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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. (consultant)

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

Name: Sam Watts Phone: (919) 872-2660

E-mail: swatts@smeinc.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Edgecombe County Landfill	SR 1601 (Colonial Rd) Tarboro, NC 27886	33-01	.1600	June 25-27, 2007

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.

Sam Watts	Consultant/Geologist	(919) 872-2660
Facility Representative Name (Print)	Title	(Area Code) Telephone Number

Signature: S. P. Watts Date: 03/13/08

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA LICENSED SEAL 1806 GEOLOGIST SAMUEL P. WATTS 3/13/08

Revised 01/2007

JANUARY 2008
ENVIRONMENTAL COMPLIANCE MONITORING REPORT
EDGECOMBE COUNTY LANDFILL
TARBORO, NORTH CAROLINA

Facility Permit No. 33-01
S&ME Project No. 1054-07-238

Prepared for:
Edgecombe County
PO Box 10
Tarboro, NC 27886

Prepared by:

3201 Spring Forest Road
Raleigh, NC 27616

March 13, 2008

March 13, 2008

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

Reference: **Environmental Compliance Monitoring, January 2008**
Edgecombe County Landfill (Permit No. 33-01)
Tarboro, North Carolina
S&ME Project No. 1054-07-238

Dear Mr. Lane:

On behalf of Edgecombe County, S&ME, Inc. (S&ME) is pleased to submit this report documenting the environmental compliance monitoring event conducted on January 9 through January 11, 2008 at the Edgecombe County Landfill located in Tarboro, North Carolina. A compact disk (CD) with an electronic copy of Table 1 in Excel spreadsheet format (.xls) and an electronic copy of this report in portable document format (.pdf) is included in Appendix II.

The following report presents the results of laboratory analyses of groundwater samples collected from seven monitor wells (MW-1A, MW-3B, MW-4, MW-5, MW-6, MW-7A and MW-9) and surface water samples taken at upstream and downstream locations on Jerry's Creek. Static water-level measurements were recorded at selected on-site piezometers and wells to supplement the data points used to project the estimated groundwater table elevations, flow direction, and velocity.

Based on the number of analytes detected in the groundwater samples collected at the landfill during this sampling event, S&ME recommends that semi-annual sampling be continued at the site for selected analytes on the Appendix I constituent list in accordance with Section .1634 (b) of the Solid Waste Management Rules, and that future events exclude Appendix II monitoring.

S&ME is currently characterizing the nature and extent of the release at the Edgecombe County Landfill and performing the assessment of corrective measures for volatile organic compounds and inorganic compounds detected in compliance groundwater monitoring samples.

Please call us at (919) 872-2660 if you have any questions or comments, or if we can be of further assistance.

Sincerely,
S&ME, Inc.

Michelle L. Logut
Environmental Scientist

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

Enclosure: *January 2008 Semi-Annual Groundwater Sampling Event*, dated March 13, 2008

Cc: Mr. Danny Bagley - Edgecombe County Solid Waste Manager

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1.0 PROJECT INFORMATION AND STATUS

1.1 Introduction

Edgecombe County currently operates a solid waste facility on a tract of land located off of State Road 1601, in Edgecombe County, south of Tarboro, North Carolina (**Figure 1**). At their solid waste facility, the County operates a municipal solid waste (MSW) transfer station and a construction & demolition (C&D) debris landfill unit over an existing closed MSW landfill, in accordance with North Carolina Department of Environment and Natural Resources (NCDENR) Permit No.33-01. Edgecombe County has continued to perform groundwater and surface water monitoring on a semi-annual basis to comply with the requirements of North Carolina Solid Waste Management Rules (Solid Waste Rules), 15A NCAC 13B. S&ME has prepared this report on behalf of Edgecombe County to present the results of the January 2008 monitoring event as required by § .600 and .1632 of the Solid Waste Rules.

The January 2008 monitoring event included sampling for groundwater quality from the following wells selected from the groundwater monitoring network:

Water Quality Monitoring Network
Groundwater Sampling Locations

Background Monitor Wells	Compliance Monitor Wells
MW-3B	MW-1A
MW-4	MW-5
MW-9	MW-6
	MW-7A

In addition, surface water samples were collected from the upstream and downstream sampling points located on Jerry's Creek as part of the January 2008 monitoring event. Groundwater and surface water monitoring locations are illustrated on **Figure 2**.

1.2 Background

Groundwater has been monitored at the landfill facility since 1994 in accordance with § .1632 of the Solid Waste Rules and the facility's *Water Quality Monitoring Plan* (WQMP), dated September 1994. According to §.1634(a) of the Solid Waste Management Rules, due to constituent concentrations detected in the groundwater that were above the North Carolina groundwater quality standards in prior sampling events, the landfill is technically in the "assessment monitoring phase". S&ME is in the process of assessing the nature and extent of groundwater contamination in the vicinity of the landfill and assisting the County with developing corrective measures to remediate the groundwater contamination. While preparations for assessment and corrective action are in progress, the County has continued assessment monitoring.

On March 31, 1999, on behalf of Edgecombe County, S&ME submitted a *Work Plan for Groundwater Assessment – Edgecombe County Landfill* (Work Plan) to the Solid Waste Section (Section). The Section approved the Work Plan, with comments, on May 10, 1999. Using the revised Work Plan, the County began to assess potential impacts to groundwater quality from the landfill. Since the County began to assess the nature and extent of contamination at the landfill, there have been several significant changes at the facility.

Significant changes to the landfill have included closure of the MSW landfill (1997-1999), Hurricane Floyd (1999), a revision to the groundwater sampling and analysis plan (1998), and revisions to the water quality monitoring network (1998-2002). These events so altered the water quality observed at the facility that a re-evaluation of the site was needed in order to interpret the site in terms of a contaminant release or lack thereof. Starting with the June 2001 sampling event and continuing with the next three subsequent sampling events (January 2002, June 2002, and January 2003), groundwater samples were analyzed for the full list of constituents listed under 40 CFR 258 Appendix II to establish a new statistical monitoring baseline. The results of the re-evaluation were reported to NCDENR in S&ME's report titled *January 2003 Semi-Annual Sampling/Baseline Statistical Analysis*, dated August 19, 2003. These findings indicated a release of Appendix I constituents in the area of well MW-5; however, there was no statistical evidence of a release of any Appendix II constituents. It was recommended that future sampling events exclude Appendix II monitoring.

2.0 January 2008 SAMPLING EVENT

On January 9-11, 2008, S&ME personnel conducted semi-annual groundwater sampling at seven monitoring wells (MW-1A, MW-3B, MW-4, MW-5, MW-6, MW-7A, and MW-9) at the Edgecombe County Landfill (**Figure 2**) for the January 2008 sampling event. Two surface water samples (labeled as upstream and downstream) were also collected from upstream and downstream locations on Jerry's Creek. Discussion of field sampling methods and locations for the January 2008 groundwater and surface water sampling events is provided below. S&ME personnel performed sampling at the facility in accordance with the Solid Waste Rules and the facility's WQMP, dated September 1994, and *Revisions to the Sampling and Analysis Plan* (SAP), dated November 1998.

Prior to sampling the monitoring network, the depth to static groundwater in each monitoring well to be sampled was measured to an accuracy of ±0.01 feet using an electronic water level indicator. In order to provide additional data points to evaluate gradients and the potentiometric surface, the depth to water was also measured in additional wells and piezometers that were not sampled as part of the water quality monitoring network. 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. Water level measurements are presented in **Table 1** and **Figure 2**.

Following the collection of static groundwater level measurements, stagnant water from each well identified for sampling was purged using a low-flow peristaltic pump apparatus. As purging proceeded, pH, temperature, specific conductance, and turbidity were measured and recorded. In accordance with the revised SAP, a groundwater sample was collected after field parameters stabilized and the turbidity measurement was no higher than approximately 20 Nephelometric Turbidity Units (NTUs). The field parameters measured immediately before collecting each groundwater sample are presented in **Table 1**. One blind duplicate groundwater sample set was collected from MW-5 for the purpose of Quality Assurance/Quality Control (QA/QC).

After the field parameters stabilized, groundwater samples were collected into laboratory provided containers directly from the pump tubing. The surface water samples were collected into laboratory provided containers directly from Jerry's Creek. After collection, the sample containers were sealed, labeled, and placed into a cooler with ice. The samples were submitted under chain-of-custody protocols to Environmental Science Corp, Inc. (ESC), a North Carolina-certified laboratory, for analysis of constituents listed under 40 CFR 258 Appendix I. The results of analytical testing are discussed in Section 4.1 and a summary of compound concentrations detected are presented in **Table 1** and **Table 3**. A copy of the summary laboratory report is provided in **Appendix I**. A compact disk (CD) with and electronic copy of **Table 1** in Excel spreadsheet format (.xls) and an electronic copy of this report in portable document format (.pdf) is included in **Appendix II**.

3.0 SITE HYDROGEOLOGY

3.1 Groundwater Elevations and Flow Direction

The uppermost aquifer at the site is unconfined and is found in the silty sands of the Sunderland formation. This aquifer is recharged by inflow from upgradient areas and by precipitation infiltration. The uppermost aquifer underlying the landfill is expected to discharge to the local surface water features, including Jerry's Creek; the drainage features in the active landfill area; and the farm pond located in the southeast corner of the site. During flood conditions, Jerry's Creek, the southwest perimeter trench, and the farm pond may recharge the aquifer. The marine clay layer (Yorktown Formation) encountered at depths from 13 to 24 feet below the original ground surface may be acting as a confining layer below the landfill.

Shallow monitoring wells and piezometers are installed in the surficial aquifer. Static water levels are defined as the depths to the water in the well and piezometer measured from the top of the casing (TOC). As previously discussed, water levels in several of the site monitor wells and piezometers were measured prior to the sampling of selected wells. The protective surface casing at monitor well MW-1A was previously damaged and an obstruction within the casing prevented measuring the static water level in this well. Water level data were recorded in a field log book and used to calculate the corresponding groundwater elevation within each monitoring well and piezometer based on surveyed TOC elevations. The depth to static water levels and groundwater elevations for the monitoring network are presented in **Table 1**. A groundwater potentiometric map was developed based on the groundwater elevations (**Figure 2**). Based upon the water table elevations and the calculated potentiometric gradients, the groundwater flow direction within the surficial aquifer was projected to the north-northeast.

3.2 Groundwater Flow Velocity

Aquifer slug tests have been performed previously utilizing rising and falling head techniques. The slug test data were used to estimate the hydraulic conductivity of the sediments in the surficial aquifer intersected at the monitoring well locations tested. The aquifer test data (provided in previous reports) were analyzed by the Bouwer and Rice Method. As summarized on **Table 2**, the estimated hydraulic conductivity values range from 1.29×10^{-5} centimeters per second (cm/sec) at monitor well MW-6, located on the northern portion of the landfill along Jerry's Creek, to 3.65×10^{-4} cm/sec at peizometer P-1, located along the southeastern perimeter of the landfill.

Using the current groundwater elevation information and historical information on hydraulic conductivity and effective porosity, S&ME calculated the horizontal groundwater flow gradient and the estimated groundwater flow velocity at each well and piezometer location. The static water level was not measured in monitor well MW-1A, therefore, the hydraulic gradient, and subsequent flow velocity could not be calculated. Monitor wells MW-4, MW-8A, MW-9, and MW-10 are located at the perimeter of the landfill where it appears that groundwater flow within the surficial water bearing zone may be diverging away from the

may be diverging away from the overall flow pattern across the site. Because the direction of groundwater flow in the vicinity of these wells is undetermined, the hydraulic gradient, and subsequent flow velocity, was not calculated. This groundwater flow velocity information is summarized on **Table 2** and is presented on **Figure 2**. Calculated groundwater flow velocities in the surficial aquifer ranged from 1.7 to 26.0 feet per year (ft/yr). These velocities are based on the gradient and the typical aquifer characteristics (porosity and hydraulic conductivity) measured at each well. The hydraulic gradient was determined from the difference in hydraulic head between two points divided by the distance parallel to the direction of groundwater flow between the two points. While the values measured at each well represent the calculated groundwater flow at that well location, the average groundwater flow velocity for the site is 13.97 ft/yr. The average hydraulic gradient within the surficial aquifer is 0.019 ft/ft. The calculated gradients and resulting groundwater velocities in January 2008 were similar to those recorded during the previous sampling events.

4.0 GROUNDWATER AND SURFACE WATER QUALITY

S&ME sampled seven groundwater monitoring wells (MW-1A, MW-3B, MW-4, MW-5, MW-6, MW-7A, and MW-9) and Jerry's Creek at two established sampling points (upstream and downstream locations) during the January 2008 sampling event. The samples were analyzed by ESC for constituents listed in the 40 CFR 258, Appendix I analyte list. Laboratory analytical methods included EPA Method 6010/6020 (metals) and Method 8260 (volatile organic compounds, VOCs). Discussions of the laboratory test results from the groundwater samples are included in the following sections. The results of the laboratory testing for the January 2008 sampling event are summarized on **Table 1** and **Table 3**. The laboratory reports from ESC are provided in **Appendix I**. A CD with and electronic copy of **Table 1** in Excel spreadsheet format (.xls) is included in **Appendix II**.

In a memorandum from NCDENR-DWM, Solid Waste Section (Section) dated October 27, 2006, the Section indicated that effective December 1, 2006 the Practical Quantitation Limits (PQLs) established in 1994 would be changed to Solid Waste Reporting Limits (SWRLs). On February 23, 2007, the Section issued an addendum to the October 27, 2006 memorandum. The addendum provided further clarification regarding the detection of constituents in groundwater at levels below the previous PQLs. The nomenclature of the SWRL described in the October 27, 2006, memorandum was changed to Solid Waste Section Limit (SWSL) in the February 23, 2007 memorandum. The SWSL was defined as the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy. The SWSL 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. In the February 23, 2007 memorandum, the Section also required that laboratories report analytical results to the method detection limits (MDLs) rather than the PQL. According to the Section, detections above the MDL but below the SWSL are considered estimated values, designated by the letter "J". According to the laboratory quality control performed by ESC, detections above the MDL but below the reported detection limit (RDL) are considered estimated values, designated by the letter "J".

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 were not reported based on PQLs prior to 2007 were detected in the January 2007, June 2007, and January 2008 sampling events using the new criteria. In our opinion, these findings generally are not necessarily indicative of an increase in the presence of these constituents in the groundwater but rather due to these changes in the reporting and evaluation standards.

4.1 Groundwater Analytical Data

Constituent concentrations detected above the laboratory MDLs are summarized on **Table 3**. For comparison purposes, these results are shown with their respective SWSL and 15A North Carolina Administrative Code (NCAC) Subchapter 2L .0200 Groundwater Quality Standards (2L Standard). 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).

Monitoring wells MW-3B, MW-4, and MW-9 are the upgradient (background) wells sampled during the January 2008 sampling event. Monitoring wells MW-1A, MW-5, MW-6 and MW-7A are the downgradient (compliance) wells sampled during this sampling event. The duplicate groundwater sample was collected from monitor well MW-5.

Volatiles No Appendix I volatile organic compounds (VOCs) were detected in the groundwater samples collected from upgradient wells MW-3B, MW-4, and MW-9, and downgradient well MW-6.

Thirteen Appendix I VOCs were detected above their respective MDLs in the groundwater samples collected from compliance monitor wells MW-1A, MW-5, and MW-7A. Ten of the thirteen VOCs were detected above their respective SWSLs in the groundwater samples collected from monitor wells MW-1A, MW-5, and MW-7A. The ten VOCs exceeding their respective SWSLs include benzene, chlorobenzene, 1,4-dichlorobenzene, 1,1-dichloroethane, 1,2-dichloroethane, cis-1,2-dichloroethene, trans-1,2-dichloroethene, 1,2-dichloropropane, trichloroethene, and vinyl chloride.

Seven of the ten VOCs were detected in the groundwater samples collected from monitor wells MW-5 and MW-7A above their respective 2L Standards. Benzene was detected at 2.6 micrograms per liter (µg/L) in the groundwater sample collected from MW-5 and at 3.1 µg/L in the groundwater sample collected from MW-7, exceeding the 2L Standard of 1 µg/L. Laboratory analytical results indicated that 1,4-dichlorobenzene was detected at 6.0 µg/L in MW-5 and at 1.6 µg/L in MW-7A, above the 2L Standard of 1.4 µg/L. Vinyl chloride was detected at 44 µg/L in MW-5 and at 0.61 µg/L in MW-7A, exceeding the 2L Standard of 0.015 µg/L.

Four additional VOCs were detected in the groundwater sample collected from MW-5 above of their respective 2L Standards. 1,2-Dichloroethane was detected in the groundwater sample collected from MW-5 at 1.4 µg/L, exceeding the 2L Standard of 0.38 µg/L. The analyses completed on the samples collected from MW-5 indicated that cis-1,2-dichloroethene and 1,2-dichloropropane were detected at 480 µg/L and 1.2 µg/L respectively, exceeding their 2L Standards of 70 µg/L and 0.51 µg/L. Trichloroethene was detected in the groundwater sample collected from MW-5 at 9.4 µg/L, above the 2L Standard of 2.8 µg/L.

Inorganics Fifteen Appendix I inorganic constituents were detected above their respective MDLs in groundwater samples collected from the background and compliance wells. Seven of the fifteen inorganic constituents were detected above their respective SWSLs in the groundwater samples collected from monitor wells MW-3B, MW-9, MW-1A, MW-5, MW-6, and MW-7A. The seven inorganics exceeding their respective SWSLs include arsenic, barium, beryllium, cadmium, cobalt, lead, and zinc.

Two of the seven inorganics were detected in the groundwater samples collected from monitor wells MW-5 and MW-7A above their respective 2L Standards/GWPSTs. Cobalt was detected in the groundwater sample collected from MW-5 at 0.13 milligrams per liter (mg/L) exceeding the GWPST of 0.07 mg/L. Lead was detected in the groundwater sample collected from MW-7A at 0.046 mg/L exceeding the 2L Standard of 0.015 mg/L.

Two additional inorganic constituents (thallium and vanadium) were detected in the groundwater samples collected from compliance and background monitor wells exceeding their respective 2L Standards/GWPSTs, but below their respective SWSLs. Thallium was detected below the SWSL but above the GWPST in the samples collected from all background and compliance wells. The detections of thallium ranged from 0.00031 mg/L in the groundwater sample collected from MW-9 to 0.00041 mg/L in the groundwater sample collected from MW-5, exceeding the GWPST of 0.00028 mg/L. Vanadium was detected at 0.0056 mg/L, below the SWSL but above the GWPST of 0.0035 mg/L in the sample collected from MW-1A.

In addition to the Appendix I VOCs and metals analyses during the January 2008 monitoring event, the laboratory (ESC) reported results for mercury (an Appendix II constituent). No detections of mercury were reported in any of the groundwater samples collected during the January 2008 sampling event.

Quality Control The concentrations of the Appendix I VOCs and inorganic constituents detected in the duplicate sample collected from monitor well MW-5 were similar to those detected in the record sample collected from MW-5. However, two additional VOCs (tetrachloroethene and toluene) were detected in the duplicate samples collected from monitor well MW-5, but below their respective SWSLs and 2L Standards. One additional metal (beryllium) was detected in the duplicate sample collected from monitor well MW-5 above the SWSL, but below the 2L Standard.

Chloroform was detected in the equipment blank sample, but below the 2L Standard and SWSL. Chloroform was not detected in any of the groundwater samples collected from the upgradient or downgradient monitor wells. No other Appendix I VOCs were detected in the equipment blank sample. Several inorganic constituents were detected exceeding their respective MDLs in the equipment blank sample, including antimony, barium, beryllium, cadmium, copper, and thallium. However, thallium (0.00031 mg/L) was the only inorganic constituent detected in the equipment blank exceeding its respective groundwater standard (GWPST of 0.00028 mg/L). Because these inorganics were detected in the equipment blank sample, the determination of the presence of antimony, barium, beryllium, cadmium, copper,

barium, beryllium, cadmium, copper, and thallium in any monitor well samples was inconclusive. It should be noted that during the June 2007 monitoring event, thallium was detected at a concentration exceeding the GWPST in the sample collected from one well (MW-5).

It is important to note that the laboratory MDLs for 1,2-dichloropropane (0.52 µg/L) and vinyl chloride (0.27µg/L) for all groundwater samples were in excess of the 2L Standards for 1,2-dichloropropane (0.51 µg/L) and vinyl chloride (0.015 µg/L) so these constituents may potentially have been present at low levels in additional groundwater samples without being detected.

4.2 Surface Water Analytical Data

One Appendix I VOC (cis-1,2-dichloroethene) was detected above the MDL in the downstream surface water sample, but below the SWSL. The detection of cis-1,2-dichloroethene at 0.68 µg/L was less than the reported detection limit (RDL) of 1.0 µg/L, therefore this is an estimated value ("J" qualifier). An explanation of qualified laboratory analytical results is provided in the laboratory report included in **Appendix I**. No additional Appendix I VOCs were detected in the surface water samples collected from the upstream and downstream sampling locations.

Nine Appendix I inorganic compounds were detected above the MDL in the surface water samples collected from both upstream and downstream locations, but below their respective SWSLs. Zinc was detected above the MDL and SWSL in the samples collected from both upstream and downstream locations at 0.017 mg/L and 0.024 mg/L, respectively. No additional inorganic compound concentrations were detected in either of the surface water sampling points located upstream or downstream of the landfill along Jerry's Creek.

The results of the laboratory analyses are summarized in **Table 1** and **Table 3**. The laboratory reports are provided in **Appendix I**. A compact disk (CD) with and electronic copy of **Table 1** in excel spreadsheet format (.xls) is included in **Appendix II**.

