	0.014
2580.	0.014
2583.	0.012
2586.	0.01
2589.	0.01
2592.	0.008
2595.	0.007
2598.	0.007
2601.	0.005
2604.	0.003
2607.	0.003
2610.	0.003
2613.	0.001
2616.	0.

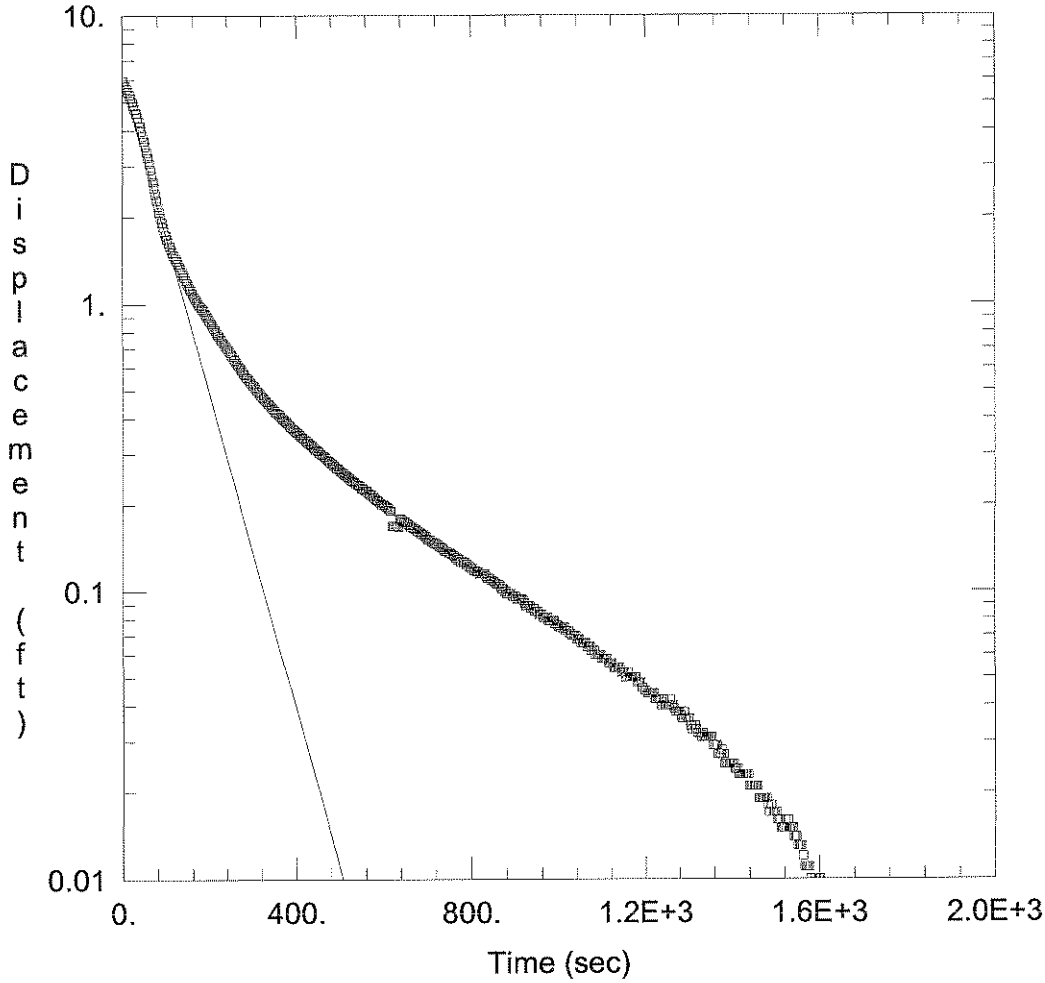
SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 3.147

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	2.303E-6	ft/sec
y0	14.64	ft



CITY OF DURHAM MSWLF MW-8

Data Set: C:\...\MW-8.aqt
Date: 07/30/08 Time: 16:55:47

PROJECT INFORMATION

Company: City of Durham MSWLF
Client: City of Durham MSWLF
Project: 1054-07-469
Location: Durham, NC
Test Well: MW-8
Test Date: April 2008

AQUIFER DATA

Saturated Thickness: 25. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-8)

Initial Displacement: 5.93 ft
Total Well Penetration Depth: 8.94 ft
Casing Radius: 0.083 ft
Static Water Column Height: 8.94 ft
Screen Length: 7.5 ft
Wellbore Radius: 0.3542 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 1.142E-5 ft/sec
y0 = 5.945 ft

Data Set: C:\Documents and Settings\jpaul\Desktop\City of Durham Closed Landfill\Rising Head Tests may 200
Title: City of Durham MSWLF MW-8
Date: 07/30/08
Time: 16:55:50

PROJECT INFORMATION

Company: City of Durham MSWLF
Client: City of Durham MSWLF
Project: 1054-07-469
Location: Durham, NC
Test Date: April 2008
Test Well: MW-8

AQUIFER DATA

Saturated Thickness: 25. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-8

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 5.93 ft
Static Water Column Height: 8.94 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.3542 ft
Well Skin Radius: 0.3542 ft
Screen Length: 7.5 ft
Total Well Penetration Depth: 8.94 ft

No. of Observations: 591

Observation Data

Time (sec)	Displacement (ft)
3.	5.812
6.	5.688
9.	5.564
12.	5.438
15.	5.311
18.	5.167
21.	5.016
24.	4.869
27.	4.727
30.	4.586
33.	4.435
36.	4.283
39.	4.135
42.	3.981
45.	3.823
48.	3.668
51.	3.514
54.	3.362
57.	3.213
60.	3.067
63.	2.926
66.	2.788
69.	2.656
72.	2.53
75.	2.406
78.	2.287
81.	2.18
84.	2.081

Time (sec)	Displacement (ft)
87.	1.995
90.	1.92
93.	1.851
96.	1.787
99.	1.73
102.	1.679
105.	1.632
108.	1.588
111.	1.549
114.	1.511
117.	1.474
120.	1.441
123.	1.409
126.	1.379
129.	1.35
132.	1.322
135.	1.293
138.	1.265
141.	1.237
144.	1.21
147.	1.185
150.	1.158
153.	1.135
156.	1.114
159.	1.093
162.	1.073
165.	1.054
168.	1.034
171.	1.016
174.	1.
177.	0.986
180.	0.973
183.	0.959
186.	0.943
189.	0.927
192.	0.915
195.	0.899
198.	0.883
201.	0.869
204.	0.854
207.	0.84
210.	0.825
213.	0.812
216.	0.798
219.	0.786
222.	0.773
225.	0.761
228.	0.749
231.	0.736
234.	0.726
237.	0.714
240.	0.701
243.	0.691
246.	0.68
249.	0.668
252.	0.658
255.	0.647
258.	0.638
261.	0.626
264.	0.617
267.	0.608
270.	0.6
273.	0.591
276.	0.582
279.	0.573

Time (sec)	Displacement (ft)
282.	0.567
285.	0.558
288.	0.551
291.	0.544
294.	0.537
297.	0.53
300.	0.523
303.	0.516
306.	0.509
309.	0.502
312.	0.496
315.	0.489
318.	0.483
321.	0.477
324.	0.472
327.	0.467
330.	0.46
333.	0.456
336.	0.451
339.	0.446
342.	0.44
345.	0.435
348.	0.43
351.	0.425
354.	0.42
357.	0.416
360.	0.413
363.	0.407
366.	0.404
369.	0.399
372.	0.395
375.	0.392
378.	0.388
381.	0.385
384.	0.379
387.	0.374
390.	0.371
393.	0.367
396.	0.364
399.	0.36
402.	0.357
405.	0.353
408.	0.351
411.	0.346
414.	0.343
417.	0.341
420.	0.336
423.	0.334
426.	0.33
429.	0.327
432.	0.325
435.	0.322
438.	0.318
441.	0.315
444.	0.311
447.	0.31
450.	0.308
453.	0.304
456.	0.301
459.	0.299
462.	0.296
465.	0.294
468.	0.291
471.	0.287
474.	0.285

Time (sec)	Displacement (ft)
477.	0.282
480.	0.28
483.	0.278
486.	0.275
489.	0.273
492.	0.269
495.	0.268
498.	0.266
501.	0.263
504.	0.261
507.	0.259
510.	0.257
513.	0.254
516.	0.252
519.	0.25
522.	0.248
525.	0.245
528.	0.243
531.	0.242
534.	0.24
537.	0.238
540.	0.236
543.	0.235
546.	0.233
549.	0.229
552.	0.229
555.	0.227
558.	0.224
561.	0.224
564.	0.222
567.	0.219
570.	0.217
573.	0.217
576.	0.214
579.	0.212
582.	0.21
585.	0.208
588.	0.207
591.	0.205
594.	0.203
597.	0.201
600.	0.201
603.	0.2
606.	0.198
609.	0.196
612.	0.194
615.	0.192
618.	0.191
621.	0.169
624.	0.169
627.	0.169
630.	0.169
633.	0.169
636.	0.168
639.	0.179
642.	0.179
645.	0.177
648.	0.175
651.	0.175
654.	0.174
657.	0.172
660.	0.17
663.	0.168
666.	0.168
669.	0.166