5.0 DISCUSSION OF GROUNDWATER DETECTIONS

As discussed in Section 4, the following 30 individual Appendix I constituents were detected above the MDL in one or more samples in the January 2008 monitoring event:

January 2008 Sampling Event –
Appendix I Constituents Detected in Groundwater

Background Monitor Wells	Appendix I Detected Constituents
MW-3B	antimony, arsenic, barium, beryllium, cadmium, cobalt, copper, nickel, selenium, thallium, vanadium, zinc
MW-4	antimony, arsenic, barium, beryllium, cadmium, cobalt, copper, selenium, thallium,
MW-9	antimony, arsenic, barium, beryllium, cadmium, selenium thallium, zinc
Compliance Monitor Wells	**Appendix I Detected Constituents**
MW-1A	cis-1,2-dichloroethene, antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, selenium, thallium, vanadium, zinc
MW-5	benzene, chlorobenzene, chloroethane, 1,2-dichlorobenzen 1,4-dichlorobenzene 1,1-dichloroethane, 1,2-dichloroethan 1,1-dichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, 1,2-dichloropropane, trichloroethene, viny chloride, antimony, arsenic, barium, cadmium, cobalt, copper, lead, nickel, selenium, silver, thallium, zinc
MW-6	antimony, arsenic, barium, beryllium, cadmium, cobalt, copper, selenium, thallium, zinc
MW-7A	benzene, chlorobenzene, chloroethane, 1,4-dichlorobenzen 1,1-dichloroethane, cis-1,2-dichloroethene, vinyl chloride, antimony, arsenic, barium, beryllium, cadmium, cobalt, lead, nickel, selenium, thallium, vanadium

The following 17 individual Appendix I constituents were detected above the SWSL in one or more samples in the January 2008 monitoring event:

January 2008 Sampling Event –
Appendix I Constituents Detected Above SWSL in Groundwater

Background Monitor Wells	Appendix I Detected Constituents
MW-3B	barium, beryllium, cadmium, cobalt, thallium*, vanadium zinc
MW-4	thallium*
MW-9	barium, thallium*
Compliance Monitor Wells	**Appendix I Detected Constituents**
MW-1A	barium, thallium*, vanadium*
MW-5	benzene, chlorobenzene, 1,4-dichlorobenzene, 1,1-dichloroethane, 1,2-dichloroethane, cis-1,2-dichloroethene trans-1,2-dichloroethene, 1,2-dichloropropane, trichloroethene, vinyl chloride, arsenic, barium, cobalt, lea thallium*, zinc
MW-6	thallium*, zinc
MW-7A	benzene, chlorobenzene, 1,4-dichlorobenzene, vinyl chloride*, arsenic, lead, thallium*, vanadium*

* = Constituent detected below SWSL, but above 2L Standard/GWPST

5.1 Statistical Analysis

The statistical methods described in the facility's WQMP (S&ME, 1994) are the same as those described in Section .1632 (g) of the Solid Waste Rules for statistical evaluation of groundwater monitoring data for considering whether or not a detected analyte should be considered a release from the facility. S&ME has previously performed statistical evaluations of groundwater monitoring data and included this demonstration in sampling reports previously submitted to the Section.

The historical data pool has been updated and included in this report for this sampling event, however, no statistical analysis was performed due to the following changes in sample analytical methods and ongoing assessments activities:

- 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

reported concentrations exceeded the facility background concentration.

Several constituents that have not been reported as detected during sampling events prior to 2007 were detected in the January 2007, June 2007, and January 2008 sampling events due to the fact that the new SWSLs and MDLs are lower than the previous PQLs. 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. 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.

- Historically, both organic and inorganic constituents have been detected at the facility. In a letter dated May 10, 1999, the Section approved (with comments) the *Work Plan for Groundwater Assessment* (S&ME, 1999) to address the apparent impact to water quality from the facility. S&ME has assisted the County with assessing the nature and extent of the groundwater contamination at the landfill facility. The results of previous assessment activities have been submitted to the Section. The County is currently performing assessment of corrective measures (ACM) prior to implementing engineering controls to mitigate the impacts from the release.

  Pursuant to the requirements of 15A NCAC 13B .1634(g)(2), if constituents are detected at statistically significant levels above the approved groundwater 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 groundwater quality. Data presented in the July 2006 semi-annual sampling report statistical analysis has not shown that the statistical procedures demonstrated such errors. The facility has already begun to assess the nature and extent of the apparent release as required by § .1634 and .1635. After the nature and extent of the apparent release has been assessed, it would be appropriate to resume statistical analysis of the sampling data from the site.

5.2 Qualitative Groundwater Review of Analytical Results

Background Monitor Wells MW-3B, MW-4, and MW-9

No Appendix I VOCs were detected above the laboratory MDL during the January 2008 sampling event in the samples collected from background monitor wells MW-3B, MW-4, and MW-9. Twelve Appendix I inorganic constituents were detected above the laboratory MDL during the January 2008 sampling event in the background monitor wells. Five of these twelve Appendix I inorganic constituents were detected in the background monitor wells exceeding their respective SWSLs and two Appendix I inorganic constituents were detected in the background wells exceeding their respective GWPST, but below their respective SWSLs.

Barium was detected above its respective SWSL in the samples collected from MW-3B and MW-9. Time series graphs of the detected concentrations of barium at MW-3B and MW-9 are included in **Appendix III**. As shown on the graphs, detections of barium were not previously reported for background monitor wells MW-3B and MW-9 until the January 2007 sampling event. In our opinion, these detections do not indicate a change in groundwater quality at these locations but rather reflect changes in analytical protocol. Barium was not previously reported as detected under the PQL protocol (0.5 mg/L). Since the new SWSL (0.1 mg/L) became effective, the detections of barium in the water samples from MW-3B and MW-9 have been reported.

Beryllium and cadmium were detected above their respective SWSLs in the groundwater sample collected from monitor well MW-3B. Time series graphs for the detected concentrations of beryllium and cadmium at MW-3B are included in **Appendix III**. As shown on the graph, beryllium was not previously reported in the groundwater samples collected from MW-3B until the January 2008 sampling event. Cadmium has been sporadically detected in the groundwater samples collected from MW-3B, as shown on the graph. Therefore, there is no discernable trend of the detected concentrations of cadmium at MW-3B.

Cobalt and zinc were also detected above their respective SWSLs in the sample collected from MW-3B. Time series graphs of the detected concentrations of cobalt and zinc at the background monitor well MW-3B are included in **Appendix III**. As shown on the graph, cobalt has been consistently detected at about 0.03 mg/L. The 2007 and 2008 results for cobalt show a slight decrease over previous results. Prior to 2007, zinc had only been detected in MW-3B groundwater samples in the early 2004 sample. Those results along with the 2007 and 2008 results are not sufficient to identify a discernable trend for zinc.

Vanadium was detected above its respective GWPST in the sample collected from MW-3B. A time series graph of the detected concentrations of vanadium at the background monitor well MW-3B is included in **Appendix III**. A review of the time series graph for vanadium shows that detections of vanadium were not previously reported for MW-3B until the January 2007 sampling event. In our opinion, these detections do not indicate a change in groundwater quality at this location but rather reflect changes in protocol. Vanadium was not previously reported as detected under the PQL protocol (0.04 mg/L) and GWPST of 0.025

and GWPST of 0.025 mg/L. Since the new SWSL (0.025 mg/L) and GWPST (0.0035 mg/L) became effective, the detections of vanadium in the MW-3B water samples have been reported.

Thallium was detected above its respective GWPST in the samples collected from MW-3B, MW-4, and MW-9. Time series graphs of the detected concentrations of thallium at the background monitor wells are included in **Appendix III**. A review of the time series graph for thallium shows that detections of thallium were not previously reported for background well MW-3B until January 2008, with the exception of the January 2007 sampling event. Time series graphs for thallium also show that detections of thallium were not reported for MW-4 and MW-9 until the January 2008 sampling event. Therefore, there are no discernable trends of the detected concentrations of cadmium at background wells MW-3B, MW-4, and MW-9.

Compliance Monitor Well MW-1A

The groundwater sample collected from compliance monitor well MW-1A had one Appendix I VOC (cis-1,2-dichloroethene) detected above the laboratory MDL during the January 2008 sampling event. Cis-1,2-dichloroethene was detected below the SWSL and 2L Standard, however it has historically been detected in MW-1A. A time series graph of the detections of cis-1,2-dichloroethene at MW-1A is included in **Appendix III**. A review of this graph shows a trend of decreasing concentrations over time at MW-1A.

Twelve Appendix I inorganic constituents were detected above the laboratory MDL during the January 2008 sampling event in the sample collected from compliance monitor well MW-1A. Thallium was detected above its respective GWPST in all of the sampled monitor wells, including the sample collected from MW-1A. A time series graph of the detected concentrations of thallium at MW-1A is included in **Appendix III**. A review of the time series graph for thallium shows that detections of thallium were not previously reported for compliance well MW-1A until the January 2008 sampling event.

Two additional Appendix I inorganic constituents (barium and vanadium) were detected in MW-1A exceeding their respective SWSLs or GWPST. Time series graphs of the detected concentrations of these constituents at MW-1A are included in **Appendix III**. Barium and vanadium were detected periodically previous to about 1995 and during the 2007 and 2008 sampling events. There is insufficient data to identify discernable trends for these constituents at this well.

Compliance Monitor Well MW-5

A total of three Appendix I VOCs (chlorobenzene, 1,1-dichloroethane, and trans-1,2-dichloroethene) were detected exceeding their respective SWSLs in the groundwater sample collected from compliance monitor well MW-5 during the January 2008 sampling event. Seven additional Appendix I VOCs (benzene, 1,4-dichlorobenzene, 1,2-dichloroethane, cis-1,2-dichloroethene, 1,2-dichloropropane, trichloroethene, and vinyl chloride) were detected exceeding their respective SWSLs and 2L Standards in the groundwater sample collected from MW-5. Time series graphs of the detected concentrations of these ten constituents at MW-5 are included in **Appendix III**. All of these Appendix I constituents have historically

these Appendix I constituents have historically been detected in MW-5 with the exception of 1,2-dichloroethane and 1,2-dichloropropane. Concentrations of benzene, 1,1-dichloroethane, and trichloroethene show trends of decreasing concentrations over time. A review of the time series graph for cis-1,2-dichloroethene detected in MW-5 shows a trend of increasing concentrations over time. A review of the times series graph for 1,2-dichloroethane shows that detections of 1,2-dichloroethane have not been reported in the groundwater samples collected from MW-5 prior to 2008, with the exception of the 1994 sampling event. The time series graph shows that 1,2-dichloropropane has not previously been detected in the groundwater samples collected from monitor well MW-5 before 2008. There is no discernable trend of the detected concentrations of chlorobenzene, 1,4-dichlorobenzene, trans-1,2-dichloroethene, and vinyl chloride.

The groundwater sample collected from MW-5 had twelve Appendix I inorganic constituents detected above the laboratory MDL during the January 2008 sampling event. Four of these twelve Appendix I inorganic constituents (arsenic, barium, lead, and zinc) were detected in MW-5 exceeding their respective SWSLs. In addition, concentrations of cobalt and thallium were detected in the samples collected from MW-5 exceeding their respective GWPSTs. Time series graphs of the detected concentrations of these constituents at MW-5 are included in **Appendix III**. A review of the time series graph for zinc detected in MW-5 shows a trend of slightly decreasing concentrations over time. Concentrations of cobalt and thallium show trends of increasing concentrations over time. There is no discernable trend of the detected concentrations of lead and arsenic. A review of the time series graph for barium detected in MW-5 shows that barium has not previously been report in the groundwater samples collected from MW-5 before January 2007. In our opinion, these detections do not indicate a change in groundwater quality at MW-5 but rather reflect changes in protocol. Barium was not previously reported as detected under the PQL protocol (0.5 mg/L). Since the new SWSL (0.1 mg/L) became effective, the detections of barium in the water samples from MW-5 have been reported.

Compliance Monitor Wells MW-6

No Appendix I VOCs were detected above the MDL in the groundwater sample collected from monitor well MW-6 during the January 2008 sampling event. Ten Appendix I inorganic constituents were detected above the laboratory MDL in the sample collected from compliance monitor well MW-6. One of the ten inorganic constituents (zinc) exceeded its respective SWSL. Thallium was also detected above its GWPST in the groundwater sample collected from MW-6. Time series graphs of the detected concentrations of zinc and thallium at MW-6 are included in **Appendix III**. A review of the time series graph shows that detections of thallium were not previously reported in the groundwater samples collected from MW-6. Zinc was detected periodically previous to about 1995 and during the 2007 and 2008 sampling events. There is insufficient data to identify a discernable trend for zinc at this well.

Compliance Monitor Well MW-7A

Seven Appendix I VOCs were detected above the laboratory MDL in the groundwater sample collected from compliance monitor well MW-7A during the January 2008 sampling event. Chlorobenzene was detected in the groundwater sample collected from MW-7A above its respective SWSL. Vinyl chloride was detected in the groundwater sample collected from MW-7A exceeding its respective 2L Standard. Two additional analytes (benzene and 1,4-dichlorobenzene) were detected above their respective 2L Standards and SWSLs. Time series graphs of these constituent concentrations detected at MW-7A are included in **Appendix III**. A review of the time series graphs for benzene, chlorobenzene, and 1,4-dichlorobenzene in MW-7A show these constituents were not previously detected in MW-7A under the old PQL criteria (5 µg/L for benzene, chlorobenzene, and 1,4-dichlorobenzene), but were detected in 2007 and 2008 under the newer SWSL criteria (1 µg/L for benzene and 1,4-dichlorobenzene and 3 µg/L for chlorobenzene) . In our opinion, these detections do not indicate a change in groundwater quality at MW-7A but rather reflect changes in protocol. Vinyl chloride has not been detected in the groundwater samples collected from MW-7A before 2008.

The groundwater sample collected from monitor well MW-7A had eleven Appendix I inorganic constituents detected above the laboratory MDL during the January 2008 sampling event. Arsenic was detected in the groundwater sample collected from MW-7A exceeding the SWSL. Thallium and vanadium were detected in the groundwater sample collected from compliance monitor well MW-7A exceeding their respective GWPSTs. Lead exceeded its SWSL and 2L Standard in the groundwater sample collected from MW-7A. Time series graphs of these constituent concentrations detected at MW-7A are included in **Appendix III**. A review of the times series graphs show that arsenic and vanadium detections have not previously been reported in the groundwater samples collected from MW-7A before June 2007. Thallium has not previously been detected in the groundwater samples collected from MW-7A before the January 2008 sampling event. Lead has been detected periodically since 2004 in the groundwater samples collected from MW-7A. There is insufficient data to identify a discernable trend for lead at this well.

6.0 CONCLUSIONS AND RECOMMENDATIONS

S&ME performed semi-annual sampling at the Edgecombe County Landfill in Tarboro, North Carolina. During the January 2008 sampling event, groundwater samples were collected from three background (upgradient) and four compliance (downgradient) monitoring wells. Two surface water samples (one upstream and one downstream) were also collected from Jerry's Creek.

In addition to the sampled wells (MW-1A, MW-3B, MW-4, MW-5, MW-6, MW-7A, and MW-9), the depth to static groundwater was measured in monitor wells MW-5S, MW-5D, MW-8A, MW-10, piezometers P-1, P-2A, P-3A. The water level data were used to calculate groundwater elevations at each well location, to prepare a groundwater potentiometric map and from the potentiometric map, to predict groundwater flow direction, gradient, and velocities.

6.1 Summary of January 2008 Sampling Event

- Based on the water table elevations and calculated potentiometric gradients, the groundwater flow direction within the surficial aquifer was projected to the north-northeast with an average hydraulic gradient of 0.019 ft/ft. The average groundwater flow velocity for the site is approximately 13.97 ft/yr.

- Constituent concentrations of thirty Appendix I analytes were detected above the respective laboratory MDLs in the samples collected. Of these thirty constituents, eleven analytes were detected at concentrations that exceeded groundwater quality standards.

- Thallium was reported at a concentration exceeding the GWPST in the sample from one well (MW-5) during the June 2007 monitoring event. Thallium was reported in the equipment blank and all monitor well samples (background and compliance) at levels exceeding the GWPST during the January 2008 monitoring event. Thallium was also reported in the surface water samples at levels exceeding the SWSL. Because thallium was reported in the equipment blank, the determination of the presence of thallium in any monitor well sample was inconclusive.

- Vanadium exceeded its respective standard in groundwater samples collected from upgradient (background) monitor well MW-3B as well as downgradient (compliance) monitor wells MW-1A and MW-7A.

- Excluding thallium, samples collected from MW-5 had the most detections of Appendix I constituents above the 2L Standards/GWPSTs. These included benzene, 1,4-dichlorobenzene, 1,2-dichloroethane, cis-1,2-dichloroethene, 1,2-dichloropropane, trichloroethene, vinyl chloride, and cobalt. MW-7A had reported constituents above the 2L Standards/GWPSTs that included benzene, 1,4-dichlorobenzene, vinyl chloride, lead, and vanadium.

- No statistical analysis was performed for the January 2008 sampling event, however, time series graphs of historically detected constituents were reviewed. The majority of the Appendix I analytes detected above their respective groundwater quality standards during the January 2008 sampling event appear to follow statistical trends evaluated during the June 2006 sampling event.

6.2 Recommendations

The results of the January 2008 sampling event show that groundwater near the Edgecombe County Landfill has been impacted by the facility. Based on the number of analytes detected in the groundwater at the landfill during this sampling event, S&ME recommends that semi-annual sampling be continued at the site for select analytes on the Appendix I constituent list in accordance with Section .1634 (b) of the Solid Waste Management Rules, and that future events exclude Appendix II monitoring.

S&ME is currently characterizing the nature and extent of the release at the landfill and performing the assessment of corrective measures for volatile organic compounds and inorganic compounds detected in compliance groundwater monitoring samples. S&ME will meet with you to discuss the results of these tasks when completed. S&ME is also in the process of assessing the effect of the new SWSLs on statistical analysis procedures to determine if statistical analyses should be continued on all four compliance wells (MW-1A, MW-5, MW-6, and MW-7A).

As required by North Carolina Solid Waste Management Rule .1634, these results should be forwarded to the owner/operator of the Edgecombe County Landfill for inclusion in the operating record and to the North Carolina Division of Solid Waste for their review.

7.0 REFERENCES

Department of Environment and Natural Resources, Division of Water Quality, *15A NC Administrative Code Subchapter 2B .0200 Classifications and Water Quality Standards Applicable to Surface Waters and Wetlands of NC*, August 2004.

Department of Environment and Natural Resources, Division of Water Quality, *15A NC Administrative Code Subchapter 2L .0200 Groundwater Quality Standards*, December 2005.

Department of Environment and Natural Resources, Division of Waste Management, *15A NC Administrative Code Subchapter 13B .1634(h) Solid Waste Groundwater Protection Standard, Solid Waste Management Rules*, November 2004.

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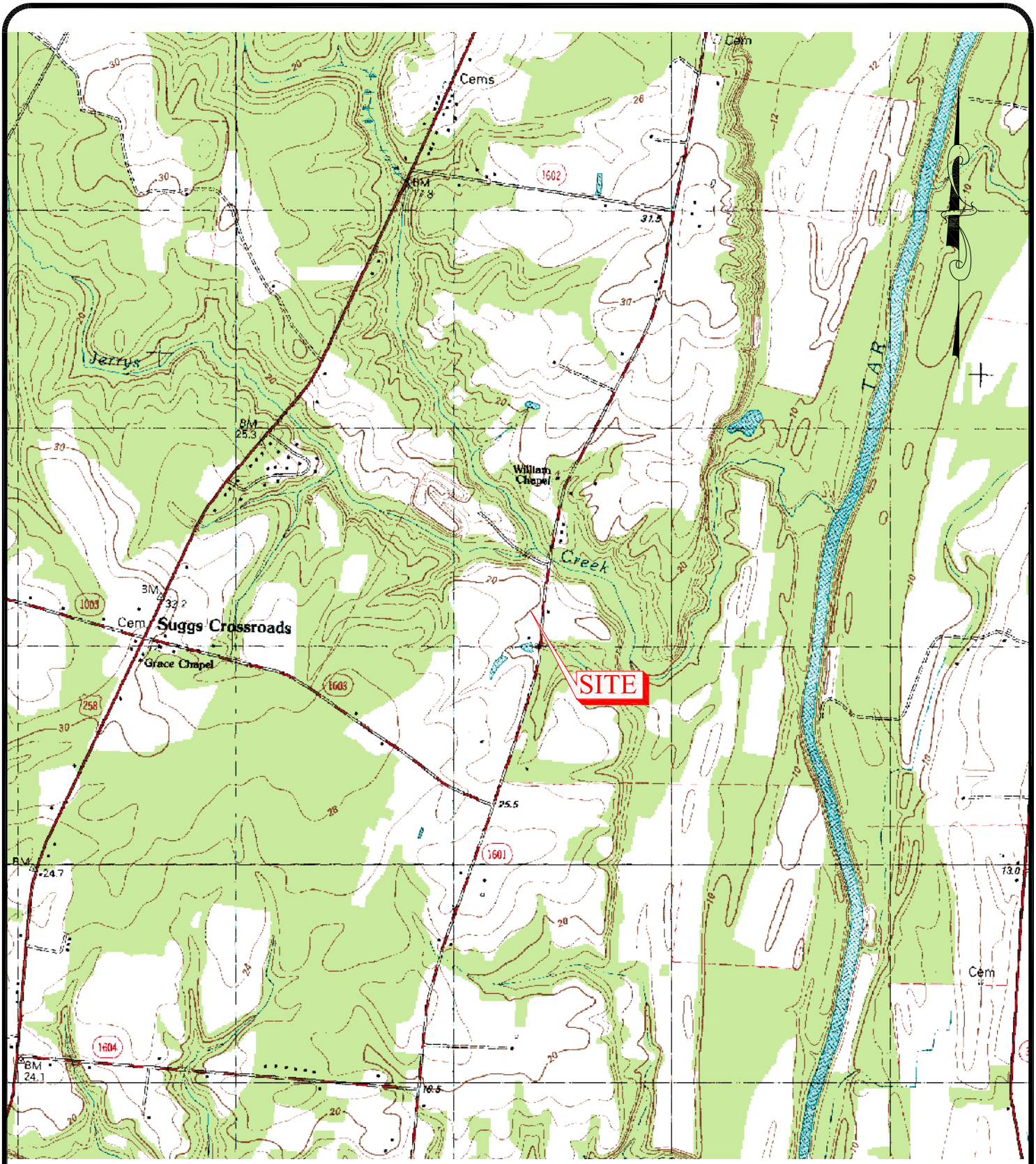
Pankow, James F. and Cherry, John A., *Dense Chlorinated Solvents and other DNAPLs in Groundwater*, p. 267-284, 1996.

S&ME, Inc., *Water Quality Monitoring Plan, Edgecombe County Landfill, Tarboro, North Carolina*, May 10, 1994

S&ME, Inc, *Revision to the Sampling and Analysis Plan (SAP) Edgecombe County Landfill*, November 9, 1998

US Department of Agriculture, Soil Conservation Service, *Soil Survey of Edgecombe County, NC*, November 1979.