Time (sec)	Displacement (ft)
672.	0.165
675.	0.165
678.	0.163
681.	0.161
684.	0.161
687.	0.159
690.	0.158
693.	0.158
696.	0.156
699.	0.154
702.	0.152
705.	0.151
708.	0.151
711.	0.149
714.	0.149
717.	0.147
720.	0.147
723.	0.145
726.	0.145
729.	0.143
732.	0.142
735.	0.142
738.	0.14
741.	0.138
744.	0.138
747.	0.138
750.	0.136
753.	0.136
756.	0.135
759.	0.134
762.	0.133
765.	0.131
768.	0.131
771.	0.129
774.	0.129
777.	0.127
780.	0.127
783.	0.126
786.	0.126
789.	0.124
792.	0.124
795.	0.122
798.	0.122
801.	0.12
804.	0.12
807.	0.118
810.	0.118
813.	0.117
816.	0.117
819.	0.115
822.	0.115
825.	0.115
828.	0.115
831.	0.115
834.	0.113
837.	0.111
840.	0.111
843.	0.111
846.	0.109
849.	0.109
852.	0.108
855.	0.107
858.	0.106
861.	0.106
864.	0.106

Time (sec)	Displacement (ft)
867.	0.104
870.	0.102
873.	0.102
876.	0.1
879.	0.1
882.	0.098
885.	0.098
888.	0.098
891.	0.098
894.	0.096
897.	0.096
900.	0.096
903.	0.094
906.	0.094
909.	0.094
912.	0.094
915.	0.094
918.	0.093
921.	0.091
924.	0.089
927.	0.089
930.	0.089
933.	0.089
936.	0.087
939.	0.087
942.	0.087
945.	0.085
948.	0.085
951.	0.085
954.	0.083
957.	0.083
960.	0.083
963.	0.081
966.	0.081
969.	0.081
972.	0.081
975.	0.079
978.	0.079
981.	0.079
984.	0.079
987.	0.079
990.	0.077
993.	0.077
996.	0.076
999.	0.075
1002.	0.075
1005.	0.075
1008.	0.074
1011.	0.075
1014.	0.073
1017.	0.073
1020.	0.073
1023.	0.071
1026.	0.071
1029.	0.07
1032.	0.07
1035.	0.07
1038.	0.07
1041.	0.068
1044.	0.068
1047.	0.068
1050.	0.066
1053.	0.066
1056.	0.066
1059.	0.066

Time (sec)	Displacement (ft)
1062.	0.066
1065.	0.064
1068.	0.064
1071.	0.064
1074.	0.062
1077.	0.062
1080.	0.062
1083.	0.06
1086.	0.06
1089.	0.06
1092.	0.06
1095.	0.06
1098.	0.058
1101.	0.058
1104.	0.058
1107.	0.058
1110.	0.058
1113.	0.056
1116.	0.056
1119.	0.056
1122.	0.056
1125.	0.054
1128.	0.054
1131.	0.054
1134.	0.054
1137.	0.054
1140.	0.054
1143.	0.052
1146.	0.052
1149.	0.052
1152.	0.05
1155.	0.05
1158.	0.052
1161.	0.05
1164.	0.05
1167.	0.05
1170.	0.05
1173.	0.05
1176.	0.05
1179.	0.048
1182.	0.048
1185.	0.048
1188.	0.048
1191.	0.046
1194.	0.046
1197.	0.045
1200.	0.045
1203.	0.044
1206.	0.044
1209.	0.044
1212.	0.044
1215.	0.044
1218.	0.044
1221.	0.042
1224.	0.042
1227.	0.042
1230.	0.042
1233.	0.042
1236.	0.04
1239.	0.04
1242.	0.042
1245.	0.04
1248.	0.04
1251.	0.04
1254.	0.04

Time (sec)	Displacement (ft)
1257.	0.042
1260.	0.04
1263.	0.04
1266.	0.039
1269.	0.038
1272.	0.038
1275.	0.038
1278.	0.038
1281.	0.037
1284.	0.036
1287.	0.036
1290.	0.038
1293.	0.036
1296.	0.036
1299.	0.036
1302.	0.036
1305.	0.034
1308.	0.033
1311.	0.033
1314.	0.034
1317.	0.033
1320.	0.032
1323.	0.032
1326.	0.032
1329.	0.031
1332.	0.032
1335.	0.031
1338.	0.031
1341.	0.031
1344.	0.031
1347.	0.031
1350.	0.031
1353.	0.031
1356.	0.029
1359.	0.029
1362.	0.029
1365.	0.029
1368.	0.027
1371.	0.027
1374.	0.027
1377.	0.028
1380.	0.027
1383.	0.025
1386.	0.025
1389.	0.025
1392.	0.025
1395.	0.025
1398.	0.025
1401.	0.025
1404.	0.025
1407.	0.024
1410.	0.024
1413.	0.024
1416.	0.023
1419.	0.023
1422.	0.023
1425.	0.023
1428.	0.023
1431.	0.023
1434.	0.023
1437.	0.023
1440.	0.021
1443.	0.021
1446.	0.021
1449.	0.021