FIGURES

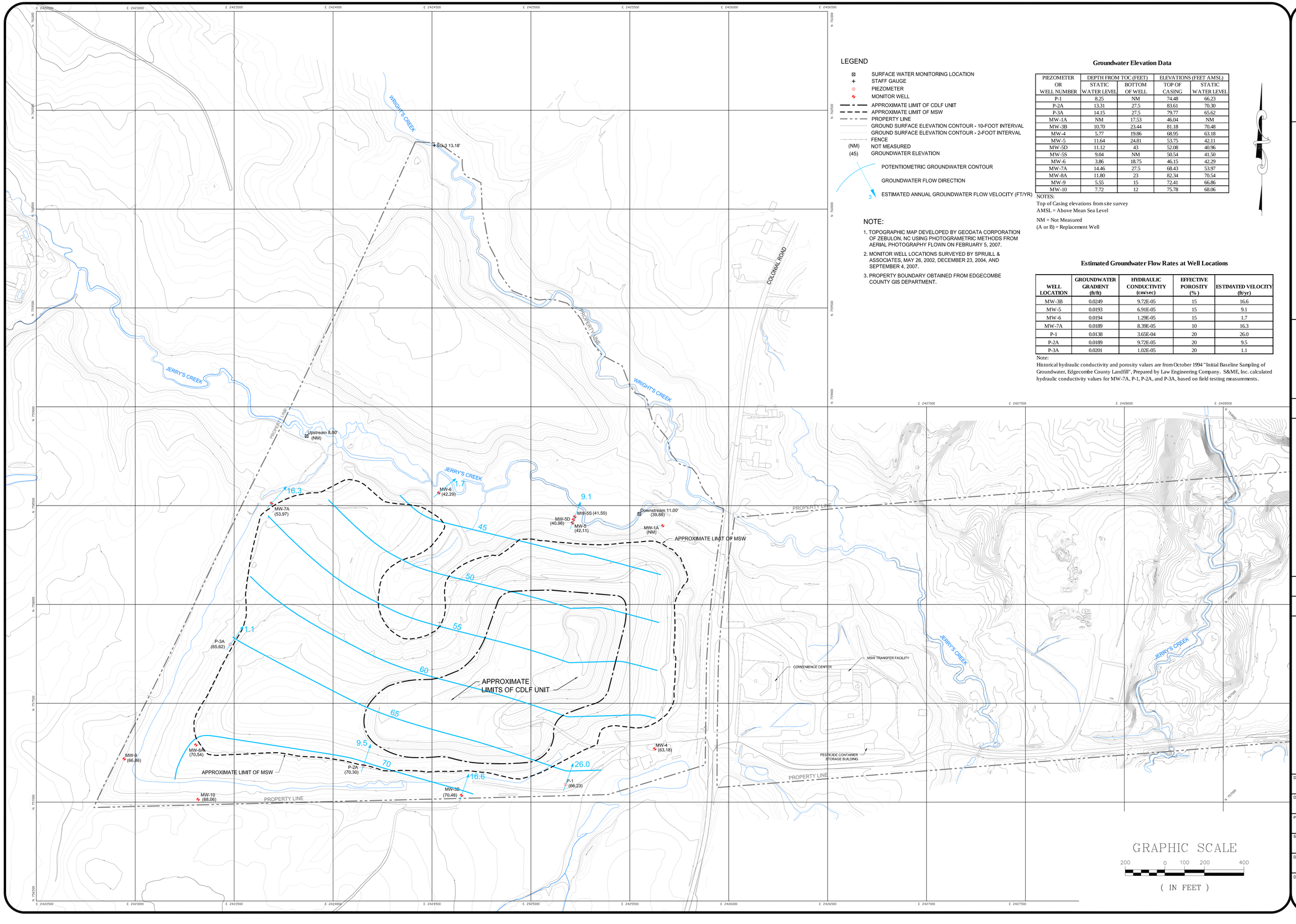


TOPO SOURCE: NCGS DRG
OLD SPARTA, NC (035077G5) DATED 1981

A-1053

SCALE: 1" = 2,000'	S&ME WWW.SMEINC.COM	VICINITY MAP	FIGURE NO.
DATE: FEB. 2008		JAN. 08 ENVIRONMENTAL COMPLIANCE MONITORING EDGECOMBE COUNTY LANDFILL TARBORO, NORTH CAROLINA	1
DRAWN BY:			
PROJECT NO: 1054-07-238			

S:\PROJECTS\2007\07-238 Edgecombe-Environ Monitoring\CAD\A1053.dwg, A1053, 3/13/2008 2:51:09 PM, 1:1



LEGEND

- SURFACE WATER MONITORING LOCATION
- STAFF GAUGE
- PIEZOMETER
- MONITOR WELL
- APPROXIMATE LIMIT OF CDLF UNIT
- APPROXIMATE LIMIT OF MSW
- PROPERTY LINE
- GROUND SURFACE ELEVATION CONTOUR - 10-FOOT INTERVAL
- GROUND SURFACE ELEVATION CONTOUR - 2-FOOT INTERVAL
- FENCE
- (NM) NOT MEASURED
- (45) GROUNDWATER ELEVATION
- POTENTIOMETRIC GROUNDWATER CONTOUR
- GROUNDWATER FLOW DIRECTION
- 3 ESTIMATED ANNUAL GROUNDWATER FLOW VELOCITY (FT/YR)

NOTE:

1. TOPOGRAPHIC MAP DEVELOPED BY GEODATA CORPORATION OF ZEBULON, NC USING PHOTOGRAMETRIC METHODS FROM AERIAL PHOTOGRAPHY FLOWN ON FEBRUARY 5, 2007.
2. MONITOR WELL LOCATIONS SURVEYED BY SPRUILL & ASSOCIATES, MAY 26, 2002, DECEMBER 23, 2004, AND SEPTEMBER 4, 2007.
3. PROPERTY BOUNDARY OBTAINED FROM EDGECOMBE COUNTY GIS DEPARTMENT.

Groundwater Elevation Data

PIEZOMETER OR WELL NUMBER	DEPTH FROM TOC (FEET)		ELEVATIONS (FEET AMSL)	
	STATIC WATER LEVEL	BOTTOM OF WELL	TOP OF CASING	STATIC WATER LEVEL
P-1	8.25	NM	74.48	66.23
P-2A	13.31	27.5	83.61	70.30
P-3A	14.15	27.5	79.77	65.62
MW-1A	NM	17.53	46.04	NM
MW-3B	10.70	23.44	81.18	70.48
MW-4	5.77	19.86	68.95	63.18
MW-5	11.64	24.81	53.75	42.11
MW-5D	11.12	43	52.08	40.96
MW-5S	9.04	NM	50.54	41.50
MW-6	3.86	18.75	46.15	42.29
MW-7A	14.46	27.5	68.43	53.97
MW-8A	11.80	23	82.34	70.54
MW-9	5.55	15	72.41	66.86
MW-10	7.72	12	75.78	68.06

NOTES:
Top of Casing elevations from site survey
AMSL = Above Mean Sea Level

NM = Not Measured
(A or B) = Replacement Well

Estimated Groundwater Flow Rates at Well Locations

WELL LOCATION	GROUNDWATER GRADIENT (ft/ft)	HYDRAULIC CONDUCTIVITY (cm/sec)	EFFECTIVE POROSITY (%)	ESTIMATED VELOCITY (ft/yr)
MW-3B	0.0249	9.72E-05	15	16.6
MW-5	0.0193	6.91E-05	15	9.1
MW-6	0.0194	1.29E-05	15	1.7
MW-7A	0.0189	8.39E-05	10	16.3
P-1	0.0138	3.65E-04	20	26.0
P-2A	0.0189	9.72E-05	20	9.5
P-3A	0.0201	1.02E-05	20	1.1

Note:
Historical hydraulic conductivity and porosity values are from October 1994 "Initial Baseline Sampling of Groundwater, Edgecombe County Landfill", Prepared by Law Engineering Company. S&ME, Inc. calculated hydraulic conductivity values for MW-7A, P-1, P-2A, and P-3A, based on field testing measurements.

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NO.	DATE	DESCRIPTION	BY

GROUNDWATER POTENTIOMETRIC MAP
JANUARY 9-11, 2008
ENVIRONMENTAL COMPLIANCE MONITORING

EDGECOMBE COUNTY LANDFILL
TARBORO, NORTH CAROLINA
FACILITY PERMIT NO. 33-01

DRAWN BY: BTR	CHECKED BY: MLL
DESIGNED BY:	APPROVED BY: SPW
PROJECT NUMBER: 1054-07-238	
SCALE: 1" = 200'	DATE: FEB. 2008
DRAWING NUMBER: D-1003-02	
DRAWING: 2	OF: 2

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TABLES

Table 1
Groundwater Elevation Data, Field Parameters, and
Groundwater Quality Summary
Edgecombe County Landfill
January 9-11, 2008
S&ME Project No. 1054-07-238

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Dilution Factor	Collection Date	Extraction Date	Analysis Date
33-01	P-1		318	Depth To Water	8.25	ft			1/9/2008		
33-01	P-1		411	Total Well Depth	NM	ft			1/9/2008		
33-01	P-1		328	TOC Elevation	74.48	ft AMSL			1/9/2008		
33-01	P-1		319	Groundwater Elevation	66.23	ft AMSL			1/9/2008		
33-01	P-2A		318	Depth To Water	13.31	ft			1/9/2008		
33-01	P-2A		411	Total Well Depth	27.50	ft			1/9/2008		
33-01	P-2A		328	TOC Elevation	83.61	ft AMSL			1/9/2008		
33-01	P-2A		319	Groundwater Elevation	70.30	ft AMSL			1/9/2008		
33-01	P-3A		318	Depth To Water	14.15	ft			1/9/2008		
33-01	P-3A		411	Total Well Depth	27.50	ft			1/9/2008		
33-01	P-3A		328	TOC Elevation	79.77	ft AMSL			1/9/2008		
33-01	P-3A		319	Groundwater Elevation	65.62	ft AMSL			1/9/2008		
33-01	MW-1A		318	Depth To Water	NM	ft			1/10/2008		
33-01	MW-1A		411	Total Well Depth	17.53	ft			1/10/2008		
33-01	MW-1A		328	TOC Elevation	46.04	ft AMSL			1/10/2008		
33-01	MW-1A		319	Groundwater Elevation	NM	ft AMSL			1/10/2008		
33-01	MW-1A		320	pH	5.89	standard units			1/10/2008		
33-01	MW-1A		323	Specific Conductivity	0.567	mS/cm			1/10/2008		
33-01	MW-1A		325	Temperature	13.42	°C			1/10/2008		
33-01	MW-1A		330	Turbidity	17.90	NTUs			1/10/2008		
33-01	MW-1A	7440-36-0	13	Antimony	0.0008	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-1A	7440-38-2	14	Arsenic	0.001	mg/l		1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-1A	7440-41-7	23	Beryllium	0.0003	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-1A	7440-43-9	34	Cadmium	0.00039	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-1A	7440-50-8	54	Copper	0.0054	mg/l		1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-1A	7782-49-2	183	Selenium	0.0031	mg/l		1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-1A	7440-28-0	194	Thallium	0.00035	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-1A	7440-66-6	213	Zinc	0.0096	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-1A	67-64-1	3	Acetone	0.05	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	107-13-1	8	Acrylonitrile	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	71-43-2	16	Benzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	74-97-5	28	Bromochloromethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	75-27-4	29	Bromodichloromethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	75-25-2	30	Bromoform	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	74-83-9	136	Bromomethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	75-15-0	35	Carbon disulfide	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	56-23-5	36	Carbon tetrachloride	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	108-90-7	39	Chlorobenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	124-48-1	66	Chlorodibromomethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	75-00-3	41	Chloroethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	67-66-3	44	Chloroform	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	74-87-3	137	Chloromethane	0.0025	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	74-95-3	139	Dibromomethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	95-50-1	69	1,2-Dichlorobenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	106-46-7	71	1,4-Dichlorobenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	110-57-6	73	trans-1,4-Dichloro-2-butene	0.0025	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	75-34-3	75	1,1-Dichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	107-06-2	76	1,2-Dichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	75-35-4	77	1,1-Dichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	156-59-2	78	cis-1,2-Dichloroethene	0.0014	mg/l		1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	156-60-5	79	trans-1,2-Dichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	78-87-5	82	1,2-Dichloropropane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	10061-01-5	86	cis-1,3-Dichloropropene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	10061-02-6	87	trans-1,3-Dichloropropene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	100-41-4	110	Ethylbenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	591-78-6	124	2-Hexanone	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	74-88-4	142	Iodomethane	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	78-93-3	141	2-Butanone (MEK)	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	75-09-2	140	Methylene Chloride	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	100-42-5	186	Styrene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	630-20-6	190	1,1,1,2-Tetrachloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	79-34-5	191	1,1,2,2-Tetrachloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	127-18-4	192	Tetrachloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	108-88-3	196	Toluene	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	71-55-6	200	1,1,1-Trichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	79-00-5	202	1,1,2-Trichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	79-01-6	201	Trichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	75-69-4	203	Trichlorofluoromethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	96-18-4	206	1,2,3-Trichloropropane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	108-05-4	210	Vinyl acetate	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	75-01-4	211	Vinyl chloride	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	1330-20-7	346	Xylenes, Total	0.003	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-1A	7439-97-6	132	Mercury	0.0002	mg/l	U	1	1/10/2008	1/13/2008	1/14/2008
33-01	MW-1A	7440-39-3	15	Barium	0.16	mg/l		1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-1A	7440-47-3	51	Chromium	3.10E-03	mg/l	J	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-1A	7440-48-4	53	Cobalt	0.0012	mg/l	J	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-1A	7439-92-1	131	Lead	0.005	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-1A	7440-02-0	152	Nickel	0.02	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-1A	7440-22-4	184	Silver	0.01	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-1A	7440-62-2	209	Vanadium	0.0056	mg/l	J	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-3B		318	Depth To Water	10.70	ft			1/9/2008		
33-01	MW-3B		411	Total Well Depth	23.44	ft			1/9/2008		
33-01	MW-3B		328	TOC Elevation	81.18	ft AMSL			1/9/2008		
33-01	MW-3B		319	Groundwater Elevation	70.48	ft AMSL			1/9/2008		
33-01	MW-3B		320	pH	5.21	standard units			1/9/2008		
33-01	MW-3B		323	Specific Conductivity	0.250	mS/cm			1/9/2008		
33-01	MW-3B		325	Temperature	15.60	°C			1/9/2008		
33-01	MW-3B		330	Turbidity	3.70	NTUs			1/9/2008		
33-01	MW-3B	7440-36-0	13	Antimony	0.00053	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-3B	7440-38-2	14	Arsenic	0.0051	mg/l		1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-3B	7440-43-9	34	Cadmium	0.001	mg/l		1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-3B	7440-50-8	54	Copper	0.00055	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-3B	7782-49-2	183	Selenium	0.0014	mg/l		1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-3B	7440-28-0	194	Thallium	0.00036	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-3B	7440-66-6	213	Zinc	0.055	mg/l		1	1/10/2008	1/12/2008	1/13/2008

Table 1
Groundwater Elevation Data, Field Parameters, and
Groundwater Quality Summary
Edgecombe County Landfill
January 9-11, 2008
S&ME Project No. 1054-07-238

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Dilution Factor	Collection Date	Extraction Date	Analysis Date
33-01	MW-3B	7440-41-7	23	Beryllium	0.0025	mg/l	JO	5	1/10/2008	1/12/2008	1/14/2008
33-01	MW-3B	67-64-1	3	Acetone	0.05	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	107-13-1	8	Acrylonitrile	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	71-43-2	16	Benzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	74-97-5	28	Bromochloromethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	75-27-4	29	Bromodichloromethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	75-25-2	30	Bromoform	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	74-83-9	136	Bromomethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	75-15-0	35	Carbon disulfide	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	56-23-5	36	Carbon tetrachloride	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	108-90-7	39	Chlorobenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	124-48-1	66	Chlorodibromomethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	75-00-3	41	Chloroethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	67-66-3	44	Chloroform	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	74-87-3	137	Chloromethane	0.0025	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	74-95-3	139	Dibromomethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	95-50-1	69	1,2-Dichlorobenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	106-46-7	71	1,4-Dichlorobenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	110-57-6	73	trans-1,4-Dichloro-2-butene	0.0025	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	75-34-3	75	1,1-Dichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	107-06-2	76	1,2-Dichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	75-35-4	77	1,1-Dichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	156-59-2	78	cis-1,2-Dichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	156-60-5	79	trans-1,2-Dichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	78-87-5	82	1,2-Dichloropropane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	10061-01-5	86	cis-1,3-Dichloropropene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	10061-02-6	87	trans-1,3-Dichloropropene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	100-41-4	110	Ethylbenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	591-78-6	124	2-Hexanone	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	74-88-4	142	Iodomethane	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	78-93-3	141	2-Butanone (MEK)	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	75-09-2	140	Methylene Chloride	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	100-42-5	186	Styrene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	630-20-6	190	1,1,1,2-Tetrachloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	79-34-5	191	1,1,2,2-Tetrachloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	127-18-4	192	Tetrachloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	108-88-3	196	Toluene	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	71-55-6	200	1,1,1-Trichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	79-00-5	202	1,1,2-Trichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	79-01-6	201	Trichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	75-69-4	203	Trichlorofluoromethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	96-18-4	206	1,2,3-Trichloropropane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	108-05-4	210	Vinyl acetate	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	75-01-4	211	Vinyl chloride	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	1330-20-7	346	Xylenes, Total	0.003	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-3B	7439-97-6	132	Mercury	0.0002	mg/l	U	1	1/10/2008	1/13/2008	1/14/2008
33-01	MW-3B	7440-39-3	15	Barium	0.17	mg/l		1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-3B	7440-47-3	51	Chromium	0.01	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-3B	7440-48-4	53	Cobalt	0.026	mg/l		1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-3B	7439-92-1	131	Lead	0.005	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-3B	7440-02-0	152	Nickel	0.018	mg/l	J	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-3B	7440-22-4	184	Silver	0.01	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-3B	7440-62-2	209	Vanadium	0.0058	mg/l	J	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-4		318	Depth To Water	5.77	ft			1/10/2008		
33-01	MW-4		411	Total Well Depth	19.86	ft			1/10/2008		
33-01	MW-4		328	TOC Elevation	68.95	ft AMSL			1/10/2008		
33-01	MW-4		319	Groundwater Elevation	63.18	ft AMSL			1/10/2008		
33-01	MW-4		320	pH	5.90	standard units			1/10/2008		
33-01	MW-4		323	Specific Conductivity	0.198	mS/cm			1/10/2008		
33-01	MW-4		325	Temperature	15.26	ºC			1/10/2008		
33-01	MW-4		330	Turbidity	3.10	NTUs			1/10/2008		
33-01	MW-4	7440-36-0	13	Antimony	0.0013	mg/l		1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-4	7440-38-2	14	Arsenic	0.00056	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-4	7440-41-7	23	Beryllium	0.00029	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-4	7440-43-9	34	Cadmium	0.00047	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-4	7440-50-8	54	Copper	0.0037	mg/l		1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-4	7782-49-2	183	Selenium	0.0008	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-4	7440-28-0	194	Thallium	0.00034	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-4	7440-66-6	213	Zinc	0.01	mg/l	U	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-4	67-64-1	3	Acetone	0.05	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	107-13-1	8	Acrylonitrile	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	71-43-2	16	Benzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	74-97-5	28	Bromochloromethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	75-27-4	29	Bromodichloromethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	75-25-2	30	Bromoform	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	74-83-9	136	Bromomethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	75-15-0	35	Carbon disulfide	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	56-23-5	36	Carbon tetrachloride	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	108-90-7	39	Chlorobenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	124-48-1	66	Chlorodibromomethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	75-00-3	41	Chloroethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	67-66-3	44	Chloroform	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	74-87-3	137	Chloromethane	0.0025	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	74-95-3	139	Dibromomethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	95-50-1	69	1,2-Dichlorobenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	106-46-7	71	1,4-Dichlorobenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	110-57-6	73	trans-1,4-Dichloro-2-butene	0.0025	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	75-34-3	75	1,1-Dichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	107-06-2	76	1,2-Dichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	75-35-4	77	1,1-Dichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	156-59-2	78	cis-1,2-Dichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	156-60-5	79	trans-1,2-Dichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	78-87-5	82	1,2-Dichloropropane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	10061-01-5	86	cis-1,3-Dichloropropene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	10061-02-6	87	trans-1,3-Dichloropropene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008

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January 9-11, 2008
S&ME Project No. 1054-07-238

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Dilution Factor	Collection Date	Extraction Date	Analysis Date
33-01	MW-4	100-41-4	110	Ethylbenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	591-78-6	124	2-Hexanone	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	74-88-4	142	Iodomethane	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	78-93-3	141	2-Butanone (MEK)	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	75-09-2	140	Methylene Chloride	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	100-42-5	186	Styrene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	630-20-6	190	1,1,1,2-Tetrachloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	79-34-5	191	1,1,2,2-Tetrachloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	127-18-4	192	Tetrachloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	108-88-3	196	Toluene	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	71-55-6	200	1,1,1-Trichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	79-00-5	202	1,1,2-Trichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	79-01-6	201	Trichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	75-69-4	203	Trichlorofluoromethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	96-18-4	206	1,2,3-Trichloropropane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	108-05-4	210	Vinyl acetate	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	75-01-4	211	Vinyl chloride	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	1330-20-7	346	Xylenes, Total	0.003	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-4	7439-97-6	132	Mercury	0.0002	mg/l	U	1	1/10/2008	1/13/2008	1/14/2008
33-01	MW-4	7440-39-3	15	Barium	0.049	mg/l		1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-4	7440-47-3	51	Chromium	0.01	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-4	7440-48-4	53	Cobalt	0.0017	mg/l	J	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-4	7439-92-1	131	Lead	0.005	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-4	7440-02-0	152	Nickel	0.02	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-4	7440-22-4	184	Silver	0.01	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-4	7440-62-2	209	Vanadium	0.01	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-5		318	Depth To Water	11.64	ft			1/9/2008		
33-01	MW-5		411	Total Well Depth	24.81	ft			1/9/2008		
33-01	MW-5		328	TOC Elevation	53.75	ft AMSL			1/9/2008		
33-01	MW-5		319	Groundwater Elevation	42.11	ft AMSL			1/9/2008		
33-01	MW-5		320	pH	6.21	standard units			1/9/2008		
33-01	MW-5		323	Specific Conductivity	1.155	mS/cm			1/9/2008		
33-01	MW-5		325	Temperature	16.19	ºC			1/9/2008		
33-01	MW-5		330	Turbidity	2.10	NTUs			1/9/2008		
33-01	MW-5	7440-36-0	13	Antimony	0.0006	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-5	7440-38-2	14	Arsenic	0.021	mg/l		1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-5	7440-43-9	34	Cadmium	0.0004	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-5	7440-50-8	54	Copper	0.00068	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-5	7782-49-2	183	Selenium	0.00051	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-5	7440-28-0	194	Thallium	0.00041	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-5	7440-66-6	213	Zinc	0.058	mg/l		1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-5	7440-41-7	23	Beryllium	0.005	mg/l	U	5	1/10/2008	1/12/2008	1/14/2008
33-01	MW-5	67-64-1	3	Acetone	0.05	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	107-13-1	8	Acrylonitrile	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	71-43-2	16	Benzene	0.0026	mg/l		1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	74-97-5	28	Bromochloromethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	75-27-4	29	Bromodichloromethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	75-25-2	30	Bromoform	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	74-83-9	136	Bromomethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	75-15-0	35	Carbon disulfide	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	56-23-5	36	Carbon tetrachloride	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	108-90-7	39	Chlorobenzene	0.0075	mg/l		1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	124-48-1	66	Chlorodibromomethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	75-00-3	41	Chloroethane	0.0022	mg/l	J	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	67-66-3	44	Chloroform	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	74-87-3	137	Chloromethane	0.0025	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	74-95-3	139	Dibromomethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	95-50-1	69	1,2-Dichlorobenzene	0.00097	mg/l	J	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	106-46-7	71	1,4-Dichlorobenzene	0.006	mg/l		1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	110-57-6	73	trans-1,4-Dichloro-2-butene	0.0025	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	75-34-3	75	1,1-Dichloroethane	0.016	mg/l		1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	107-06-2	76	1,2-Dichloroethane	0.0014	mg/l		1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	75-35-4	77	1,1-Dichloroethene	0.0015	mg/l		1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	156-60-5	79	trans-1,2-Dichloroethene	0.0054	mg/l		1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	78-87-5	82	1,2-Dichloropropane	0.0012	mg/l		1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	10061-01-5	86	cis-1,3-Dichloropropene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	10061-02-6	87	trans-1,3-Dichloropropene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	100-41-4	110	Ethylbenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	591-78-6	124	2-Hexanone	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	74-88-4	142	Iodomethane	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	78-93-3	141	2-Butanone (MEK)	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	75-09-2	140	Methylene Chloride	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	100-42-5	186	Styrene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	630-20-6	190	1,1,1,2-Tetrachloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	79-34-5	191	1,1,2,2-Tetrachloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	127-18-4	192	Tetrachloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	108-88-3	196	Toluene	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	71-55-6	200	1,1,1-Trichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	79-00-5	202	1,1,2-Trichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	79-01-6	201	Trichloroethene	0.0094	mg/l		1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	75-69-4	203	Trichlorofluoromethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	96-18-4	206	1,2,3-Trichloropropane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	108-05-4	210	Vinyl acetate	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	75-01-4	211	Vinyl chloride	0.044	mg/l		1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	1330-20-7	346	Xylenes, Total	0.003	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-5	156-59-2	78	cis-1,2-Dichloroethene	0.48	mg/l		20	1/10/2008	1/14/2008	1/14/2008
33-01	MW-5	7439-97-6	132	Mercury	0.0002	mg/l	U	1	1/10/2008	1/13/2008	1/14/2008
33-01	MW-5	7440-39-3	15	Barium	0.22	mg/l		1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-5	7440-47-3	51	Chromium	1.00E-02	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-5	7440-48-4	53	Cobalt	0.13	mg/l		1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-5	7439-92-1	131	Lead	0.014	mg/l		1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-5	7440-02-0	152	Nickel	0.043	mg/l		1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-5	7440-22-4	184	Silver	0.0055	mg/l	J	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-5	7440-62-2	209	Vanadium	0.01	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008

Table 1
Groundwater Elevation Data, Field Parameters, and
Groundwater Quality Summary
Edgecombe County Landfill
January 9-11, 2008
S&ME Project No. 1054-07-238

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Dilution Factor	Collection Date	Extraction Date	Analysis Date
33-01	MW-5D		318	Depth To Water	11.12	ft			1/9/2008		
33-01	MW-5D		411	Total Well Depth	43.00	ft			1/9/2008		
33-01	MW-5D		328	TOC Elevation	52.08	ft AMSL			1/9/2008		
33-01	MW-5D		319	Groundwater Elevation	40.96	ft AMSL			1/9/2008		
33-01	MW-5S		318	Depth To Water	9.04	ft			1/9/2008		
33-01	MW-5S		411	Total Well Depth	NM	ft			1/9/2008		
33-01	MW-5S		328	TOC Elevation	50.54	ft AMSL			1/9/2008		
33-01	MW-5S		319	Groundwater Elevation	41.50	ft AMSL			1/9/2008		
33-01	MW-6		318	Depth To Water	3.86	ft.			1/9/2008		
33-01	MW-6		411	Total Well Depth	18.75	ft.			1/9/2008		
33-01	MW-6		328	TOC Elevation	46.29	ft AMSL			1/9/2008		
33-01	MW-6		319	Groundwater Elevation	42.43	ft AMSL			1/9/2008		
33-01	MW-6		320	pH	5.41	standard units			1/9/2008		
33-01	MW-6		323	Specific Conductivity	0.372	mS/cm			1/9/2008		
33-01	MW-6		325	Temperature	14.26	ºC			1/9/2008		
33-01	MW-6		330	Turbidity	19.40	NTUs			1/9/2008		
33-01	MW-6	7440-36-0	13	Antimony	0.00071	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-6	7440-38-2	14	Arsenic	0.0016	mg/l		1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-6	7440-41-7	23	Beryllium	0.00069	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-6	7440-43-9	34	Cadmium	0.00069	mg/l		1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-6	7440-50-8	54	Copper	0.0042	mg/l		1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-6	7782-49-2	183	Selenium	0.00091	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-6	7440-28-0	194	Thallium	0.00038	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-6	7440-66-6	213	Zinc	0.035	mg/l		1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-6	67-64-1	3	Acetone	0.05	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	107-13-1	8	Acrylonitrile	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	71-43-2	16	Benzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	74-97-5	28	Bromochloromethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	75-27-4	29	Bromodichloromethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	75-25-2	30	Bromoform	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	74-83-9	136	Bromomethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	75-15-0	35	Carbon disulfide	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	56-23-5	36	Carbon tetrachloride	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	108-90-7	39	Chlorobenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	124-48-1	66	Chlorodibromomethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	75-00-3	41	Chloroethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	67-66-3	44	Chloroform	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	74-87-3	137	Chloromethane	0.0025	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	74-95-3	139	Dibromomethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	95-50-1	69	1,2-Dichlorobenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	106-46-7	71	1,4-Dichlorobenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	110-57-6	73	trans-1,4-Dichloro-2-butene	0.0025	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	75-34-3	75	1,1-Dichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	107-06-2	76	1,2-Dichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	75-35-4	77	1,1-Dichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	156-59-2	78	cis-1,2-Dichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	156-60-5	79	trans-1,2-Dichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	78-87-5	82	1,2-Dichloropropane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	10061-01-5	86	cis-1,3-Dichloropropene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	10061-02-6	87	trans-1,3-Dichloropropene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	100-41-4	110	Ethylbenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	591-78-6	124	2-Hexanone	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	74-88-4	142	Iodomethane	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	78-93-3	141	2-Butanone (MEK)	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	75-09-2	140	Methylene Chloride	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	100-42-5	186	Styrene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	630-20-6	190	1,1,1,2-Tetrachloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	79-34-5	191	1,1,2,2-Tetrachloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	127-18-4	192	Tetrachloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	108-88-3	196	Toluene	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	71-55-6	200	1,1,1-Trichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	79-00-5	202	1,1,2-Trichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	79-01-6	201	Trichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	75-69-4	203	Trichlorofluoromethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	96-18-4	206	1,2,3-Trichloropropane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	108-05-4	210	Vinyl acetate	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	75-01-4	211	Vinyl chloride	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	1330-20-7	346	Xylenes, Total	0.003	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-6	7439-97-6	132	Mercury	0.0002	mg/l	U	1	1/10/2008	1/13/2008	1/14/2008
33-01	MW-6	7440-39-3	15	Barium	0.077	mg/l		1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-6	7440-47-3	51	Chromium	0.01	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-6	7440-48-4	53	Cobalt	0.0066	mg/l	J	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-6	7439-92-1	131	Lead	0.005	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-6	7440-02-0	152	Nickel	0.02	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-6	7440-22-4	184	Silver	0.01	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-6	7440-62-2	209	Vanadium	0.01	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-7A		318	Depth To Water	14.46	ft			1/9/2008		
33-01	MW-7A		411	Total Well Depth	27.50	ft			1/9/2008		
33-01	MW-7A		328	TOC Elevation	68.43	ft AMSL			1/9/2008		
33-01	MW-7A		319	Groundwater Elevation	53.97	ft AMSL			1/9/2008		
33-01	MW-7A		320	pH	6.13	standard units			1/9/2008		
33-01	MW-7A		323	Specific Conductivity	1.192	mS/cm			1/9/2008		
33-01	MW-7A		325	Temperature	17.18	ºC			1/9/2008		
33-01	MW-7A		330	Turbidity	2.80	NTUs			1/9/2008		
33-01	MW-7A	7440-36-0	13	Antimony	0.00054	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-7A	7440-41-7	23	Beryllium	0.00027	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-7A	7440-43-9	34	Cadmium	0.00031	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-7A	7440-28-0	194	Thallium	0.00032	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-7A	7440-38-2	14	Arsenic	0.027	mg/l		5	1/10/2008	1/12/2008	1/14/2008
33-01	MW-7A	7440-50-8	54	Copper	0.005	mg/l	U	5	1/10/2008	1/12/2008	1/14/2008
33-01	MW-7A	7782-49-2	183	Selenium	0.0026	mg/l	J	5	1/10/2008	1/12/2008	1/14/2008
33-01	MW-7A	7440-66-6	213	Zinc	0.05	mg/l	U	5	1/10/2008	1/12/2008	1/14/2008
33-01	MW-7A	67-64-1	3	Acetone	0.05	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	107-13-1	8	Acrylonitrile	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	71-43-2	16	Benzene	0.0031	mg/l		1	1/10/2008	1/13/2008	1/13/2008

Table 1
Groundwater Elevation Data, Field Parameters, and
Groundwater Quality Summary
Edgecombe County Landfill
January 9-11, 2008
S&ME Project No. 1054-07-238

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Dilution Factor	Collection Date	Extraction Date	Analysis Date
33-01	MW-7A	74-97-5	28	Bromochloromethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	75-27-4	29	Bromodichloromethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	75-25-2	30	Bromoform	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	74-83-9	136	Bromomethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	75-15-0	35	Carbon disulfide	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	56-23-5	36	Carbon tetrachloride	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	108-90-7	39	Chlorobenzene	0.0034	mg/l		1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	124-48-1	66	Chlorodibromomethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	75-00-3	41	Chloroethane	0.0044	mg/l	J	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	67-66-3	44	Chloroform	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	74-87-3	137	Chloromethane	0.0025	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	74-95-3	139	Dibromomethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	95-50-1	69	1,2-Dichlorobenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	106-46-7	71	1,4-Dichlorobenzene	0.0016	mg/l		1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	110-57-6	73	trans-1,4-Dichloro-2-butene	0.0025	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	75-34-3	75	1,1-Dichloroethane	0.0004	mg/l	J	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	107-06-2	76	1,2-Dichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	75-35-4	77	1,1-Dichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	156-59-2	78	cis-1,2-Dichloroethene	0.0008	mg/l	J	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	156-60-5	79	trans-1,2-Dichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	78-87-5	82	1,2-Dichloropropane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	10061-01-5	86	cis-1,3-Dichloropropene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	10061-02-6	87	trans-1,3-Dichloropropene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	100-41-4	110	Ethylbenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	591-78-6	124	2-Hexanone	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	74-88-4	142	Iodomethane	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	78-93-3	141	2-Butanone (MEK)	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	75-09-2	140	Methylene Chloride	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	100-42-5	186	Styrene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	630-20-6	190	1,1,1,2-Tetrachloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	79-34-5	191	1,1,2,2-Tetrachloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	127-18-4	192	Tetrachloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	108-88-3	196	Toluene	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	71-55-6	200	1,1,1-Trichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	79-00-5	202	1,1,2-Trichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	79-01-6	201	Trichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	75-69-4	203	Trichlorofluoromethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	96-18-4	206	1,2,3-Trichloropropane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	108-05-4	210	Vinyl acetate	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	75-01-4	211	Vinyl chloride	0.00061	mg/l	J	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	1330-20-7	346	Xylenes, Total	0.003	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-7A	7439-97-6	132	Mercury	0.0002	mg/l	U	1	1/10/2008	1/13/2008	1/14/2008
33-01	MW-7A	7440-39-3	15	Barium	0.09	mg/l		1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-7A	7440-47-3	51	Chromium	0.01	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-7A	7440-48-4	53	Cobalt	0.0052	mg/l	J	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-7A	7439-92-1	131	Lead	0.046	mg/l		1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-7A	7440-02-0	152	Nickel	0.018	mg/l	J	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-7A	7440-22-4	184	Silver	0.01	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-7A	7440-62-2	209	Vanadium	0.0038	mg/l	J	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-8A		318	Depth To Water	11.80	ft			1/9/2008		
33-01	MW-8A		411	Total Well Depth	23.00	ft			1/9/2008		
33-01	MW-8A		328	TOC Elevation	82.34	ft AMSL			1/9/2008		
33-01	MW-8A		319	Groundwater Elevation	70.54	ft AMSL			1/9/2008		
33-01	MW-9		318	Depth To Water	5.55	ft			1/9/2008		
33-01	MW-9		411	Total Well Depth	15.00	ft			1/9/2008		
33-01	MW-9		328	TOC Elevation	72.41	ft AMSL			1/9/2008		
33-01	MW-9		319	Groundwater Elevation	66.86	ft AMSL			1/9/2008		
33-01	MW-9		320	pH	6.41	standard units			1/9/2008		
33-01	MW-9		323	Specific Conductivity	0.187	mS/cm			1/9/2008		
33-01	MW-9		325	Temperature	20.13	ºC			1/9/2008		
33-01	MW-9		330	Turbidity	6.80	NTUs			1/9/2008		
33-01	MW-9	7440-36-0	13	Antimony	0.00076	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-9	7440-38-2	14	Arsenic	0.0005	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-9	7440-41-7	23	Beryllium	0.00026	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-9	7440-43-9	34	Cadmium	0.00032	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-9	7440-50-8	54	Copper	0.001	mg/l	U	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-9	7782-49-2	183	Selenium	0.00044	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-9	7440-28-0	194	Thallium	0.00031	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-9	7440-66-6	213	Zinc	0.0078	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	MW-9	67-64-1	3	Acetone	0.05	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	107-13-1	8	Acrylonitrile	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	71-43-2	16	Benzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	74-97-5	28	Bromochloromethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	75-27-4	29	Bromodichloromethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	75-25-2	30	Bromoform	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	74-83-9	136	Bromomethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	75-15-0	35	Carbon disulfide	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	56-23-5	36	Carbon tetrachloride	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	108-90-7	39	Chlorobenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	124-48-1	66	Chlorodibromomethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	75-00-3	41	Chloroethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	67-66-3	44	Chloroform	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	74-87-3	137	Chloromethane	0.0025	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	74-95-3	139	Dibromomethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	95-50-1	69	1,2-Dichlorobenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	106-46-7	71	1,4-Dichlorobenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	110-57-6	73	trans-1,4-Dichloro-2-butene	0.0025	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	75-34-3	75	1,1-Dichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	107-06-2	76	1,2-Dichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	75-35-4	77	1,1-Dichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	156-59-2	78	cis-1,2-Dichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	156-60-5	79	trans-1,2-Dichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	78-87-5	82	1,2-Dichloropropane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	10061-01-5	86	cis-1,3-Dichloropropene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	10061-02-6	87	trans-1,3-Dichloropropene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008

Table 1
Groundwater Elevation Data, Field Parameters, and
Groundwater Quality Summary
Edgecombe County Landfill
January 9-11, 2008
S&ME Project No. 1054-07-238

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Dilution Factor	Collection Date	Extraction Date	Analysis Date
33-01	MW-9	100-41-4	110	Ethylbenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	591-78-6	124	2-Hexanone	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	74-88-4	142	Iodomethane	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	78-93-3	141	2-Butanone (MEK)	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	75-09-2	140	Methylene Chloride	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	100-42-5	186	Styrene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	630-20-6	190	1,1,1,2-Tetrachloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	79-34-5	191	1,1,2,2-Tetrachloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	127-18-4	192	Tetrachloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	108-88-3	196	Toluene	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	71-55-6	200	1,1,1-Trichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	79-00-5	202	1,1,2-Trichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	79-01-6	201	Trichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	75-69-4	203	Trichlorofluoromethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	96-18-4	206	1,2,3-Trichloropropane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	108-05-4	210	Vinyl acetate	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	75-01-4	211	Vinyl chloride	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	1330-20-7	346	Xylenes, Total	0.003	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	MW-9	7439-97-6	132	Mercury	0.0002	mg/l	U	1	1/10/2008	1/13/2008	1/14/2008
33-01	MW-9	7440-39-3	15	Barium	0.25	mg/l		1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-9	7440-47-3	51	Chromium	0.01	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-9	7440-48-4	53	Cobalt	0.01	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-9	7439-92-1	131	Lead	0.005	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-9	7440-02-0	152	Nickel	0.02	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-9	7440-22-4	184	Silver	0.01	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-9	7440-62-2	209	Vanadium	0.01	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	MW-10		318	Depth To Water	4.72	ft			1/9/2008		
33-01	MW-10		411	Total Well Depth	12.00	ft			1/9/2008		
33-01	MW-10		328	TOC Elevation	75.78	ft AMSL			1/9/2008		
33-01	MW-10		319	Groundwater Elevation	71.06	ft AMSL			1/9/2008		
33-01	UPSTREAM		320	pH	6.60	standard units			1/10/2008		
33-01	UPSTREAM		323	Specific Conductivity	0.206	mS/cm			1/10/2008		
33-01	UPSTREAM		325	Temperature	11.24	°C			1/10/2008		
33-01	UPSTREAM		330	Turbidity	5.90	NTUs			1/10/2008		
33-01	UPSTREAM	7440-36-0	13	Antimony	0.00057	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	UPSTREAM	7440-38-2	14	Arsenic	0.00074	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	UPSTREAM	7440-41-7	23	Beryllium	0.00029	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	UPSTREAM	7440-43-9	34	Cadmium	0.00037	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	UPSTREAM	7440-50-8	54	Copper	0.0021	mg/l		1	1/10/2008	1/12/2008	1/13/2008
33-01	UPSTREAM	7782-49-2	183	Selenium	0.00076	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	UPSTREAM	7440-28-0	194	Thallium	0.00033	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	UPSTREAM	7440-66-6	213	Zinc	0.017	mg/l		1	1/10/2008	1/12/2008	1/13/2008
33-01	UPSTREAM	67-64-1	3	Acetone	0.05	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	107-13-1	8	Acrylonitrile	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	71-43-2	16	Benzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	74-97-5	28	Bromochloromethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	75-27-4	29	Bromodichloromethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	75-25-2	30	Bromoform	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	74-83-9	136	Bromomethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	75-15-0	35	Carbon disulfide	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	56-23-5	36	Carbon tetrachloride	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	108-90-7	39	Chlorobenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	124-48-1	66	Chlorodibromomethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	75-00-3	41	Chloroethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	67-66-3	44	Chloroform	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	74-87-3	137	Chloromethane	0.0025	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	74-95-3	139	Dibromomethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	95-50-1	69	1,2-Dichlorobenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	106-46-7	71	1,4-Dichlorobenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	110-57-6	73	trans-1,4-Dichloro-2-butene	0.0025	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	75-34-3	75	1,1-Dichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	107-06-2	76	1,2-Dichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	75-35-4	77	1,1-Dichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	156-59-2	78	cis-1,2-Dichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	156-60-5	79	trans-1,2-Dichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	78-87-5	82	1,2-Dichloropropane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	10061-01-5	86	cis-1,3-Dichloropropene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	10061-02-6	87	trans-1,3-Dichloropropene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	100-41-4	110	Ethylbenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	591-78-6	124	2-Hexanone	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	74-88-4	142	Iodomethane	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	78-93-3	141	2-Butanone (MEK)	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	75-09-2	140	Methylene Chloride	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	100-42-5	186	Styrene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	630-20-6	190	1,1,1,2-Tetrachloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	79-34-5	191	1,1,2,2-Tetrachloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	127-18-4	192	Tetrachloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	108-88-3	196	Toluene	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	71-55-6	200	1,1,1-Trichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	79-00-5	202	1,1,2-Trichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	79-01-6	201	Trichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	75-69-4	203	Trichlorofluoromethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	96-18-4	206	1,2,3-Trichloropropane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	108-05-4	210	Vinyl acetate	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	75-01-4	211	Vinyl chloride	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	1330-20-7	346	Xylenes, Total	0.003	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	UPSTREAM	7439-97-6	132	Mercury	0.0002	mg/l	U	1	1/10/2008	1/13/2008	1/14/2008
33-01	UPSTREAM	7440-39-3	15	Barium	0.097	mg/l		1	1/10/2008	1/14/2008	1/14/2008
33-01	UPSTREAM	7440-47-3	51	Chromium	0.01	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	UPSTREAM	7440-48-4	53	Cobalt	0.0011	mg/l	J	1	1/10/2008	1/14/2008	1/14/2008
33-01	UPSTREAM	7439-92-1	131	Lead	0.005	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	UPSTREAM	7440-02-0	152	Nickel	0.02	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	UPSTREAM	7440-22-4	184	Silver	0.01	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	UPSTREAM	7440-62-2	209	Vanadium	0.01	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008

Table 1
Groundwater Elevation Data, Field Parameters, and
Groundwater Quality Summary
Edgecombe County Landfill
January 9-11, 2008
S&ME Project No. 1054-07-238