Time (sec)	Displacement (ft)
1452.	0.021
1455.	0.021
1458.	0.021
1461.	0.019
1464.	0.019
1467.	0.019
1470.	0.019
1473.	0.019
1476.	0.019
1479.	0.019
1482.	0.018
1485.	0.017
1488.	0.018
1491.	0.018
1494.	0.017
1497.	0.017
1500.	0.017
1503.	0.016
1506.	0.016
1509.	0.016
1512.	0.015
1515.	0.015
1518.	0.015
1521.	0.016
1524.	0.015
1527.	0.016
1530.	0.015
1533.	0.015
1536.	0.015
1539.	0.015
1542.	0.014
1545.	0.014
1548.	0.014
1551.	0.013
1554.	0.013
1557.	0.013
1560.	0.013
1563.	0.012
1566.	0.011
1569.	0.011
1572.	0.011
1575.	0.011
1578.	0.011
1581.	0.01
1584.	0.01
1587.	0.009
1590.	0.01
1593.	0.01
1596.	0.009
1599.	0.01
1602.	0.01
1605.	0.009
1608.	0.009
1611.	0.009
1614.	0.009
1617.	0.009
1620.	0.009
1623.	0.009
1626.	0.009
1629.	0.008
1632.	0.008
1635.	0.008
1638.	0.008
1641.	0.008
1644.	0.008

Time (sec)	Displacement (ft)
1647.	0.007
1650.	0.006
1653.	0.006
1656.	0.006
1659.	0.006
1662.	0.006
1665.	0.006
1668.	0.006
1671.	0.005
1674.	0.004
1677.	0.004
1680.	0.004
1683.	0.004
1686.	0.004
1689.	0.004
1692.	0.004
1695.	0.004
1698.	0.004
1701.	0.004
1704.	0.004
1707.	0.004
1710.	0.004
1713.	0.004
1716.	0.002
1719.	0.004
1722.	0.004
1725.	0.002
1728.	0.002
1731.	0.002
1734.	0.002
1737.	0.002
1740.	0.002
1743.	0.002
1746.	0.002
1749.	0.002
1752.	0.002
1755.	0.002
1758.	0.
1761.	0.002
1764.	0.002
1767.	0.
1770.	0.
1773.	0.

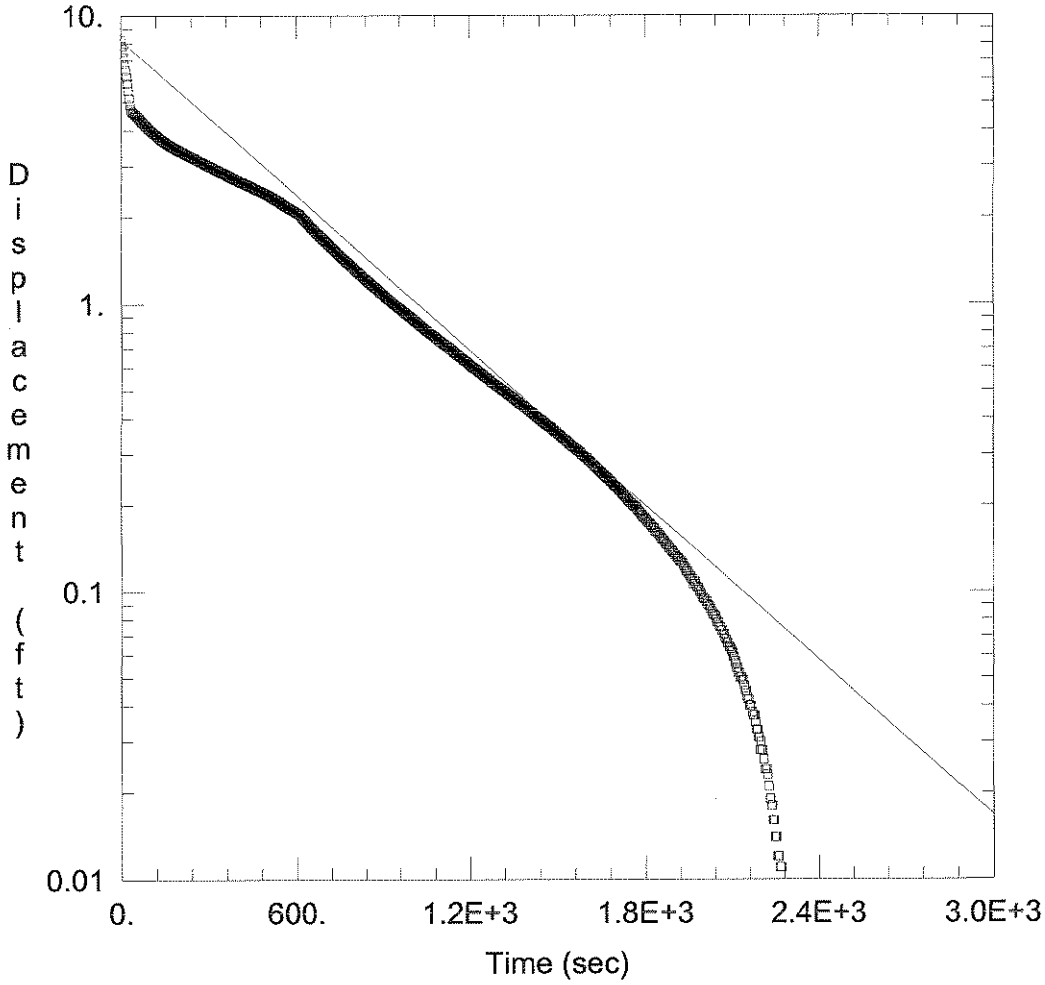
SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 1.977