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Dilution Factor	Collection Date	Extraction Date	Analysis Date
33-01	DOWNSTREAM		320	pH	6.45	standard units			1/10/2008		
33-01	DOWNSTREAM		323	Specific Conductivity	0.258	mS/cm			1/10/2008		
33-01	DOWNSTREAM		325	Temperature	10.07	ºC			1/10/2008		
33-01	DOWNSTREAM		330	Turbidity	4.50	NTUs			1/10/2008		
33-01	DOWNSTREAM	7440-36-0	13	Antimony	0.00062	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	DOWNSTREAM	7440-38-2	14	Arsenic	0.00089	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	DOWNSTREAM	7440-41-7	23	Beryllium	0.0003	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	DOWNSTREAM	7440-43-9	34	Cadmium	0.00039	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	DOWNSTREAM	7440-50-8	54	Copper	0.0012	mg/l		1	1/10/2008	1/12/2008	1/13/2008
33-01	DOWNSTREAM	7782-49-2	183	Selenium	0.00085	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	DOWNSTREAM	7440-28-0	194	Thallium	0.00034	mg/l	J	1	1/10/2008	1/12/2008	1/13/2008
33-01	DOWNSTREAM	7440-66-6	213	Zinc	0.024	mg/l		1	1/10/2008	1/12/2008	1/13/2008
33-01	DOWNSTREAM	67-64-1	3	Acetone	0.05	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	107-13-1	8	Acrylonitrile	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	71-43-2	16	Benzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	74-97-5	28	Bromochloromethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	75-27-4	29	Bromodichloromethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	75-25-2	30	Bromoform	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	74-83-9	136	Bromomethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	75-15-0	35	Carbon disulfide	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	56-23-5	36	Carbon tetrachloride	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	108-90-7	39	Chlorobenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	124-48-1	66	Chlorodibromomethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	75-00-3	41	Chloroethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	67-66-3	44	Chloroform	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	74-87-3	137	Chloromethane	0.0025	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	74-95-3	139	Dibromomethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	95-50-1	69	1,2-Dichlorobenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	106-46-7	71	1,4-Dichlorobenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	110-57-6	73	trans-1,4-Dichloro-2-butene	0.0025	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	75-34-3	75	1,1-Dichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	107-06-2	76	1,2-Dichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	75-35-4	77	1,1-Dichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	156-59-2	78	cis-1,2-Dichloroethene	0.00068	mg/l	J	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	156-60-5	79	trans-1,2-Dichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	78-87-5	82	1,2-Dichloropropane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	10061-01-5	86	cis-1,3-Dichloropropene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	10061-02-6	87	trans-1,3-Dichloropropene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	100-41-4	110	Ethylbenzene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	591-78-6	124	2-Hexanone	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	74-88-4	142	Iodomethane	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	78-93-3	141	2-Butanone (MEK)	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	75-09-2	140	Methylene Chloride	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	108-10-1	147	4-Methyl-2-pentanone (MIBK)	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	100-42-5	186	Styrene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	630-20-6	190	1,1,1,2-Tetrachloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	79-34-5	191	1,1,2,2-Tetrachloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	127-18-4	192	Tetrachloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	108-88-3	196	Toluene	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	71-55-6	200	1,1,1-Trichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	79-00-5	202	1,1,2-Trichloroethane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	79-01-6	201	Trichloroethene	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	75-69-4	203	Trichlorofluoromethane	0.005	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	96-18-4	206	1,2,3-Trichloropropane	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	108-05-4	210	Vinyl acetate	0.01	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	75-01-4	211	Vinyl chloride	0.001	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	1330-20-7	346	Xylenes, Total	0.003	mg/l	U	1	1/10/2008	1/13/2008	1/13/2008
33-01	DOWNSTREAM	7439-97-6	132	Mercury	0.0002	mg/l	U	1	1/10/2008	1/13/2008	1/14/2008
33-01	DOWNSTREAM	7440-39-3	15	Barium	0.088	mg/l		1	1/10/2008	1/14/2008	1/14/2008
33-01	DOWNSTREAM	7440-47-3	51	Chromium	0.01	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	DOWNSTREAM	7440-48-4	53	Cobalt	0.004	mg/l	J	1	1/10/2008	1/14/2008	1/14/2008
33-01	DOWNSTREAM	7439-92-1	131	Lead	0.005	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	DOWNSTREAM	7440-02-0	152	Nickel	0.02	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	DOWNSTREAM	7440-22-4	184	Silver	0.01	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008
33-01	DOWNSTREAM	7440-62-2	209	Vanadium	0.01	mg/l	U	1	1/10/2008	1/14/2008	1/14/2008

NOTES:
U = Compound detected below laboratory method detection limit.
B = Compound also detected in laboratory batch blank.
J = Analyte detected, but below the laboratory reporting limit therefore the result is an estimated concentration.
ft. = feet
NM = Not Measured
TOC = Top of Casing; TOC elevations from site survey.
AMSL = Above Mean Sea Level
(A or B) = Replacement Well
mS/cm = microsiemens/centimeter
ºC = Degrees Celcius
NTUs = Nephelometric Turbidity Units
ug/L = micrograms per liter
mg/L = milligrams per liter
Blank entries indicate not applicable.

Table 2
Estimated Groundwater Flow Rates at Well Locations
Edgecombe County Landfill
January 9-11, 2008 Sampling Event
S&ME Project No. 1054-07-238

WELL LOCATION	GROUNDWATER GRADIENT (ft/ft)	HYDRAULIC CONDUCTIVITY (cm/sec)	EFFECTIVE POROSITY (%)	ESTIMATED VELOCITY (ft/yr)
MW-3B	0.0249	9.72E-05	15	16.6
MW-5	0.0193	6.91E-05	15	9.1
MW-6	0.0194	1.29E-05	15	1.7
MW-7A	0.0189	8.39E-05	10	16.3
P-1	0.0138	3.65E-04	20	26.0
P-2A	0.0189	9.72E-05	20	9.5
P-3A	0.0201	1.02E-05	20	1.1

Note:
Historical hydraulic conductivity and porosity values are from October 1994 "Initial Baseline Sampling of Groundwater, Edgecombe County Landfill", Prepared by Law Engineering Company. S&ME, Inc. calculated hydraulic conductivity values for MW-7A, P-1, P-2A, and P-3A, based on field testing measurements.

Table 3
Groundwater/Surface Water Quality Summary
Edgecombe County Landfill
January 9-11, 2008 Sampling Event
S&ME Project No. 1054-07-238

APPENDIX I VOCs EPA METHOD 8260	UNITS	2L STANDARD	BACKGROUND MONITOR WELLS			COMPLIANCE MONITOR WELLS				QUALITY CONTROL		SAMPLING LOCATION		SWSL
			MW-3B	MW-4	MW-9	MW-1A	MW-5	MW-6	MW-7A	Duplicate (MW-5)	EQUIP BLANK	UPSTREAM	DOWNSTREAM	
BENZENE	µg/L	1	<0.29	<0.29	<0.29	<0.29	**2.6**	<0.29	**3.1**	**2.8**	<0.29	<0.29	<0.29	1
CHLOROBENZENE	µg/L	50	<0.26	<0.26	<0.26	<0.26	7.5	<0.26	3.4	7.9	<0.26	<0.26	<0.26	3
CHLOROETHANE	µg/L	2,800	<0.86	<0.86	<0.86	<0.86	2.2J	<0.86	4.4J	2.9J	<0.86	<0.86	<0.86	10
CHLOROFORM	µg/L	70	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.40J	<0.33	<0.33	5
1,2-DICHLOROBENZENE	µg/L	24	<0.29	<0.29	<0.29	<0.29	0.97J	<0.29	<0.29	1.0	<0.29	<0.29	<0.29	5
1,4-DICHLOROBENZENE	µg/L	1.4	<0.30	<0.30	<0.30	<0.30	**6.0**	<0.30	**1.6**	**6.3**	<0.30	<0.30	<0.30	1
1,1-DICHLOROETHANE	µg/L	70	<0.31	<0.31	<0.31	<0.31	16	<0.31	0.40J	17	<0.31	<0.31	<0.31	5
1,2-DICHLOROETHANE	µg/L	0.38	<0.27	<0.27	<0.27	<0.27	**1.4**	<0.27	<0.27	**1.4**	<0.27	<0.27	<0.27	1
1,1-DICHLOROETHENE	µg/L	7	<0.50	<0.50	<0.50	<0.50	1.5	<0.50	<0.50	1.8	<0.50	<0.50	<0.50	5
C-1,2 DICHLOROETHENE	µg/L	70	<0.38	<0.38	<0.38	1.4	**480**	<0.38	0.80J	**590**	<0.38	<0.38	0.68J	5
t-1,2-DICHLOROETHENE	µg/L	100	<0.30	<0.30	<0.30	<0.30	5.4	<0.30	<0.30	6.0	<0.30	<0.30	<0.30	5
1,2-DICHLOROPROPANE	µg/L	0.51	<0.52	<0.52	<0.52	<0.52	**1.2**	<0.52	<0.52	**1.2**	<0.52	<0.52	<0.52	1
TETRACHLOROETHENE	µg/L	0.7	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	0.43J	<0.29	<0.29	<0.29	1
TOLUENE	µg/L	1,000	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.32J	<0.27	<0.27	<0.27	1
TRICHLOROETHENE	µg/L	2.8	<0.37	<0.37	<0.37	<0.37	**9.4**	<0.37	<0.37	**11**	<0.37	<0.37	<0.37	1
VINYL CHLORIDE	µg/L	0.015	<0.27	<0.27	<0.27	<0.27	**44**	<0.27	**0.61J**	**46**	<0.27	<0.27	<0.27	1
APP. I INORGANIC COMPOUNDS EPA METHOD 6010/6020	**UNITS**	**2L STANDARD**	**BACKGROUND MONITOR WELLS**			**COMPLIANCE MONITOR WELLS**				**QUALITY CONTROL**		**SAMPLING LOCATION**		**SWSL**
			MW-3B	**MW-4**	**MW-9**	**MW-1A**	**MW-5**	**MW-6**	**MW-7A**	**Duplicate (MW-5)**	**EQUIP BLANK**	**UPSTREAM**	**DOWNSTREAM**	
ANTIMONY	mg/L	0.0014*	0.00053J	0.0013	0.00076J	0.0008J	0.0006J	0.00071J	0.00054J	0.00057J	0.00051J	0.00057J	0.00062J	0.006
ARSENIC	mg/L	0.05	0.0051	0.00056J	0.0005J	0.001	0.021	0.0016	0.027	0.021	<0.00015	0.00074J	0.00089J	0.01
BARIUM	mg/L	2	0.17	0.049	0.25	0.16	0.22	0.077	0.09	0.2	0.0012J	0.097	0.088	0.1
BERYLLIUM	mg/L	0.004	0.0025J	0.00029J	0.00026J	0.0003J	<0.0012	0.00069J	0.00027J	0.0013J	0.00027J	0.00029J	0.0003J	0.001
CADMIUM	mg/L	0.002	0.001	0.00047J	0.00032J	0.00039J	0.0004J	0.00069	0.00031J	0.00039J	0.00032J	0.00037J	0.00039J	0.001
CHROMIUM	mg/L	0.05	<0.0023	<0.0023	<0.0023	0.0031J	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	0.01
COBALT	mg/L	0.070*	0.026	0.0017J	<0.0011	0.0012J	**0.13**	0.0066J	0.0052J	**0.13**	<0.0011	0.0011J	0.0004J	0.01
COPPER	mg/L	1	0.00055J	0.0037	<0.00045	0.0054	0.00068J	0.0042	<0.0022	0.00061J	0.00047J	0.0021	0.0012	0.01
LEAD	mg/L	0.015	<0.0024	<0.0024	<0.0024	<0.0024	0.014	<0.0024	**0.046**	0.012	<0.0024	<0.0024	<0.0024	0.01
NICKEL	mg/L	0.1	0.018J	<0.0098	<0.0098	<0.0098	0.043	<0.0098	0.018J	0.044	<0.0098	<0.0098	<0.0098	0.05
SELENIUM	mg/L	0.05	0.0014	0.0008J	0.00044J	0.0031	0.00051J	0.00091J	0.0026J	0.00056J	<0.00043	0.00076J	0.00085J	0.01
SILVER	mg/L	0.018	<0.0025	<0.0025	<0.0025	<0.0025	0.0055J	<0.0025	<0.0025	0.0048J	<0.0025	<0.0025	<0.0025	0.01
THALLIUM	mg/L	0.00028*	**0.00036J**	**0.00034J**	**0.00031J**	**0.00035J**	**0.00041J**	**0.00038J**	**0.00032J**	**0.00041J**	**0.00031J**	0.00033J	0.00034J	0.0055
VANADIUM	mg/L	0.0035*	**0.0058J**	<0.0029	<0.0029	**0.0056J**	<0.0029	<0.0029	**0.0038J**	<0.0029	<0.0029	<0.0029	<0.0029	0.025
ZINC	mg/L	1.05	0.055	<0.0030	0.0078J	0.0096J	0.058	0.035	<0.015	0.062	<0.0030	0.017	0.024	0.01

NOTES:
Samples were collected on January 10, 2008 and analyzed by Environmental Science Corp Inc. (ESC). Detection limits are shown on laboratory reports.
Values which are **BOLD** and shaded indicate levels above their respective NCDENR 2L or GWPST.
2L STANDARD = North Carolina groundwater standards as promulgated by 15A North Carolina Administrative Code, Subchapter 2L.
SWSL = Solid Waste Section Limit. (ref. NC DENR-DWM, Solid Waste Section February 23, 2007 memorandum)
* Indicates there is currently no 2L Standard. The target analyte was compared to the Solid Waste Groundwater Protection Standard (GWPST).
J = Analyte detected, but below the laboratory reporting limit therefore the result is an estimated concentration.
µg/L = Micrograms Per Liter
mg/L = Milligrams Per Liter
VOCs = Volatile Organic Compounds
Duplicate sample collected from monitor well MW-5.
Compounds not shown were not detected during this sampling event

APPENDIX I

REPORT OF LABORATORY ANALYSES

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

Raleigh, NC 27616

Report Summary

Friday January 18, 2008

Report Number: L327430
Samples Received: 01/12/08
Client Project: 1054-07-238

Description: Edgecomb County 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

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-01

Site ID :

Project # : 1054-07-238

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Sample ID : MW-1

Collected By : M Logut-B Bryant
Collection Date : 01/10/08 11:15

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	0.80	0.22	1.0	ug/l	6020	01/13/08	1	6
Arsenic	1.0	0.15	1.0	ug/l	6020	01/13/08	1	10
Beryllium	0.30	0.24	1.0	ug/l	6020	01/13/08	1	1
Cadmium	0.39	0.24	0.50	ug/l	6020	01/13/08	1	1
Copper	5.4	0.45	1.0	ug/l	6020	01/13/08	1	10
Selenium	3.1	0.43	1.0	ug/l	6020	01/13/08	1	10
Thallium	0.35	0.090	1.0	ug/l	6020	01/13/08	1	5.5
Zinc	9.6	3.0	10.	ug/l	6020	01/13/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	01/14/08	1	.2
Barium	160	1.0	5.0	ug/l	6010B	01/14/08	1	100
Chromium	3.1	2.3	10.	ug/l	6010B	01/14/08	1	10
Cobalt	1.2	1.1	10.	ug/l	6010B	01/14/08	1	10
Lead	U	2.4	5.0	ug/l	6010B	01/14/08	1	5
Nickel	U	9.8	20.	ug/l	6010B	01/14/08	1	50
Silver	U	2.5	10.	ug/l	6010B	01/14/08	1	10
Vanadium	5.6	2.9	10.	ug/l	6010B	01/14/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	01/13/08	1	100
Acrylonitrile	U	1.7	10.	ug/l	8260B	01/13/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	01/13/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	01/13/08	1	3
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	01/13/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	01/13/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	01/13/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	01/13/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	01/13/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	01/13/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	01/13/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	01/13/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	01/13/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	01/13/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	01/13/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	01/13/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	01/13/08	1	1
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	01/13/08	1	100
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	01/13/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	01/13/08	1	5
cis-1,2-Dichloroethene	1.4	0.38	1.0	ug/l	8260B	01/13/08	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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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-01

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Site ID :

Sample ID : MW-1

Project # : 1054-07-238

Collected By : M Logut-B Bryant
Collection Date : 01/10/08 11:15

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	01/13/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	01/13/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	01/13/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	01/13/08	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	01/13/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	01/13/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	01/13/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	01/13/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	01/13/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	01/13/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	01/13/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	01/13/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	01/13/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	01/13/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	01/13/08	1	1
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	01/13/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	01/13/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	01/13/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	01/13/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	01/13/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	01/13/08	1	4
Surrogate Recovery								
Toluene-d8	104.			% Rec.	8260B	01/13/08	1	
Dibromofluoromethane	88.9			% Rec.	8260B	01/13/08	1	
4-Bromofluorobenzene	87.9			% Rec.	8260B	01/13/08	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

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-02

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Site ID :

Sample ID : DOWNSTREAM

Project # : 1054-07-238

Collected By : M Logut-B Bryant
Collection Date : 01/10/08 11:25

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	0.62	0.22	1.0	ug/l	6020	01/13/08	1	6
Arsenic	0.89	0.15	1.0	ug/l	6020	01/13/08	1	10
Beryllium	0.30	0.24	1.0	ug/l	6020	01/13/08	1	1
Cadmium	0.39	0.24	0.50	ug/l	6020	01/13/08	1	1
Copper	1.2	0.45	1.0	ug/l	6020	01/13/08	1	10
Selenium	0.85	0.43	1.0	ug/l	6020	01/13/08	1	10
Thallium	0.34	0.090	1.0	ug/l	6020	01/13/08	1	5.5
Zinc	24.	3.0	10.	ug/l	6020	01/13/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	01/14/08	1	.2
Barium	88.	1.0	5.0	ug/l	6010B	01/14/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	01/14/08	1	10
Cobalt	4.0	1.1	10.	ug/l	6010B	01/14/08	1	10
Lead	U	2.4	5.0	ug/l	6010B	01/14/08	1	5
Nickel	U	9.8	20.	ug/l	6010B	01/14/08	1	50
Silver	U	2.5	10.	ug/l	6010B	01/14/08	1	10
Vanadium	U	2.9	10.	ug/l	6010B	01/14/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	01/13/08	1	100
Acrylonitrile	U	1.7	10.	ug/l	8260B	01/13/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	01/13/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	01/13/08	1	3
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	01/13/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	01/13/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	01/13/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	01/13/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	01/13/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	01/13/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	01/13/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	01/13/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	01/13/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	01/13/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	01/13/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	01/13/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	01/13/08	1	1
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	01/13/08	1	100
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	01/13/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	01/13/08	1	5
cis-1,2-Dichloroethene	0.68	0.38	1.0	ug/l	8260B	01/13/08	1	5

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

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-02

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Site ID :

Sample ID : DOWNSTREAM

Project # : 1054-07-238

Collected By : M Logut-B Bryant
Collection Date : 01/10/08 11:25

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	01/13/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	01/13/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	01/13/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	01/13/08	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	01/13/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	01/13/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	01/13/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	01/13/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	01/13/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	01/13/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	01/13/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	01/13/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	01/13/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	01/13/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	01/13/08	1	1
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	01/13/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	01/13/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	01/13/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	01/13/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	01/13/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	01/13/08	1	4
Surrogate Recovery								
Toluene-d8	105.			% Rec.	8260B	01/13/08	1	
Dibromofluoromethane	94.7			% Rec.	8260B	01/13/08	1	
4-Bromofluorobenzene	84.9			% Rec.	8260B	01/13/08	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

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-03

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Site ID :

Sample ID : MW-4

Project # : 1054-07-238

Collected By : M Logut-B Bryant
Collection Date : 01/10/08 12:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	1.3	0.22	1.0	ug/l	6020	01/13/08	1	6
Arsenic	0.56	0.15	1.0	ug/l	6020	01/13/08	1	10
Beryllium	0.29	0.24	1.0	ug/l	6020	01/13/08	1	1
Cadmium	0.47	0.24	0.50	ug/l	6020	01/13/08	1	1
Copper	3.7	0.45	1.0	ug/l	6020	01/13/08	1	10
Selenium	0.80	0.43	1.0	ug/l	6020	01/13/08	1	10
Thallium	0.34	0.090	1.0	ug/l	6020	01/13/08	1	5.5
Zinc	U	3.0	10.	ug/l	6020	01/13/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	01/14/08	1	.2
Barium	49.	1.0	5.0	ug/l	6010B	01/14/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	01/14/08	1	10
Cobalt	1.7	1.1	10.	ug/l	6010B	01/14/08	1	10
Lead	U	2.4	5.0	ug/l	6010B	01/14/08	1	5
Nickel	U	9.8	20.	ug/l	6010B	01/14/08	1	50
Silver	U	2.5	10.	ug/l	6010B	01/14/08	1	10
Vanadium	U	2.9	10.	ug/l	6010B	01/14/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	01/13/08	1	100
Acrylonitrile	U	1.7	10.	ug/l	8260B	01/13/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	01/13/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	01/13/08	1	3
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	01/13/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	01/13/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	01/13/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	01/13/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	01/13/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	01/13/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	01/13/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	01/13/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	01/13/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	01/13/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	01/13/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	01/13/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	01/13/08	1	1
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	01/13/08	1	100
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	01/13/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	01/13/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	01/13/08	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)
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REPORT OF ANALYSIS

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-03

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Site ID :

Sample ID : MW-4

Project # : 1054-07-238

Collected By : M Logut-B Bryant
Collection Date : 01/10/08 12:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	01/13/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	01/13/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	01/13/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	01/13/08	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	01/13/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	01/13/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	01/13/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	01/13/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	01/13/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	01/13/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	01/13/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	01/13/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	01/13/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	01/13/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	01/13/08	1	1
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	01/13/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	01/13/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	01/13/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	01/13/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	01/13/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	01/13/08	1	4
Surrogate Recovery								
Toluene-d8	105.			% Rec.	8260B	01/13/08	1	
Dibromofluoromethane	93.7			% Rec.	8260B	01/13/08	1	
4-Bromofluorobenzene	88.4			% Rec.	8260B	01/13/08	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

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-04

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Site ID :

Sample ID : MW-7A

Project # : 1054-07-238

Collected By : M Logut-B Bryant
Collection Date : 01/10/08 13:55

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	0.54	0.22	1.0	ug/l	6020	01/13/08	1	6
Arsenic	27.	0.75	5.0	ug/l	6020	01/14/08	5	10
Beryllium	0.27	0.24	1.0	ug/l	6020	01/13/08	1	1
Cadmium	0.31	0.24	0.50	ug/l	6020	01/13/08	1	1
Copper	U	2.2	5.0	ug/l	6020	01/14/08	5	10
Selenium	2.6	2.2	5.0	ug/l	6020	01/14/08	5	10
Thallium	0.32	0.090	1.0	ug/l	6020	01/13/08	1	5.5
Zinc	U	15.	50.	ug/l	6020	01/14/08	5	10
Mercury	U	0.044	0.20	ug/l	7470A	01/14/08	1	.2
Barium	90.	1.0	5.0	ug/l	6010B	01/14/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	01/14/08	1	10
Cobalt	5.2	1.1	10.	ug/l	6010B	01/14/08	1	10
Lead	46.	2.4	5.0	ug/l	6010B	01/14/08	1	5
Nickel	18.	9.8	20.	ug/l	6010B	01/14/08	1	50
Silver	U	2.5	10.	ug/l	6010B	01/14/08	1	10
Vanadium	3.8	2.9	10.	ug/l	6010B	01/14/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	01/13/08	1	100
Acrylonitrile	U	1.7	10.	ug/l	8260B	01/13/08	1	200
Benzene	3.1	0.29	1.0	ug/l	8260B	01/13/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	01/13/08	1	3
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	01/13/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	01/13/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	01/13/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	01/13/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	01/13/08	1	1
Chlorobenzene	3.4	0.26	1.0	ug/l	8260B	01/13/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	01/13/08	1	1
Chloroethane	4.4	0.86	5.0	ug/l	8260B	01/13/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	01/13/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	01/13/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	01/13/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	01/13/08	1	5
1,4-Dichlorobenzene	1.6	0.30	1.0	ug/l	8260B	01/13/08	1	1
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	01/13/08	1	100
1,1-Dichloroethane	0.40	0.31	1.0	ug/l	8260B	01/13/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	01/13/08	1	5
cis-1,2-Dichloroethene	0.80	0.38	1.0	ug/l	8260B	01/13/08	1	5

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

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-04

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Site ID :

Sample ID : MW-7A

Project # : 1054-07-238

Collected By : M Logut-B Bryant
Collection Date : 01/10/08 13:55

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	01/13/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	01/13/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	01/13/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	01/13/08	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	01/13/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	01/13/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	01/13/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	01/13/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	01/13/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	01/13/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	01/13/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	01/13/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	01/13/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	01/13/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	01/13/08	1	1
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	01/13/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	01/13/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	01/13/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	01/13/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	01/13/08	1	50
Vinyl chloride	0.61	0.27	1.0	ug/l	8260B	01/13/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	01/13/08	1	4
Surrogate Recovery								
Toluene-d8	106.			% Rec.	8260B	01/13/08	1	
Dibromofluoromethane	94.9			% Rec.	8260B	01/13/08	1	
4-Bromofluorobenzene	86.1			% Rec.	8260B	01/13/08	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

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-05

Site ID :

Project # : 1054-07-238

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Sample ID : UPSTREAM

Collected By : M Logut-B Bryant
Collection Date : 01/10/08 14:10

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	0.57	0.22	1.0	ug/l	6020	01/13/08	1	6
Arsenic	0.74	0.15	1.0	ug/l	6020	01/13/08	1	10
Beryllium	0.29	0.24	1.0	ug/l	6020	01/13/08	1	1
Cadmium	0.37	0.24	0.50	ug/l	6020	01/13/08	1	1
Copper	2.1	0.45	1.0	ug/l	6020	01/13/08	1	10
Selenium	0.76	0.43	1.0	ug/l	6020	01/13/08	1	10
Thallium	0.33	0.090	1.0	ug/l	6020	01/13/08	1	5.5
Zinc	17.	3.0	10.	ug/l	6020	01/13/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	01/14/08	1	.2
Barium	97.	1.0	5.0	ug/l	6010B	01/14/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	01/14/08	1	10
Cobalt	1.1	1.1	10.	ug/l	6010B	01/14/08	1	10
Lead	U	2.4	5.0	ug/l	6010B	01/14/08	1	5
Nickel	U	9.8	20.	ug/l	6010B	01/14/08	1	50
Silver	U	2.5	10.	ug/l	6010B	01/14/08	1	10
Vanadium	U	2.9	10.	ug/l	6010B	01/14/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	01/13/08	1	100
Acrylonitrile	U	1.7	10.	ug/l	8260B	01/13/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	01/13/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	01/13/08	1	3
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	01/13/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	01/13/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	01/13/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	01/13/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	01/13/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	01/13/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	01/13/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	01/13/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	01/13/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	01/13/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	01/13/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	01/13/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	01/13/08	1	1
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	01/13/08	1	100
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	01/13/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	01/13/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	01/13/08	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)
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REPORT OF ANALYSIS

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-05

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Site ID :

Sample ID : UPSTREAM

Project # : 1054-07-238

Collected By : M Logut-B Bryant
Collection Date : 01/10/08 14:10

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	01/13/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	01/13/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	01/13/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	01/13/08	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	01/13/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	01/13/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	01/13/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	01/13/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	01/13/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	01/13/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	01/13/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	01/13/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	01/13/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	01/13/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	01/13/08	1	1
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	01/13/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	01/13/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	01/13/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	01/13/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	01/13/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	01/13/08	1	4
Surrogate Recovery								
Toluene-d8	106.			% Rec.	8260B	01/13/08	1	
Dibromofluoromethane	95.8			% Rec.	8260B	01/13/08	1	
4-Bromofluorobenzene	86.9			% Rec.	8260B	01/13/08	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

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-06

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Site ID :

Sample ID : MW-9

Project # : 1054-07-238

Collected By : M Logut-B Bryant
Collection Date : 01/10/08 15:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	0.76	0.22	1.0	ug/l	6020	01/13/08	1	6
Arsenic	0.50	0.15	1.0	ug/l	6020	01/13/08	1	10
Beryllium	0.26	0.24	1.0	ug/l	6020	01/13/08	1	1
Cadmium	0.32	0.24	0.50	ug/l	6020	01/13/08	1	1
Copper	U	0.45	1.0	ug/l	6020	01/13/08	1	10
Selenium	0.44	0.43	1.0	ug/l	6020	01/13/08	1	10
Thallium	0.31	0.090	1.0	ug/l	6020	01/13/08	1	5.5
Zinc	7.8	3.0	10.	ug/l	6020	01/13/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	01/14/08	1	.2
Barium	250	1.0	5.0	ug/l	6010B	01/14/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	01/14/08	1	10
Cobalt	U	1.1	10.	ug/l	6010B	01/14/08	1	10
Lead	U	2.4	5.0	ug/l	6010B	01/14/08	1	5
Nickel	U	9.8	20.	ug/l	6010B	01/14/08	1	50
Silver	U	2.5	10.	ug/l	6010B	01/14/08	1	10
Vanadium	U	2.9	10.	ug/l	6010B	01/14/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	01/13/08	1	100
Acrylonitrile	U	1.7	10.	ug/l	8260B	01/13/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	01/13/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	01/13/08	1	3
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	01/13/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	01/13/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	01/13/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	01/13/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	01/13/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	01/13/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	01/13/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	01/13/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	01/13/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	01/13/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	01/13/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	01/13/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	01/13/08	1	1
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	01/13/08	1	100
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	01/13/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	01/13/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	01/13/08	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)
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REPORT OF ANALYSIS

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-06

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Site ID :

Sample ID : MW-9

Project # : 1054-07-238

Collected By : M Logut-B Bryant
Collection Date : 01/10/08 15:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	01/13/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	01/13/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	01/13/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	01/13/08	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	01/13/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	01/13/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	01/13/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	01/13/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	01/13/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	01/13/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	01/13/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	01/13/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	01/13/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	01/13/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	01/13/08	1	1
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	01/13/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	01/13/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	01/13/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	01/13/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	01/13/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	01/13/08	1	4
Surrogate Recovery								
Toluene-d8	106.			% Rec.	8260B	01/13/08	1	
Dibromofluoromethane	98.9			% Rec.	8260B	01/13/08	1	
4-Bromofluorobenzene	85.8			% Rec.	8260B	01/13/08	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

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-07

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Site ID :

Sample ID : MW-6

Project # : 1054-07-238

Collected By : M Logut-B Bryant
Collection Date : 01/10/08 15:35

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	0.71	0.22	1.0	ug/l	6020	01/13/08	1	6
Arsenic	1.6	0.15	1.0	ug/l	6020	01/13/08	1	10
Beryllium	0.69	0.24	1.0	ug/l	6020	01/13/08	1	1
Cadmium	0.69	0.24	0.50	ug/l	6020	01/13/08	1	1
Copper	4.2	0.45	1.0	ug/l	6020	01/13/08	1	10
Selenium	0.91	0.43	1.0	ug/l	6020	01/13/08	1	10
Thallium	0.38	0.090	1.0	ug/l	6020	01/13/08	1	5.5
Zinc	35.	3.0	10.	ug/l	6020	01/13/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	01/14/08	1	.2
Barium	77.	1.0	5.0	ug/l	6010B	01/14/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	01/14/08	1	10
Cobalt	6.6	1.1	10.	ug/l	6010B	01/14/08	1	10
Lead	U	2.4	5.0	ug/l	6010B	01/14/08	1	5
Nickel	U	9.8	20.	ug/l	6010B	01/14/08	1	50
Silver	U	2.5	10.	ug/l	6010B	01/14/08	1	10
Vanadium	U	2.9	10.	ug/l	6010B	01/14/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	01/13/08	1	100
Acrylonitrile	U	1.7	10.	ug/l	8260B	01/13/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	01/13/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	01/13/08	1	3
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	01/13/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	01/13/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	01/13/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	01/13/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	01/13/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	01/13/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	01/13/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	01/13/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	01/13/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	01/13/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	01/13/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	01/13/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	01/13/08	1	1
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	01/13/08	1	100
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	01/13/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	01/13/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	01/13/08	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)
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REPORT OF ANALYSIS

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-07

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Site ID :

Sample ID : MW-6

Project # : 1054-07-238

Collected By : M Logut-B Bryant
Collection Date : 01/10/08 15:35

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	01/13/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	01/13/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	01/13/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	01/13/08	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	01/13/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	01/13/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	01/13/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	01/13/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	01/13/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	01/13/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	01/13/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	01/13/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	01/13/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	01/13/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	01/13/08	1	1
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	01/13/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	01/13/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	01/13/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	01/13/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	01/13/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	01/13/08	1	4
Surrogate Recovery								
Toluene-d8	106.			% Rec.	8260B	01/13/08	1	
Dibromofluoromethane	101.			% Rec.	8260B	01/13/08	1	
4-Bromofluorobenzene	83.8			% Rec.	8260B	01/13/08	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

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-08

Site ID :

Project # : 1054-07-238

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Sample ID : MW-5

Collected By : M Logut-B Bryant
Collection Date : 01/10/08 16:10

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	0.60	0.22	1.0	ug/l	6020	01/13/08	1	6
Arsenic	21.	0.15	1.0	ug/l	6020	01/13/08	1	10
Beryllium	U	1.2	5.0	ug/l	6020	01/14/08	5	1
Cadmium	0.40	0.24	0.50	ug/l	6020	01/13/08	1	1
Copper	0.68	0.45	1.0	ug/l	6020	01/13/08	1	10
Selenium	0.51	0.43	1.0	ug/l	6020	01/13/08	1	10
Thallium	0.41	0.090	1.0	ug/l	6020	01/13/08	1	5.5
Zinc	58.	3.0	10.	ug/l	6020	01/13/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	01/14/08	1	.2
Barium	220	1.0	5.0	ug/l	6010B	01/14/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	01/14/08	1	10
Cobalt	130	1.1	10.	ug/l	6010B	01/14/08	1	10
Lead	14.	2.4	5.0	ug/l	6010B	01/14/08	1	5
Nickel	43.	9.8	20.	ug/l	6010B	01/14/08	1	50
Silver	5.5	2.5	10.	ug/l	6010B	01/14/08	1	10
Vanadium	U	2.9	10.	ug/l	6010B	01/14/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	01/13/08	1	100
Acrylonitrile	U	1.7	10.	ug/l	8260B	01/13/08	1	200
Benzene	2.6	0.29	1.0	ug/l	8260B	01/13/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	01/13/08	1	3
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	01/13/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	01/13/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	01/13/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	01/13/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	01/13/08	1	1
Chlorobenzene	7.5	0.26	1.0	ug/l	8260B	01/13/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	01/13/08	1	1
Chloroethane	2.2	0.86	5.0	ug/l	8260B	01/13/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	01/13/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	01/13/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	01/13/08	1	1
1,2-Dichlorobenzene	0.97	0.29	1.0	ug/l	8260B	01/13/08	1	5
1,4-Dichlorobenzene	6.0	0.30	1.0	ug/l	8260B	01/13/08	1	1
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	01/13/08	1	100
1,1-Dichloroethane	16.	0.31	1.0	ug/l	8260B	01/13/08	1	5
1,2-Dichloroethane	1.4	0.27	1.0	ug/l	8260B	01/13/08	1	1
1,1-Dichloroethene	1.5	0.50	1.0	ug/l	8260B	01/13/08	1	5
cis-1,2-Dichloroethene	480	7.6	20.	ug/l	8260B	01/14/08	20	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)
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-08

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Site ID :

Sample ID : MW-5

Project # : 1054-07-238

Collected By : M Logut-B Bryant
Collection Date : 01/10/08 16:10

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
trans-1,2-Dichloroethene	5.4	0.30	1.0	ug/l	8260B	01/13/08	1	5
1,2-Dichloropropane	1.2	0.52	1.0	ug/l	8260B	01/13/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	01/13/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	01/13/08	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	01/13/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	01/13/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	01/13/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	01/13/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	01/13/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	01/13/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	01/13/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	01/13/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	01/13/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	01/13/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	01/13/08	1	1
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	01/13/08	1	5
Trichloroethene	9.4	0.37	1.0	ug/l	8260B	01/13/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	01/13/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	01/13/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	01/13/08	1	50
Vinyl chloride	44.	0.27	1.0	ug/l	8260B	01/13/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	01/13/08	1	4
Surrogate Recovery								
Toluene-d8	106.			% Rec.	8260B	01/13/08	1	
Dibromofluoromethane	102.			% Rec.	8260B	01/13/08	1	
4-Bromofluorobenzene	84.8			% Rec.	8260B	01/13/08	1	

U = ND (Not Detected)
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REPORT OF ANALYSIS

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-09

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Site ID :

Sample ID : DUPLICATE

Project # : 1054-07-238

Collected By : M Logut-B Bryant
Collection Date : 01/10/08 00:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	0.57	0.22	1.0	ug/l	6020	01/13/08	1	6
Arsenic	21.	0.15	1.0	ug/l	6020	01/13/08	1	10
Beryllium	1.3	1.2	5.0	ug/l	6020	01/14/08	5	1
Cadmium	0.39	0.24	0.50	ug/l	6020	01/13/08	1	1
Copper	0.61	0.45	1.0	ug/l	6020	01/13/08	1	10
Selenium	0.56	0.43	1.0	ug/l	6020	01/13/08	1	10
Thallium	0.41	0.090	1.0	ug/l	6020	01/13/08	1	5.5
Zinc	62.	3.0	10.	ug/l	6020	01/13/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	01/14/08	1	.2
Barium	200	1.0	5.0	ug/l	6010B	01/14/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	01/14/08	1	10
Cobalt	130	1.1	10.	ug/l	6010B	01/14/08	1	10
Lead	12.	2.4	5.0	ug/l	6010B	01/14/08	1	5
Nickel	44.	9.8	20.	ug/l	6010B	01/14/08	1	50
Silver	4.8	2.5	10.	ug/l	6010B	01/14/08	1	10
Vanadium	U	2.9	10.	ug/l	6010B	01/14/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	01/17/08	1	100
Acrylonitrile	U	1.7	10.	ug/l	8260B	01/17/08	1	200
Benzene	2.8	0.29	1.0	ug/l	8260B	01/17/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	01/17/08	1	3
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	01/17/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	01/17/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	01/17/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	01/17/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	01/17/08	1	1
Chlorobenzene	7.9	0.26	1.0	ug/l	8260B	01/17/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	01/17/08	1	1
Chloroethane	2.9	0.86	5.0	ug/l	8260B	01/17/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	01/17/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	01/17/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	01/17/08	1	1
1,2-Dichlorobenzene	1.0	0.29	1.0	ug/l	8260B	01/17/08	1	5
1,4-Dichlorobenzene	6.3	0.30	1.0	ug/l	8260B	01/17/08	1	1
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	01/17/08	1	100
1,1-Dichloroethane	17.	0.31	1.0	ug/l	8260B	01/17/08	1	5
1,2-Dichloroethane	1.4	0.27	1.0	ug/l	8260B	01/17/08	1	1
1,1-Dichloroethene	1.8	0.50	1.0	ug/l	8260B	01/17/08	1	5
cis-1,2-Dichloroethene	590	1.9	5.0	ug/l	8260B	01/13/08	5	5

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

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-09

Site ID :

Project # : 1054-07-238

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Sample ID : DUPLICATE

Collected By : M Logut-B Bryant
Collection Date : 01/10/08 00:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
trans-1,2-Dichloroethene	6.0	0.30	1.0	ug/l	8260B	01/17/08	1	5
1,2-Dichloropropane	1.2	0.52	1.0	ug/l	8260B	01/17/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	01/17/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	01/17/08	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	01/17/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	01/17/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	01/17/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	01/17/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	01/17/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	01/17/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	01/17/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	01/17/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	01/17/08	1	1
Tetrachloroethene	0.43	0.29	1.0	ug/l	8260B	01/17/08	1	1
Toluene	0.32	0.27	5.0	ug/l	8260B	01/17/08	1	1
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	01/17/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	01/17/08	1	5
Trichloroethene	11.	0.37	1.0	ug/l	8260B	01/17/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	01/17/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	01/17/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	01/17/08	1	50
Vinyl chloride	46.	0.27	1.0	ug/l	8260B	01/17/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	01/17/08	1	4
Surrogate Recovery								
Toluene-d8	104.			% Rec.	8260B	01/17/08	1	
Dibromofluoromethane	103.			% Rec.	8260B	01/17/08	1	
4-Bromofluorobenzene	90.7			% Rec.	8260B	01/17/08	1	

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

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-10

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Site ID :

Sample ID : MW-3A

Project # : 1054-07-238

Collected By : M Logut-B Bryant
Collection Date : 01/10/08 17:30

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	0.53	0.22	1.0	ug/l	6020	01/13/08	1	6
Arsenic	5.1	0.15	1.0	ug/l	6020	01/13/08	1	10
Beryllium	2.5	1.2	5.0	ug/l	6020	01/14/08	5	1
Cadmium	1.0	0.24	0.50	ug/l	6020	01/13/08	1	1
Copper	0.55	0.45	1.0	ug/l	6020	01/13/08	1	10
Selenium	1.4	0.43	1.0	ug/l	6020	01/13/08	1	10
Thallium	0.36	0.090	1.0	ug/l	6020	01/13/08	1	5.5
Zinc	55.	3.0	10.	ug/l	6020	01/13/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	01/14/08	1	.2
Barium	170	1.0	5.0	ug/l	6010B	01/14/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	01/14/08	1	10
Cobalt	26.	1.1	10.	ug/l	6010B	01/14/08	1	10
Lead	U	2.4	5.0	ug/l	6010B	01/14/08	1	5
Nickel	18.	9.8	20.	ug/l	6010B	01/14/08	1	50
Silver	U	2.5	10.	ug/l	6010B	01/14/08	1	10
Vanadium	5.8	2.9	10.	ug/l	6010B	01/14/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	01/13/08	1	100
Acrylonitrile	U	1.7	10.	ug/l	8260B	01/13/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	01/13/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	01/13/08	1	3
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	01/13/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	01/13/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	01/13/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	01/13/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	01/13/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	01/13/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	01/13/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	01/13/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	01/13/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	01/13/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	01/13/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	01/13/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	01/13/08	1	1
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	01/13/08	1	100
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	01/13/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	01/13/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	01/13/08	1	5

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

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-10

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Site ID :

Sample ID : MW-3A

Project # : 1054-07-238

Collected By : M Logut-B Bryant
Collection Date : 01/10/08 17:30

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	01/13/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	01/13/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	01/13/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	01/13/08	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	01/13/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	01/13/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	01/13/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	01/13/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	01/13/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	01/13/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	01/13/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	01/13/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	01/13/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	01/13/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	01/13/08	1	1
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	01/13/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	01/13/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	01/13/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	01/13/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	01/13/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	01/13/08	1	4
Surrogate Recovery								
Toluene-d8	109.			% Rec.	8260B	01/13/08	1	
Dibromofluoromethane	109.			% Rec.	8260B	01/13/08	1	
4-Bromofluorobenzene	101.			% Rec.	8260B	01/13/08	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

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-11

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Site ID :

Sample ID : TRIP BLANK

Project # : 1054-07-238

Collected By : M Logut-B Bryant
Collection Date : 01/10/08 00:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	01/13/08	1	100
Acrylonitrile	U	1.7	10.	ug/l	8260B	01/13/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	01/13/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	01/13/08	1	3
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	01/13/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	01/13/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	01/13/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	01/13/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	01/13/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	01/13/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	01/13/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	01/13/08	1	10
Chloroform	U	0.33	5.0	ug/l	8260B	01/13/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	01/13/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	01/13/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	01/13/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	01/13/08	1	1
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	01/13/08	1	100
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	01/13/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	01/13/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	01/13/08	1	5
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	01/13/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	01/13/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	01/13/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	01/13/08	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	01/13/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	01/13/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	01/13/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	01/13/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	01/13/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	01/13/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	01/13/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	01/13/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	01/13/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	01/13/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	01/13/08	1	1
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	01/13/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	01/13/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	01/13/08	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

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-11

Site ID :

Project # : 1054-07-238

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Sample ID : TRIP BLANK

Collected By : M Logut-B Bryant
Collection Date : 01/10/08 00:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	01/13/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	01/13/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	01/13/08	1	4
Surrogate Recovery								
Toluene-d8	111.			% Rec.	8260B	01/13/08	1	
Dibromofluoromethane	110.			% Rec.	8260B	01/13/08	1	
4-Bromofluorobenzene	102.			% Rec.	8260B	01/13/08	1	

U = ND (Not Detected)
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REPORT OF ANALYSIS

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-12

Site ID :

Project # : 1054-07-238

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Sample ID : EQUIPMENT BLANK

Collected By : M Logut-B Bryant
Collection Date : 01/11/08 11:15

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	0.51	0.22	1.0	ug/l	6020	01/13/08	1	6
Arsenic	U	0.15	1.0	ug/l	6020	01/13/08	1	10
Beryllium	0.27	0.24	1.0	ug/l	6020	01/13/08	1	1
Cadmium	0.32	0.24	0.50	ug/l	6020	01/13/08	1	1
Copper	0.47	0.45	1.0	ug/l	6020	01/13/08	1	10
Selenium	U	0.43	1.0	ug/l	6020	01/13/08	1	10
Thallium	0.31	0.090	1.0	ug/l	6020	01/13/08	1	5.5
Zinc	U	3.0	10.	ug/l	6020	01/13/08	1	10
Mercury	U	0.044	0.20	ug/l	7470A	01/14/08	1	.2
Barium	1.2	1.0	5.0	ug/l	6010B	01/14/08	1	100
Chromium	U	2.3	10.	ug/l	6010B	01/14/08	1	10
Cobalt	U	1.1	10.	ug/l	6010B	01/14/08	1	10
Lead	U	2.4	5.0	ug/l	6010B	01/14/08	1	5
Nickel	U	9.8	20.	ug/l	6010B	01/14/08	1	50
Silver	U	2.5	10.	ug/l	6010B	01/14/08	1	10
Vanadium	U	2.9	10.	ug/l	6010B	01/14/08	1	25
Volatile Organics								
Acetone	U	8.9	50.	ug/l	8260B	01/13/08	1	100
Acrylonitrile	U	1.7	10.	ug/l	8260B	01/13/08	1	200
Benzene	U	0.29	1.0	ug/l	8260B	01/13/08	1	1
Bromochloromethane	U	0.44	1.0	ug/l	8260B	01/13/08	1	3
Bromodichloromethane	U	0.37	1.0	ug/l	8260B	01/13/08	1	1
Bromoform	U	0.51	1.0	ug/l	8260B	01/13/08	1	3
Bromomethane	U	0.89	5.0	ug/l	8260B	01/13/08	1	10
Carbon disulfide	U	0.32	1.0	ug/l	8260B	01/13/08	1	100
Carbon tetrachloride	U	0.31	1.0	ug/l	8260B	01/13/08	1	1
Chlorobenzene	U	0.26	1.0	ug/l	8260B	01/13/08	1	3
Chlorodibromomethane	U	0.42	1.0	ug/l	8260B	01/13/08	1	1
Chloroethane	U	0.86	5.0	ug/l	8260B	01/13/08	1	10
Chloroform	0.40	0.33	5.0	ug/l	8260B	01/13/08	1	5
Chloromethane	U	0.25	2.5	ug/l	8260B	01/13/08	1	1
Dibromomethane	U	0.28	1.0	ug/l	8260B	01/13/08	1	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	01/13/08	1	5
1,4-Dichlorobenzene	U	0.30	1.0	ug/l	8260B	01/13/08	1	1
trans-1,4-Dichloro-2-butene	U	0.85	2.5	ug/l	8260B	01/13/08	1	100
1,1-Dichloroethane	U	0.31	1.0	ug/l	8260B	01/13/08	1	5
1,2-Dichloroethane	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
1,1-Dichloroethene	U	0.50	1.0	ug/l	8260B	01/13/08	1	5
cis-1,2-Dichloroethene	U	0.38	1.0	ug/l	8260B	01/13/08	1	5