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	1.142E-5	ft/sec
y0	5.945	ft



CITY OF DURHAM MSWLF MW-9R

Data Set: C:\...\MW-9R.aqt
Date: 07/30/08 Time: 16:56:02

PROJECT INFORMATION

Company: S&ME
Client: City of Durham MSWLF
Project: 1054-07-469
Location: Durham, NC
Test Well: MW-9R
Test Date: April 2008

AQUIFER DATA

Saturated Thickness: 25. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-9R)

Initial Displacement: 8.214 ft
Total Well Penetration Depth: 10.44 ft
Casing Radius: 0.083 ft
Static Water Column Height: 10.44 ft
Screen Length: 10. ft
Wellbore Radius: 0.3542 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 1.544E-6 ft/sec
y0 = 8.211 ft

Data Set: C:\Documents and Settings\jpaul\Desktop\City of Durham Closed Landfill\Rising Head Tests may 200
Title: City of Durham MSWLF MW-9R
Date: 07/30/08
Time: 16:56:05

PROJECT INFORMATION

Company: S&ME
Client: City of Durham MSWLF
Project: 1054-07-469
Location: Durham, NC
Test Date: April 2008
Test Well: MW-9R

AQUIFER DATA

Saturated Thickness: 25. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-9R

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 8.214 ft
Static Water Column Height: 10.44 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.3542 ft
Well Skin Radius: 0.3542 ft
Screen Length: 10. ft
Total Well Penetration Depth: 10.44 ft

No. of Observations: 768

Observation Data

Time (sec)	Displacement (ft)
3.	7.862
6.	7.508
9.	7.163
12.	6.819
15.	6.48
18.	6.146
21.	5.816
24.	5.489
27.	5.173
30.	4.905
33.	4.744
36.	4.671
39.	4.628
42.	4.596
45.	4.563
48.	4.529
51.	4.497
54.	4.464
57.	4.433
60.	4.398
63.	4.363
66.	4.326
69.	4.293
72.	4.263
75.	4.233
78.	4.201
81.	4.168
84.	4.137

Time (sec)	Displacement (ft)
87.	4.107
90.	4.079
93.	4.049
96.	4.023
99.	3.997
102.	3.974
105.	3.951
108.	3.928
111.	3.909
114.	3.886
117.	3.865
120.	3.844
123.	3.821
126.	3.797
129.	3.774
132.	3.751
135.	3.727
138.	3.706
141.	3.685
144.	3.667
147.	3.65
150.	3.633
153.	3.613
156.	3.594
159.	3.577
162.	3.563
165.	3.547
168.	3.533
171.	3.517
174.	3.505
177.	3.489
180.	3.477
183.	3.463
186.	3.451
189.	3.437
192.	3.423
195.	3.409
198.	3.397
201.	3.383
204.	3.371
207.	3.359
210.	3.346
213.	3.334
216.	3.322
219.	3.31
222.	3.297
225.	3.285
228.	3.273
231.	3.261
234.	3.249
237.	3.238
240.	3.228
243.	3.219
246.	3.207
249.	3.197
252.	3.185
255.	3.172
258.	3.16
261.	3.148
264.	3.136
267.	3.126
270.	3.113
273.	3.101
276.	3.091
279.	3.081