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

Michelle Logut
S&ME Inc. - Raleigh NC
3201 Spring Forest Road
Raleigh, NC 27616

January 18, 2008

ESC Sample # : L327430-12

Date Received : January 12, 2008
Description : Edgecomb County Landfill

Site ID :

Sample ID : EQUIPMENT BLANK

Project # : 1054-07-238

Collected By : M Logut-B Bryant
Collection Date : 01/11/08 11:15

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
trans-1,2-Dichloroethene	U	0.30	1.0	ug/l	8260B	01/13/08	1	5
1,2-Dichloropropane	U	0.52	1.0	ug/l	8260B	01/13/08	1	1
cis-1,3-Dichloropropene	U	0.26	1.0	ug/l	8260B	01/13/08	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	01/13/08	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	01/13/08	1	1
2-Hexanone	U	1.6	10.	ug/l	8260B	01/13/08	1	50
Iodomethane	U	2.6	10.	ug/l	8260B	01/13/08	1	10
2-Butanone (MEK)	U	4.5	10.	ug/l	8260B	01/13/08	1	10
Methylene Chloride	U	0.30	5.0	ug/l	8260B	01/13/08	1	1
4-Methyl-2-pentanone (MIBK)	U	1.4	10.	ug/l	8260B	01/13/08	1	100
Styrene	U	0.38	1.0	ug/l	8260B	01/13/08	1	1
1,1,1,2-Tetrachloroethane	U	0.40	1.0	ug/l	8260B	01/13/08	1	5
1,1,2,2-Tetrachloroethane	U	0.22	1.0	ug/l	8260B	01/13/08	1	1
Tetrachloroethene	U	0.29	1.0	ug/l	8260B	01/13/08	1	1
Toluene	U	0.27	5.0	ug/l	8260B	01/13/08	1	1
1,1,1-Trichloroethane	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
1,1,2-Trichloroethane	U	0.45	1.0	ug/l	8260B	01/13/08	1	5
Trichloroethene	U	0.37	1.0	ug/l	8260B	01/13/08	1	1
Trichlorofluoromethane	U	0.29	5.0	ug/l	8260B	01/13/08	1	1
1,2,3-Trichloropropane	U	0.36	1.0	ug/l	8260B	01/13/08	1	1
Vinyl acetate	U	1.0	10.	ug/l	8260B	01/13/08	1	50
Vinyl chloride	U	0.27	1.0	ug/l	8260B	01/13/08	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	01/13/08	1	4
Surrogate Recovery								
Toluene-d8	111.			% Rec.	8260B	01/13/08	1	
Dibromofluoromethane	111.			% Rec.	8260B	01/13/08	1	
4-Bromofluorobenzene	102.			% Rec.	8260B	01/13/08	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
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Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L327430-01	Chromium	J
	Cobalt	J
	Vanadium	J
	Antimony	J
	Beryllium	J
	Cadmium	J
	Thallium	J
	Zinc	J
L327430-02	Cobalt	J
	Antimony	J
	Arsenic	J
	Beryllium	J
	Cadmium	J
	Selenium	J
	Thallium	J
	cis-1,2-Dichloroethene	J
L327430-03	Cobalt	J
	Arsenic	J
	Beryllium	J
	Cadmium	J
	Selenium	J
	Thallium	J
L327430-04	Cobalt	J
	Nickel	J
	Vanadium	J
	Antimony	J
	Beryllium	J
	Cadmium	J
	Selenium	J
	Thallium	J
	Chloroethane	J
	1,1-Dichloroethane	J
	cis-1,2-Dichloroethene	J
	Vinyl chloride	J
L327430-05	Cobalt	J
	Antimony	J
	Arsenic	J
	Beryllium	J
	Cadmium	J
	Selenium	J
	Thallium	J
L327430-06	Antimony	J
	Arsenic	J
	Beryllium	J
	Cadmium	J
	Selenium	J
	Thallium	J
	Zinc	J
L327430-07	Cobalt	J
	Antimony	J
	Beryllium	J
	Selenium	J
	Thallium	J
L327430-08	Silver	J
	Antimony	J
	Beryllium	O
	Cadmium	J
	Copper	J
	Selenium	J
	Thallium	J
	Chloroethane	J
	1,2-Dichlorobenzene	J
L327430-09	Silver	J
	Antimony	J
	Beryllium	JO
	Cadmium	J
	Copper	J
	Selenium	J
	Thallium	J

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	Chloroethane	J
	cis-1,2-Dichloroethene	E
	cis-1,3-Dichloropropene	J4
	trans-1,3-Dichloropropene	J4
	Tetrachloroethene	J
	Toluene	J
L327430-10	Nickel	J
	Vanadium	J
	Antimony	J
	Beryllium	JO
	Copper	J
	Thallium	J
	Acetone	J3
	Acrylonitrile	J3
	2-Hexanone	J3
	2-Butanone (MEK)	J3
	4-Methyl-2-pentanone (MIBK)	J3
	Vinyl acetate	J4J3
L327430-11	Acetone	J3
	Acrylonitrile	J3
	2-Hexanone	J3
	2-Butanone (MEK)	J3
	4-Methyl-2-pentanone (MIBK)	J3
	Vinyl acetate	J4J3
L327430-12	Barium	J
	Antimony	J
	Beryllium	J
	Cadmium	J
	Copper	J
	Thallium	J
	Acetone	J3
	Acrylonitrile	J3
	Chloroform	J
	2-Hexanone	J3
	2-Butanone (MEK)	J3
	4-Methyl-2-pentanone (MIBK)	J3
	Vinyl acetate	J4J3

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.
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.
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
01/18/08 at 10:42:21

TSR Signing Reports: 690
R5 - Desired TAT

Sample: L327430-01 Account: SMERLNC Received: 01/12/08 09:00 Due Date: 01/18/08 00:00 RPT Date: 01/16/08 14:18
EDD=NCSWSL Style.
Sample: L327430-02 Account: SMERLNC Received: 01/12/08 09:00 Due Date: 01/18/08 00:00 RPT Date: 01/16/08 14:18
EDD=NCSWSL Style.
Sample: L327430-03 Account: SMERLNC Received: 01/12/08 09:00 Due Date: 01/18/08 00:00 RPT Date: 01/16/08 14:18
EDD=NCSWSL Style.
Sample: L327430-04 Account: SMERLNC Received: 01/12/08 09:00 Due Date: 01/18/08 00:00 RPT Date: 01/16/08 14:18
EDD=NCSWSL Style.
Sample: L327430-05 Account: SMERLNC Received: 01/12/08 09:00 Due Date: 01/18/08 00:00 RPT Date: 01/16/08 14:18
EDD=NCSWSL Style.
Sample: L327430-06 Account: SMERLNC Received: 01/12/08 09:00 Due Date: 01/18/08 00:00 RPT Date: 01/16/08 14:18
EDD=NCSWSL Style.
Sample: L327430-07 Account: SMERLNC Received: 01/12/08 09:00 Due Date: 01/18/08 00:00 RPT Date: 01/16/08 14:18
EDD=NCSWSL Style.
Sample: L327430-08 Account: SMERLNC Received: 01/12/08 09:00 Due Date: 01/18/08 00:00 RPT Date: 01/16/08 14:18
EDD=NCSWSL Style.
Sample: L327430-09 Account: SMERLNC Received: 01/12/08 09:00 Due Date: 01/18/08 00:00 RPT Date: 01/16/08 14:18
EDD=NCSWSL Style.
Sample: L327430-10 Account: SMERLNC Received: 01/12/08 09:00 Due Date: 01/18/08 00:00 RPT Date: 01/16/08 14:18
EDD=NCSWSL Style.
Sample: L327430-11 Account: SMERLNC Received: 01/12/08 09:00 Due Date: 01/18/08 00:00 RPT Date: 01/16/08 14:18
EDD=NCSWSL Style.
Sample: L327430-12 Account: SMERLNC Received: 01/12/08 09:00 Due Date: 01/18/08 00:00 RPT Date: 01/16/08 14:18
EDD=NCSWSL Style.

ENVIRONMENTAL
SCIENCE CORP.

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Tax I.D. 62-0814289

Est. 1970

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Michelle Logut
3201 Spring Forest Road

Raleigh, NC 27616

Quality Assurance Report
Level II

L327430

January 18, 2008

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
Antimony	< .001	mg/l	01/13/08 20:48	WG339726
Arsenic	< .001	mg/l	01/13/08 20:48	WG339726
Beryllium	< .001	mg/l	01/13/08 20:48	WG339726
Cadmium	< .0005	mg/l	01/13/08 20:48	WG339726
Copper	< .001	mg/l	01/13/08 20:48	WG339726
Selenium	< .001	mg/l	01/13/08 20:48	WG339726
Thallium	< .001	mg/l	01/13/08 20:48	WG339726
Zinc	< .01	mg/l	01/13/08 20:48	WG339726
Mercury	< .0002	mg/l	01/14/08 21:47	WG339736
1,1,1,2-Tetrachloroethane	< .001	mg/l	01/13/08 11:10	WG339744
1,1,1-Trichloroethane	< .001	mg/l	01/13/08 11:10	WG339744
1,1,2,2-Tetrachloroethane	< .001	mg/l	01/13/08 11:10	WG339744
1,1,2-Trichloroethane	< .001	mg/l	01/13/08 11:10	WG339744
1,1-Dichloroethane	< .001	mg/l	01/13/08 11:10	WG339744
1,1-Dichloroethene	< .001	mg/l	01/13/08 11:10	WG339744
1,2,3-Trichloropropane	< .001	mg/l	01/13/08 11:10	WG339744
1,2-Dichlorobenzene	< .001	mg/l	01/13/08 11:10	WG339744
1,2-Dichloroethane	< .001	mg/l	01/13/08 11:10	WG339744
1,2-Dichloropropane	< .001	mg/l	01/13/08 11:10	WG339744
1,4-Dichlorobenzene	< .001	mg/l	01/13/08 11:10	WG339744
2-Butanone (MEK)	< .01	mg/l	01/13/08 11:10	WG339744
2-Hexanone	< .01	mg/l	01/13/08 11:10	WG339744
4-Methyl-2-pentanone (MIBK)	< .01	mg/l	01/13/08 11:10	WG339744
Acetone	< .05	mg/l	01/13/08 11:10	WG339744
Acrylonitrile	< .01	mg/l	01/13/08 11:10	WG339744
Benzene	< .001	mg/l	01/13/08 11:10	WG339744
Bromochloromethane	< .001	mg/l	01/13/08 11:10	WG339744
Bromodichloromethane	< .001	mg/l	01/13/08 11:10	WG339744
Bromoform	< .001	mg/l	01/13/08 11:10	WG339744
Bromomethane	< .005	mg/l	01/13/08 11:10	WG339744
Carbon disulfide	< .001	mg/l	01/13/08 11:10	WG339744
Carbon tetrachloride	< .001	mg/l	01/13/08 11:10	WG339744
Chlorobenzene	< .001	mg/l	01/13/08 11:10	WG339744
Chlorodibromomethane	< .001	mg/l	01/13/08 11:10	WG339744
Chloroethane	< .001	mg/l	01/13/08 11:10	WG339744
Chloroform	< .005	mg/l	01/13/08 11:10	WG339744
Chloromethane	< .001	mg/l	01/13/08 11:10	WG339744
cis-1,2-Dichloroethene	< .001	mg/l	01/13/08 11:10	WG339744
cis-1,3-Dichloropropene	< .001	mg/l	01/13/08 11:10	WG339744
Dibromomethane	< .001	mg/l	01/13/08 11:10	WG339744
Ethylbenzene	< .001	mg/l	01/13/08 11:10	WG339744
Iodomethane	< .01	mg/l	01/13/08 11:10	WG339744
Methylene Chloride	< .005	mg/l	01/13/08 11:10	WG339744
Styrene	< .001	mg/l	01/13/08 11:10	WG339744
Tetrachloroethene	< .001	mg/l	01/13/08 11:10	WG339744
Toluene	< .005	mg/l	01/13/08 11:10	WG339744
trans-1,2-Dichloroethene	< .001	mg/l	01/13/08 11:10	WG339744
trans-1,3-Dichloropropene	< .001	mg/l	01/13/08 11:10	WG339744
trans-1,4-Dichloro-2-butene	< .0025	mg/l	01/13/08 11:10	WG339744
Trichloroethene	< .001	mg/l	01/13/08 11:10	WG339744
Trichlorofluoromethane	< .005	mg/l	01/13/08 11:10	WG339744
Vinyl acetate	< .01	mg/l	01/13/08 11:10	WG339744
Vinyl chloride	< .001	mg/l	01/13/08 11:10	WG339744
Xylenes, Total	< .003	mg/l	01/13/08 11:10	WG339744
1,1,1,2-Tetrachloroethane	< .001	mg/l	01/13/08 13:39	WG339755
1,1,1-Trichloroethane	< .001	mg/l	01/13/08 13:39	WG339755
1,1,2,2-Tetrachloroethane	< .001	mg/l	01/13/08 13:39	WG339755

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Level II

L327430

January 18, 2008

1,1,2-Trichloroethane	< .001	mg/l	01/13/08 13:39	WG339755

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
1,1-Dichloroethane	< .001	mg/l	01/13/08 13:39	WG339755
1,1-Dichloroethene	< .001	mg/l	01/13/08 13:39	WG339755
1,2,3-Trichloropropane	< .001	mg/l	01/13/08 13:39	WG339755
1,2-Dichlorobenzene	< .001	mg/l	01/13/08 13:39	WG339755
1,2-Dichloroethane	< .001	mg/l	01/13/08 13:39	WG339755
1,2-Dichloropropane	< .001	mg/l	01/13/08 13:39	WG339755
1,4-Dichlorobenzene	< .001	mg/l	01/13/08 13:39	WG339755
2-Butanone (MEK)	< .01	mg/l	01/13/08 13:39	WG339755
2-Hexanone	< .01	mg/l	01/13/08 13:39	WG339755
4-Methyl-2-pentanone (MIBK)	< .01	mg/l	01/13/08 13:39	WG339755
Acetone	< .05	mg/l	01/13/08 13:39	WG339755
Acrylonitrile	< .01	mg/l	01/13/08 13:39	WG339755
Benzene	< .001	mg/l	01/13/08 13:39	WG339755
Bromochloromethane	< .001	mg/l	01/13/08 13:39	WG339755
Bromodichloromethane	< .001	mg/l	01/13/08 13:39	WG339755
Bromoform	< .001	mg/l	01/13/08 13:39	WG339755
Bromomethane	< .005	mg/l	01/13/08 13:39	WG339755
Carbon disulfide	< .001	mg/l	01/13/08 13:39	WG339755
Carbon tetrachloride	< .001	mg/l	01/13/08 13:39	WG339755
Chlorobenzene	< .001	mg/l	01/13/08 13:39	WG339755
Chlorodibromomethane	< .001	mg/l	01/13/08 13:39	WG339755
Chloroethane	< .001	mg/l	01/13/08 13:39	WG339755
Chloroform	< .005	mg/l	01/13/08 13:39	WG339755
Chloromethane	< .001	mg/l	01/13/08 13:39	WG339755
cis-1,2-Dichloroethene	< .001	mg/l	01/13/08 13:39	WG339755
cis-1,3-Dichloropropene	< .001	mg/l	01/13/08 13:39	WG339755
Dibromomethane	< .001	mg/l	01/13/08 13:39	WG339755
Ethylbenzene	< .001	mg/l	01/13/08 13:39	WG339755
Iodomethane	< .01	mg/l	01/13/08 13:39	WG339755
Methylene Chloride	< .005	mg/l	01/13/08 13:39	WG339755
Styrene	< .001	mg/l	01/13/08 13:39	WG339755
Tetrachloroethene	< .001	mg/l	01/13/08 13:39	WG339755
Toluene	< .005	mg/l	01/13/08 13:39	WG339755
trans-1,2-Dichloroethene	< .001	mg/l	01/13/08 13:39	WG339755
trans-1,3-Dichloropropene	< .001	mg/l	01/13/08 13:39	WG339755
trans-1,4-Dichloro-2-butene	< .0025	mg/l	01/13/08 13:39	WG339755
Trichloroethene	< .001	mg/l	01/13/08 13:39	WG339755
Trichlorofluoromethane	< .005	mg/l	01/13/08 13:39	WG339755
Vinyl acetate	< .01	mg/l	01/13/08 13:39	WG339755
Vinyl chloride	< .001	mg/l	01/13/08 13:39	WG339755
Xylenes, Total	< .003	mg/l	01/13/08 13:39	WG339755
Barium	< .005	mg/l	01/14/08 17:58	WG339786
Chromium	< .01	mg/l	01/14/08 17:58	WG339786
Cobalt	< .01	mg/l	01/14/08 17:58	WG339786
Lead	< .005	mg/l	01/14/08 17:58	WG339786
Nickel	< .02	mg/l	01/14/08 17:58	WG339786
Silver	< .01	mg/l	01/14/08 17:58	WG339786
Vanadium	< .01	mg/l	01/14/08 17:58	WG339786
cis-1,2-Dichloroethene	< .001	mg/l	01/14/08 18:41	WG339942
1,1,1,2-Tetrachloroethane	< .001	mg/l	01/17/08 09:38	WG340474
1,1,1-Trichloroethane	< .001	mg/l	01/17/08 09:38	WG340474
1,1,2,2-Tetrachloroethane	< .001	mg/l	01/17/08 09:38	WG340474
1,1,2-Trichloroethane	< .001	mg/l	01/17/08 09:38	WG340474
1,1-Dichloroethane	< .001	mg/l	01/17/08 09:38	WG340474
1,1-Dichloroethene	< .001	mg/l	01/17/08 09:38	WG340474
1,2,3-Trichloropropane	< .001	mg/l	01/17/08 09:38	WG340474

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L327430

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1,2-Dichlorobenzene	< .001	mg/l	01/17/08 09:38	WG340474

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
1,2-Dichloroethane	< .001	mg/l	01/17/08 09:38	WG340474
1,2-Dichloropropane	< .001	mg/l	01/17/08 09:38	WG340474
1,4-Dichlorobenzene	< .001	mg/l	01/17/08 09:38	WG340474
2-Butanone (MEK)	< .01	mg/l	01/17/08 09:38	WG340474
2-Hexanone	< .01	mg/l	01/17/08 09:38	WG340474
4-Methyl-2-pentanone (MIBK)	< .01	mg/l	01/17/08 09:38	WG340474
Acetone	< .05	mg/l	01/17/08 09:38	WG340474
Acrylonitrile	< .01	mg/l	01/17/08 09:38	WG340474
Benzene	< .001	mg/l	01/17/08 09:38	WG340474
Bromochloromethane	< .001	mg/l	01/17/08 09:38	WG340474
Bromodichloromethane	< .001	mg/l	01/17/08 09:38	WG340474
Bromoform	< .001	mg/l	01/17/08 09:38	WG340474
Bromomethane	< .005	mg/l	01/17/08 09:38	WG340474
Carbon disulfide	< .001	mg/l	01/17/08 09:38	WG340474
Carbon tetrachloride	< .001	mg/l	01/17/08 09:38	WG340474
Chlorobenzene	< .001	mg/l	01/17/08 09:38	WG340474
Chlorodibromomethane	< .001	mg/l	01/17/08 09:38	WG340474
Chloroethane	< .001	mg/l	01/17/08 09:38	WG340474
Chloroform	< .005	mg/l	01/17/08 09:38	WG340474
Chloromethane	< .001	mg/l	01/17/08 09:38	WG340474
cis-1,3-Dichloropropene	< .001	mg/l	01/17/08 09:38	WG340474
Dibromomethane	< .001	mg/l	01/17/08 09:38	WG340474
Ethylbenzene	< .001	mg/l	01/17/08 09:38	WG340474
Iodomethane	< .01	mg/l	01/17/08 09:38	WG340474
Methylene Chloride	< .005	mg/l	01/17/08 09:38	WG340474
Styrene	< .001	mg/l	01/17/08 09:38	WG340474
Tetrachloroethene	< .001	mg/l	01/17/08 09:38	WG340474
Toluene	< .005	mg/l	01/17/08 09:38	WG340474
trans-1,2-Dichloroethene	< .001	mg/l	01/17/08 09:38	WG340474
trans-1,3-Dichloropropene	< .001	mg/l	01/17/08 09:38	WG340474
trans-1,4-Dichloro-2-butene	< .0025	mg/l	01/17/08 09:38	WG340474
Trichloroethene	< .001	mg/l	01/17/08 09:38	WG340474
Trichlorofluoromethane	< .005	mg/l	01/17/08 09:38	WG340474
Vinyl acetate	< .01	mg/l	01/17/08 09:38	WG340474
Vinyl chloride	< .001	mg/l	01/17/08 09:38	WG340474
Xylenes, Total	< .003	mg/l	01/17/08 09:38	WG340474