Time (sec)	Displacement (ft)
282.	3.07
285.	3.058
288.	3.048
291.	3.035
294.	3.025
297.	3.013
300.	3.002
303.	2.992
306.	2.98
309.	2.968
312.	2.959
315.	2.947
318.	2.938
321.	2.928
324.	2.916
327.	2.907
330.	2.895
333.	2.887
336.	2.876
339.	2.866
342.	2.855
345.	2.845
348.	2.836
351.	2.826
354.	2.816
357.	2.805
360.	2.795
363.	2.786
366.	2.776
369.	2.765
372.	2.757
375.	2.746
378.	2.736
381.	2.727
384.	2.718
387.	2.708
390.	2.698
393.	2.692
396.	2.682
399.	2.673
402.	2.663
405.	2.656
408.	2.647
411.	2.638
414.	2.631
417.	2.622
420.	2.614
423.	2.607
426.	2.598
429.	2.589
432.	2.58
435.	2.572
438.	2.563
441.	2.556
444.	2.547
447.	2.539
450.	2.53
453.	2.521
456.	2.513
459.	2.506
462.	2.497
465.	2.488
468.	2.479
471.	2.472
474.	2.464

Time (sec)	Displacement (ft)
477.	2.455
480.	2.446
483.	2.439
486.	2.43
489.	2.423
492.	2.416
495.	2.406
498.	2.399
501.	2.39
504.	2.381
507.	2.373
510.	2.361
513.	2.352
516.	2.343
519.	2.333
522.	2.324
525.	2.314
528.	2.303
531.	2.295
534.	2.284
537.	2.274
540.	2.263
543.	2.251
546.	2.241
549.	2.229
552.	2.218
555.	2.208
558.	2.196
561.	2.186
564.	2.175
567.	2.167
570.	2.158
573.	2.149
576.	2.14
579.	2.13
582.	2.121
585.	2.113
588.	2.104
591.	2.095
594.	2.088
597.	2.08
600.	2.071
603.	2.064
606.	2.055
609.	2.047
612.	2.033
615.	2.016
618.	2.
621.	1.985
624.	1.969
627.	1.955
630.	1.94
633.	1.926
636.	1.912
639.	1.897
642.	1.885
645.	1.869
648.	1.857
651.	1.843
654.	1.83
657.	1.817
660.	1.805
663.	1.792
666.	1.779
669.	1.767

Time (sec)	Displacement (ft)
672.	1.755
675.	1.745
678.	1.733
681.	1.721
684.	1.709
687.	1.699
690.	1.686
693.	1.674
696.	1.664
699.	1.654
702.	1.643
705.	1.631
708.	1.621
711.	1.609
714.	1.599
717.	1.587
720.	1.576
723.	1.566
726.	1.555
729.	1.545
732.	1.535
735.	1.524
738.	1.514
741.	1.504
744.	1.493
747.	1.483
750.	1.474
753.	1.464
756.	1.455
759.	1.447
762.	1.438
765.	1.428
768.	1.419
771.	1.409
774.	1.4
777.	1.39
780.	1.383
783.	1.374
786.	1.364
789.	1.355
792.	1.348
795.	1.34
798.	1.329
801.	1.321
804.	1.314
807.	1.304
810.	1.297
813.	1.286
816.	1.279
819.	1.272
822.	1.264
825.	1.257
828.	1.248
831.	1.24
834.	1.233
837.	1.224
840.	1.217
843.	1.209
846.	1.202
849.	1.193
852.	1.186
855.	1.179
858.	1.171
861.	1.165
864.	1.159

Time (sec)	Displacement (ft)
867.	1.152
870.	1.145
873.	1.138
876.	1.133
879.	1.126
882.	1.117
885.	1.11
888.	1.105
891.	1.096
894.	1.091
897.	1.084
900.	1.079
903.	1.072
906.	1.065
909.	1.058
912.	1.053
915.	1.046
918.	1.039
921.	1.034
924.	1.029
927.	1.022
930.	1.017
933.	1.01
936.	1.005
939.	1.
942.	0.993
945.	0.989
948.	0.984
951.	0.977
954.	0.972
957.	0.967
960.	0.96
963.	0.955
966.	0.949
969.	0.944
972.	0.937
975.	0.932
978.	0.927
981.	0.922
984.	0.917
987.	0.911
990.	0.906
993.	0.901
996.	0.896
999.	0.891
1002.	0.885
1005.	0.88
1008.	0.875
1011.	0.87
1014.	0.865
1017.	0.859
1020.	0.854
1023.	0.849
1026.	0.844
1029.	0.84
1032.	0.834
1035.	0.83
1038.	0.825
1041.	0.82
1044.	0.816
1047.	0.811
1050.	0.806
1053.	0.802
1056.	0.799
1059.	0.794

Time (sec)	Displacement (ft)
1062.	0.79
1065.	0.787
1068.	0.783
1071.	0.778
1074.	0.775
1077.	0.771
1080.	0.766
1083.	0.761
1086.	0.757
1089.	0.752
1092.	0.749
1095.	0.743
1098.	0.74
1101.	0.736
1104.	0.731
1107.	0.728
1110.	0.723
1113.	0.719
1116.	0.717
1119.	0.714
1122.	0.71
1125.	0.707
1128.	0.704
1131.	0.7
1134.	0.695
1137.	0.691
1140.	0.688
1143.	0.683
1146.	0.679
1149.	0.676
1152.	0.672
1155.	0.667
1158.	0.664
1161.	0.66
1164.	0.657
1167.	0.653
1170.	0.65
1173.	0.646
1176.	0.641
1179.	0.639
1182.	0.636
1185.	0.632
1188.	0.629
1191.	0.625
1194.	0.622
1197.	0.617
1200.	0.613
1203.	0.61
1206.	0.606
1209.	0.603
1212.	0.599
1215.	0.598
1218.	0.596
1221.	0.592
1224.	0.589
1227.	0.585
1230.	0.582
1233.	0.578
1236.	0.577
1239.	0.573
1242.	0.57
1245.	0.566
1248.	0.565
1251.	0.559
1254.	0.557

Time (sec)	Displacement (ft)
1257.	0.554
1260.	0.551
1263.	0.549
1266.	0.545
1269.	0.544
1272.	0.54
1275.	0.535
1278.	0.533
1281.	0.53
1284.	0.528
1287.	0.524
1290.	0.523
1293.	0.519
1296.	0.518
1299.	0.514
1302.	0.512
1305.	0.509
1308.	0.507
1311.	0.503
1314.	0.502
1317.	0.498
1320.	0.497
1323.	0.495
1326.	0.491
1329.	0.488
1332.	0.486
1335.	0.483
1338.	0.481
1341.	0.479
1344.	0.476
1347.	0.474
1350.	0.47
1353.	0.467
1356.	0.465
1359.	0.462
1362.	0.458
1365.	0.456
1368.	0.455
1371.	0.451
1374.	0.449
1377.	0.446
1380.	0.444
1383.	0.443
1386.	0.439
1389.	0.437
1392.	0.436
1395.	0.432
1398.	0.43
1401.	0.427
1404.	0.425
1407.	0.422
1410.	0.42
1413.	0.418
1416.	0.415
1419.	0.413
1422.	0.411
1425.	0.409
1428.	0.406
1431.	0.404
1434.	0.402
1437.	0.399
1440.	0.397
1443.	0.395
1446.	0.394
1449.	0.39

Time (sec)	Displacement (ft)
1452.	0.389
1455.	0.387
1458.	0.385
1461.	0.383
1464.	0.38
1467.	0.378
1470.	0.376
1473.	0.375
1476.	0.373
1479.	0.371
1482.	0.368
1485.	0.366
1488.	0.364
1491.	0.362
1494.	0.359
1497.	0.359
1500.	0.355
1503.	0.354
1506.	0.352
1509.	0.35
1512.	0.347
1515.	0.345
1518.	0.343
1521.	0.341
1524.	0.338
1527.	0.338
1530.	0.335
1533.	0.333
1536.	0.331
1539.	0.329
1542.	0.326
1545.	0.326
1548.	0.322
1551.	0.32
1554.	0.319
1557.	0.317
1560.	0.315
1563.	0.314
1566.	0.312
1569.	0.31
1572.	0.308
1575.	0.307
1578.	0.305
1581.	0.303
1584.	0.299
1587.	0.298
1590.	0.296
1593.	0.294
1596.	0.293
1599.	0.292
1602.	0.291
1605.	0.287
1608.	0.286
1611.	0.284
1614.	0.282
1617.	0.28
1620.	0.277
1623.	0.277
1626.	0.273
1629.	0.272
1632.	0.27
1635.	0.268
1638.	0.267
1641.	0.265
1644.	0.263

Time (sec)	Displacement (ft)
1647.	0.261
1650.	0.26
1653.	0.258
1656.	0.256
1659.	0.254
1662.	0.252
1665.	0.251
1668.	0.249
1671.	0.247
1674.	0.246
1677.	0.244
1680.	0.242
1683.	0.24
1686.	0.239
1689.	0.237
1692.	0.235
1695.	0.233
1698.	0.232
1701.	0.232
1704.	0.23
1707.	0.228
1710.	0.226
1713.	0.225
1716.	0.223
1719.	0.221
1722.	0.219
1725.	0.218
1728.	0.216
1731.	0.214
1734.	0.213
1737.	0.211
1740.	0.209
1743.	0.207
1746.	0.206
1749.	0.204
1752.	0.204
1755.	0.202
1758.	0.2
1761.	0.199
1764.	0.197
1767.	0.197
1770.	0.195
1773.	0.193
1776.	0.192
1779.	0.19
1782.	0.188
1785.	0.185
1788.	0.185
1791.	0.183
1794.	0.181
1797.	0.181
1800.	0.179
1803.	0.178
1806.	0.176
1809.	0.174
1812.	0.173
1815.	0.173
1818.	0.171
1821.	0.169
1824.	0.167
1827.	0.166
1830.	0.166
1833.	0.162
1836.	0.162
1839.	0.16

Time (sec)	Displacement (ft)
1842.	0.16
1845.	0.159
1848.	0.157
1851.	0.155
1854.	0.153
1857.	0.152
1860.	0.152
1863.	0.15
1866.	0.148
1869.	0.146
1872.	0.146
1875.	0.145
1878.	0.143
1881.	0.141
1884.	0.141
1887.	0.139
1890.	0.138
1893.	0.136
1896.	0.136
1899.	0.134
1902.	0.134
1905.	0.132
1908.	0.131
1911.	0.131
1914.	0.129
1917.	0.127
1920.	0.127
1923.	0.127
1926.	0.125
1929.	0.123
1932.	0.122
1935.	0.12
1938.	0.118
1941.	0.117
1944.	0.117
1947.	0.115
1950.	0.113
1953.	0.113
1956.	0.111
1959.	0.11
1962.	0.106
1965.	0.108
1968.	0.108
1971.	0.106
1974.	0.104
1977.	0.103
1980.	0.103
1983.	0.101
1986.	0.099
1989.	0.099
1992.	0.097
1995.	0.095
1998.	0.095
2001.	0.094
2004.	0.094
2007.	0.092
2010.	0.092
2013.	0.09
2016.	0.089
2019.	0.089
2022.	0.087
2025.	0.087
2028.	0.085
2031.	0.083
2034.	0.083

Time (sec)	Displacement (ft)
2037.	0.082
2040.	0.082
2043.	0.08
2046.	0.078
2049.	0.078
2052.	0.076
2055.	0.075
2058.	0.075
2061.	0.073
2064.	0.073
2067.	0.071
2070.	0.071
2073.	0.069
2076.	0.068
2079.	0.068
2082.	0.066
2085.	0.066
2088.	0.064
2091.	0.064
2094.	0.063
2097.	0.062
2100.	0.061
2103.	0.059
2106.	0.059
2109.	0.057
2112.	0.056
2115.	0.054
2118.	0.054
2121.	0.052
2124.	0.052
2127.	0.05
2130.	0.05
2133.	0.05
2136.	0.049
2139.	0.049
2142.	0.047
2145.	0.045
2148.	0.045
2151.	0.043
2154.	0.042
2157.	0.042
2160.	0.04
2163.	0.04
2166.	0.04
2169.	0.038
2172.	0.037
2175.	0.037
2178.	0.037
2181.	0.035
2184.	0.033
2187.	0.033
2190.	0.031
2193.	0.031
2196.	0.028
2199.	0.03
2202.	0.028
2205.	0.028
2208.	0.026
2211.	0.026
2214.	0.024
2217.	0.024
2220.	0.024
2223.	0.023
2226.	0.021
2229.	0.019

Time (sec)	Displacement (ft)
2232.	0.019
2235.	0.018
2238.	0.018
2241.	0.016
2244.	0.016
2247.	0.014
2250.	0.014
2253.	0.014
2256.	0.012
2259.	0.012
2262.	0.012
2265.	0.011
2268.	0.011
2271.	0.011
2274.	0.009
2277.	0.009
2280.	0.007
2283.	0.005
2286.	0.005
2289.	0.003
2292.	0.005
2295.	0.003
2298.	0.002
2301.	0.002
2304.	0.

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 2.17

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	1.544E-6	ft/sec
y0	8.211	ft