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Antimony	mg/l	0.00122	0.00100	19.8	20	L327444-03	WG339726
Arsenic	mg/l	0.00	0.00	0.00	20	L327444-03	WG339726
Beryllium	mg/l	0.00	0.00031	NA	20	L327444-03	WG339726
Cadmium	mg/l	0.00	0.00035	NA	20	L327444-03	WG339726
Copper	mg/l	0.00	0.00083	NA	20	L327444-03	WG339726
Selenium	mg/l	0.00	0.00036	NA	20	L327444-03	WG339726
Thallium	mg/l	0.00	0.00	0.00	20	L327444-03	WG339726
Zinc	mg/l	0.00	0.00	0.00	20	L327444-03	WG339726
Mercury	mg/l	0.00	0.00	0.00	20	L327430-10	WG339736
Barium	mg/l	0.00	0.00090	NA	20	L327439-26	WG339786
Chromium	mg/l	0.00	0.00	0.00	20	L327439-26	WG339786
Cobalt	mg/l	0.00	0.00	0.00	20	L327439-26	WG339786
Lead	mg/l	0.00	0.00	0.00	20	L327439-26	WG339786
Nickel	mg/l	0.00	0.00	0.00	20	L327439-26	WG339786
Silver	mg/l	0.00	0.00010	NA	20	L327439-26	WG339786
Vanadium	mg/l	0.00	0.00060	NA	20	L327439-26	WG339786

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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Antimony	mg/l	.0567	0.0589	104.	85-115	WG339726
Arsenic	mg/l	.0567	0.0589	104.	85-115	WG339726
Beryllium	mg/l	.0567	0.0579	102.	85-115	WG339726
Cadmium	mg/l	.0567	0.0581	102.	85-115	WG339726
Copper	mg/l	.0567	0.0600	106.	85-115	WG339726
Selenium	mg/l	.0567	0.0564	99.5	85-115	WG339726
Thallium	mg/l	.0567	0.0579	102.	85-115	WG339726
Zinc	mg/l	.0567	0.0539	95.1	85-115	WG339726
Mercury	mg/l	.003	0.00277	92.3	85-115	WG339736
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0233	93.3	61-134	WG339744
1,1,1-Trichloroethane	mg/l	.025	0.0206	82.3	62-133	WG339744
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0236	94.3	66-124	WG339744
1,1,2-Trichloroethane	mg/l	.025	0.0235	94.1	62-124	WG339744
1,1-Dichloroethane	mg/l	.025	0.0217	86.9	59-135	WG339744
1,1-Dichloroethene	mg/l	.025	0.0249	99.5	68-136	WG339744
1,2,3-Trichloropropane	mg/l	.025	0.0232	92.8	62-138	WG339744
1,2-Dichlorobenzene	mg/l	.025	0.0230	91.9	54-135	WG339744
1,2-Dichloroethane	mg/l	.025	0.0211	84.3	61-131	WG339744
1,2-Dichloropropane	mg/l	.025	0.0230	92.0	64-126	WG339744
1,4-Dichlorobenzene	mg/l	.025	0.0218	87.0	48-138	WG339744
2-Butanone (MEK)	mg/l	.125	0.112	89.4	50-132	WG339744
2-Hexanone	mg/l	.125	0.120	96.4	54-133	WG339744
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.117	93.7	47-143	WG339744
Acetone	mg/l	.125	0.137	110.	36-163	WG339744
Acrylonitrile	mg/l	.125	0.110	87.9	44-130	WG339744
Benzene	mg/l	.025	0.0227	90.6	63-121	WG339744
Bromochloromethane	mg/l	.025	0.0231	92.3	66-125	WG339744
Bromodichloromethane	mg/l	.025	0.0215	85.9	64-127	WG339744
Bromoform	mg/l	.025	0.0247	98.8	60-139	WG339744
Bromomethane	mg/l	.025	0.0206	82.5	30-125	WG339744
Carbon disulfide	mg/l	.025	0.0299	120.	51-146	WG339744
Carbon tetrachloride	mg/l	.025	0.0201	80.6	70-140	WG339744
Chlorobenzene	mg/l	.025	0.0232	92.7	70-126	WG339744
Chlorodibromomethane	mg/l	.025	0.0225	90.0	62-132	WG339744
Chloroethane	mg/l	.025	0.0198	79.0	43-146	WG339744
Chloroform	mg/l	.025	0.0212	84.9	65-121	WG339744
Chloromethane	mg/l	.025	0.0174	69.5	45-131	WG339744
cis-1,2-Dichloroethene	mg/l	.025	0.0230	91.9	68-123	WG339744
cis-1,3-Dichloropropene	mg/l	.025	0.0245	98.0	66-121	WG339744
Dibromomethane	mg/l	.025	0.0222	88.7	69-119	WG339744
Ethylbenzene	mg/l	.025	0.0220	87.9	70-121	WG339744
Iodomethane	mg/l	.125	0.111	88.8	50-125	WG339744
Methylene Chloride	mg/l	.025	0.0204	81.5	53-131	WG339744
Styrene	mg/l	.025	0.0233	93.1	68-123	WG339744
Tetrachloroethene	mg/l	.025	0.0236	94.2	64-134	WG339744
Toluene	mg/l	.025	0.0229	91.5	65-120	WG339744
trans-1,2-Dichloroethene	mg/l	.025	0.0225	90.1	59-138	WG339744
trans-1,3-Dichloropropene	mg/l	.025	0.0243	97.4	55-113	WG339744
trans-1,4-Dichloro-2-butene	mg/l	.025	0.0171	68.2	57-154	WG339744
Trichloroethene	mg/l	.025	0.0238	95.4	74-120	WG339744
Trichlorofluoromethane	mg/l	.025	0.0200	80.1	49-121	WG339744
Vinyl acetate	mg/l	.125	0.117	93.4	52-156	WG339744
Vinyl chloride	mg/l	.025	0.0211	84.2	46-133	WG339744
Xylenes, Total	mg/l	.075	0.0678	90.5	68-124	WG339744
1,1,1,2-Tetrachloroethane	mg/l	.05	0.0501	100.	61-134	WG339755
1,1,1-Trichloroethane	mg/l	.05	0.0438	87.5	62-133	WG339755
1,1,2,2-Tetrachloroethane	mg/l	.05	0.0455	91.1	66-124	WG339755

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Michelle Logut
3201 Spring Forest Road

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Level II

L327430

January 18, 2008

1,1,2-Trichloroethane	mg/l	.05	0.0442	88.4	62-124	WG339755

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1-Dichloroethane	mg/l	.05	0.0414	82.8	59-135	WG339755
1,1-Dichloroethene	mg/l	.05	0.0433	86.6	68-136	WG339755
1,2,3-Trichloropropane	mg/l	.05	0.0476	95.2	62-138	WG339755
1,2-Dichlorobenzene	mg/l	.05	0.0452	90.4	54-135	WG339755
1,2-Dichloroethane	mg/l	.05	0.0441	88.2	61-131	WG339755
1,2-Dichloropropane	mg/l	.05	0.0451	90.2	64-126	WG339755
1,4-Dichlorobenzene	mg/l	.05	0.0447	89.4	48-138	WG339755
2-Butanone (MEK)	mg/l	.25	0.255	102.	50-132	WG339755
2-Hexanone	mg/l	.25	0.245	97.9	54-133	WG339755
4-Methyl-2-pentanone (MIBK)	mg/l	.25	0.233	93.1	47-143	WG339755
Acetone	mg/l	.25	0.243	97.1	36-163	WG339755
Acrylonitrile	mg/l	.25	0.227	90.7	44-130	WG339755
Benzene	mg/l	.05	0.0409	81.8	63-121	WG339755
Bromochloromethane	mg/l	.05	0.0427	85.3	66-125	WG339755
Bromodichloromethane	mg/l	.05	0.0454	90.8	64-127	WG339755
Bromoform	mg/l	.05	0.0482	96.5	60-139	WG339755
Bromomethane	mg/l	.05	0.0552	110.	30-125	WG339755
Carbon disulfide	mg/l	.05	0.0570	114.	51-146	WG339755
Carbon tetrachloride	mg/l	.05	0.0486	97.3	70-140	WG339755
Chlorobenzene	mg/l	.05	0.0442	88.4	70-126	WG339755
Chlorodibromomethane	mg/l	.05	0.0511	102.	62-132	WG339755
Chloroethane	mg/l	.05	0.0596	119.	43-146	WG339755
Chloroform	mg/l	.05	0.0417	83.3	65-121	WG339755
Chloromethane	mg/l	.05	0.0440	88.1	45-131	WG339755
cis-1,2-Dichloroethene	mg/l	.05	0.0419	83.7	68-123	WG339755
cis-1,3-Dichloropropene	mg/l	.05	0.0470	93.9	66-121	WG339755
Dibromomethane	mg/l	.05	0.0444	88.9	69-119	WG339755
Ethylbenzene	mg/l	.05	0.0427	85.4	70-121	WG339755
Iodomethane	mg/l	.25	0.249	99.5	50-125	WG339755
Methylene Chloride	mg/l	.05	0.0437	87.3	53-131	WG339755
Styrene	mg/l	.05	0.0446	89.1	68-123	WG339755
Tetrachloroethene	mg/l	.05	0.0436	87.1	64-134	WG339755
Toluene	mg/l	.05	0.0428	85.7	65-120	WG339755
trans-1,2-Dichloroethene	mg/l	.05	0.0418	83.6	59-138	WG339755
trans-1,3-Dichloropropene	mg/l	.05	0.0487	97.5	55-113	WG339755
trans-1,4-Dichloro-2-butene	mg/l	.05	0.0515	103.	57-154	WG339755
Trichloroethene	mg/l	.05	0.0433	86.6	74-120	WG339755
Trichlorofluoromethane	mg/l	.05	0.0450	90.1	49-121	WG339755
Vinyl acetate	mg/l	.25	0.147	58.7	52-156	WG339755
Vinyl chloride	mg/l	.05	0.0429	85.7	46-133	WG339755
Xylenes, Total	mg/l	.15	0.133	88.8	68-124	WG339755
Barium	mg/l	1.13	1.14	101.	85-115	WG339786
Chromium	mg/l	1.13	1.11	98.2	85-115	WG339786
Cobalt	mg/l	1.13	1.14	101.	85-115	WG339786
Lead	mg/l	1.13	1.14	101.	85-115	WG339786
Nickel	mg/l	1.13	1.09	96.5	85-115	WG339786
Silver	mg/l	1.13	1.11	98.2	85-115	WG339786
Vanadium	mg/l	1.13	1.14	101.	85-115	WG339786
cis-1,2-Dichloroethene	mg/l	.05	0.0462	92.3	68-123	WG339942
1,1,1,2-Tetrachloroethane	mg/l	.05	0.0492	98.5	61-134	WG340474
1,1,1-Trichloroethane	mg/l	.05	0.0462	92.4	62-133	WG340474
1,1,2,2-Tetrachloroethane	mg/l	.05	0.0545	109.	66-124	WG340474
1,1,2-Trichloroethane	mg/l	.05	0.0522	104.	62-124	WG340474
1,1-Dichloroethane	mg/l	.05	0.0478	95.7	59-135	WG340474
1,1-Dichloroethene	mg/l	.05	0.0532	106.	68-136	WG340474
1,2,3-Trichloropropane	mg/l	.05	0.0545	109.	62-138	WG340474

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1,2-Dichlorobenzene	mg/l	.05	0.0513	103.	54-135	WG340474

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,2-Dichloroethane	mg/l	.05	0.0476	95.1	61-131	WG340474
1,2-Dichloropropane	mg/l	.05	0.0493	98.5	64-126	WG340474
1,4-Dichlorobenzene	mg/l	.05	0.0479	95.8	48-138	WG340474
2-Butanone (MEK)	mg/l	.25	0.264	106.	50-132	WG340474
2-Hexanone	mg/l	.25	0.301	120.	54-133	WG340474
4-Methyl-2-pentanone (MIBK)	mg/l	.25	0.290	116.	47-143	WG340474
Acetone	mg/l	.25	0.375	150.	36-163	WG340474
Acrylonitrile	mg/l	.25	0.266	106.	44-130	WG340474
Benzene	mg/l	.05	0.0491	98.1	63-121	WG340474
Bromochloromethane	mg/l	.05	0.0533	107.	66-125	WG340474
Bromodichloromethane	mg/l	.05	0.0475	95.1	64-127	WG340474
Bromoform	mg/l	.05	0.0580	116.	60-139	WG340474
Bromomethane	mg/l	.05	0.0497	99.5	30-125	WG340474
Carbon disulfide	mg/l	.05	0.0631	126.	51-146	WG340474
Carbon tetrachloride	mg/l	.05	0.0401	80.1	70-140	WG340474
Chlorobenzene	mg/l	.05	0.0460	92.0	70-126	WG340474
Chlorodibromomethane	mg/l	.05	0.0496	99.1	62-132	WG340474
Chloroethane	mg/l	.05	0.0492	98.4	43-146	WG340474
Chloroform	mg/l	.05	0.0455	91.0	65-121	WG340474
Chloromethane	mg/l	.05	0.0412	82.3	45-131	WG340474
cis-1,3-Dichloropropene	mg/l	.05	0.0604	121.	66-121	WG340474
Dibromomethane	mg/l	.05	0.0534	107.	69-119	WG340474
Ethylbenzene	mg/l	.05	0.0437	87.4	70-121	WG340474
Iodomethane	mg/l	.25	0.259	104.	50-125	WG340474
Methylene Chloride	mg/l	.05	0.0461	92.2	53-131	WG340474
Styrene	mg/l	.05	0.0501	100.	68-123	WG340474
Tetrachloroethene	mg/l	.05	0.0475	95.1	64-134	WG340474
Toluene	mg/l	.05	0.0491	98.3	65-120	WG340474
trans-1,2-Dichloroethene	mg/l	.05	0.0484	96.9	59-138	WG340474
trans-1,3-Dichloropropene	mg/l	.05	0.0607	121.	55-113	WG340474
trans-1,4-Dichloro-2-butene	mg/l	.05	0.0485	97.0	57-154	WG340474
Trichloroethene	mg/l	.05	0.0504	101.	74-120	WG340474
Trichlorofluoromethane	mg/l	.05	0.0473	94.5	49-121	WG340474
Vinyl acetate	mg/l	.25	0.298	119.	52-156	WG340474
Vinyl chloride	mg/l	.05	0.0514	103.	46-133	WG340474
Xylenes, Total	mg/l	.15	0.140	93.1	68-124	WG340474

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0241	0.0233	3.47	17	97	WG339744
1,1,1-Trichloroethane	mg/l	0.0213	0.0206	3.53	17	85	WG339744
1,1,2,2-Tetrachloroethane	mg/l	0.0255	0.0236	7.80	16	102	WG339744
1,1,2-Trichloroethane	mg/l	0.0252	0.0235	6.75	16	101	WG339744
1,1-Dichloroethane	mg/l	0.0225	0.0217	3.43	22	90	WG339744
1,1-Dichloroethene	mg/l	0.0256	0.0249	2.74	17	102	WG339744
1,2,3-Trichloropropane	mg/l	0.0252	0.0232	8.43	18	101	WG339744
1,2-Dichlorobenzene	mg/l	0.0240	0.0230	4.29	16	96	WG339744
1,2-Dichloroethane	mg/l	0.0224	0.0211	6.30	15	90	WG339744
1,2-Dichloropropane	mg/l	0.0236	0.0230	2.60	18	94	WG339744
1,4-Dichlorobenzene	mg/l	0.0224	0.0218	2.90	17	90	WG339744
2-Butanone (MEK)	mg/l	0.120	0.112	7.34	21	96	WG339744
2-Hexanone	mg/l	0.135	0.120	11.4	19	108	WG339744
4-Methyl-2-pentanone (MIBK)	mg/l	0.132	0.117	12.1	21	106	WG339744
Acetone	mg/l	0.150	0.137	8.72	20	120	WG339744
Acrylonitrile	mg/l	0.120	0.110	8.54	20	96	WG339744
Benzene	mg/l	0.0235	0.0227	3.76	16	94	WG339744
Bromochloromethane	mg/l	0.0243	0.0231	5.32	17	97	WG339744
Bromodichloromethane	mg/l	0.0229	0.0215	6.51	17	92	WG339744

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Bromoform	mg/l	0.0272	0.0247	9.61	15	109	WG339744

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
Bromomethane	mg/l	0.0217	0.0206	5.17	21	87	WG339744
Carbon disulfide	mg/l	0.0298	0.0299	0.317	20	119	WG339744
Carbon tetrachloride	mg/l	0.0209	0.0201	3.76	17	84	WG339744
Chlorobenzene	mg/l	0.0242	0.0232	4.10	16	97	WG339744
Chlorodibromomethane	mg/l	0.0240	0.0225	6.58	15	96	WG339744
Chloroethane	mg/l	0.0205	0.0198	3.88	24	82	WG339744
Chloroform	mg/l	0.0225	0.0212	5.76	15	90	WG339744
Chloromethane	mg/l	0.0179	0.0174	2.70	22	71	WG339744
cis-1,2-Dichloroethene	mg/l	0.0238	0.0230	3.38	15	95	WG339744
cis-1,3-Dichloropropene	mg/l	0.0263	0.0245	6.99	18	105	WG339744
Dibromomethane	mg/l	0.0238	0.0222	6.91	16	95	WG339744
Ethylbenzene	mg/l	0.0230	0.0220	4.71	17	92	WG339744
Iodomethane	mg/l	0.117	0.111	5.43	22	94	WG339744
Methylene Chloride	mg/l	0.0215	0.0204	5.43	17	86	WG339744
Styrene	mg/l	0.0245	0.0233	5.15	17	98	WG339744
Tetrachloroethene	mg/l	0.0241	0.0236	2.42	18	97	WG339744
Toluene	mg/l	0.0237	0.0229	3.39	18	95	WG339744
trans-1,2-Dichloroethene	mg/l	0.0231	0.0225	2.52	22	92	WG339744
trans-1,3-Dichloropropene	mg/l	0.0265	0.0243	8.48	18	106	WG339744
trans-1,4-Dichloro-2-butene	mg/l	0.0187	0.0171	9.09	20	75	WG339744
Trichloroethene	mg/l	0.0244	0.0238	2.42	16	98	WG339744
Trichlorofluoromethane	mg/l	0.0207	0.0200	3.17	19	83	WG339744
Vinyl acetate	mg/l	0.123	0.117	5.05	23	98	WG339744
Vinyl chloride	mg/l	0.0214	0.0211	1.80	17	86	WG339744
Xylenes, Total	mg/l	0.0707	0.0678	4.12	17	94	WG339744
1,1,1,2-Tetrachloroethane	mg/l	0.0525	0.0501	4.69	17	105	WG339755
1,1,1-Trichloroethane	mg/l	0.0426	0.0438	2.62	17	85	WG339755
1,1,2,2-Tetrachloroethane	mg/l	0.0411	0.0455	10.2	16	82	WG339755
1,1,2-Trichloroethane	mg/l	0.0450	0.0442	1.71	16	90	WG339755
1,1-Dichloroethane	mg/l	0.0419	0.0414	1.22	22	84	WG339755
1,1-Dichloroethene	mg/l	0.0417	0.0433	3.83	17	83	WG339755
1,2,3-Trichloropropane	mg/l	0.0424	0.0476	11.7	18	85	WG339755
1,2-Dichlorobenzene	mg/l	0.0463	0.0452	2.46	16	93	WG339755
1,2-Dichloroethane	mg/l	0.0442	0.0441	0.162	15	88	WG339755
1,2-Dichloropropane	mg/l	0.0470	0.0451	4.02	18	94	WG339755
1,4-Dichlorobenzene	mg/l	0.0457	0.0447	2.16	17	91	WG339755
2-Butanone (MEK)	mg/l	0.186	0.255	31.2	21	74	WG339755
2-Hexanone	mg/l	0.188	0.245	26.0	19	75	WG339755
4-Methyl-2-pentanone (MIBK)	mg/l	0.186	0.233	22.1	21	75	WG339755
Acetone	mg/l	0.178	0.243	30.9	20	71	WG339755
Acrylonitrile	mg/l	0.179	0.227	23.8	20	71	WG339755
Benzene	mg/l	0.0411	0.0409	0.572	16	82	WG339755
Bromochloromethane	mg/l	0.0435	0.0427	1.85	17	87	WG339755
Bromodichloromethane	mg/l	0.0477	0.0454	4.97	17	95	WG339755
Bromoform	mg/l	0.0469	0.0482	2.88	15	94	WG339755
Bromomethane	mg/l	0.0548	0.0552	0.749	21	110	WG339755
Carbon disulfide	mg/l	0.0550	0.0570	3.67	20	110	WG339755
Carbon tetrachloride	mg/l	0.0473	0.0486	2.83	17	95	WG339755
Chlorobenzene	mg/l	0.0461	0.0442	4.28	16	92	WG339755
Chlorodibromomethane	mg/l	0.0528	0.0511	3.17	15	106	WG339755
Chloroethane	mg/l	0.0619	0.0596	3.79	24	124	WG339755
Chloroform	mg/l	0.0425	0.0417	1.99	15	85	WG339755
Chloromethane	mg/l	0.0435	0.0440	1.23	22	87	WG339755
cis-1,2-Dichloroethene	mg/l	0.0419	0.0419	0.0292	15	84	WG339755
cis-1,3-Dichloropropene	mg/l	0.0481	0.0470	2.42	18	96	WG339755
Dibromomethane	mg/l	0.0435	0.0444	2.18	16	87	WG339755
Ethylbenzene	mg/l	0.0437	0.0427	2.38	17	87	WG339755
Iodomethane	mg/l	0.248	0.249	0.151	22	99	WG339755

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Methylene Chloride	mg/l	0.0432	0.0437	1.12	17	86	WG339755

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
Styrene	mg/l	0.0465	0.0446	4.27	17	93	WG339755
Tetrachloroethene	mg/l	0.0443	0.0436	1.61	18	89	WG339755
Toluene	mg/l	0.0436	0.0428	1.86	18	87	WG339755
trans-1,2-Dichloroethene	mg/l	0.0409	0.0418	2.18	22	82	WG339755
trans-1,3-Dichloropropene	mg/l	0.0497	0.0487	1.95	18	99	WG339755
trans-1,4-Dichloro-2-butene	mg/l	0.0464	0.0515	10.4	20	93	WG339755
Trichloroethene	mg/l	0.0440	0.0433	1.72	16	88	WG339755
Trichlorofluoromethane	mg/l	0.0448	0.0450	0.396	19	90	WG339755
Vinyl acetate	mg/l	0.107	0.147	31.3	23	43	WG339755
Vinyl chloride	mg/l	0.0417	0.0429	2.78	17	83	WG339755
Xylenes, Total	mg/l	0.137	0.133	2.82	17	91	WG339755
cis-1,2-Dichloroethene	mg/l	0.0432	0.0462	6.53	15	86	WG339942
1,1,1,2-Tetrachloroethane	mg/l	0.0495	0.0492	0.580	17	99	WG340474
1,1,1-Trichloroethane	mg/l	0.0467	0.0462	1.05	17	93	WG340474
1,1,2,2-Tetrachloroethane	mg/l	0.0576	0.0545	5.53	16	115	WG340474
1,1,2-Trichloroethane	mg/l	0.0539	0.0522	3.10	16	108	WG340474
1,1-Dichloroethane	mg/l	0.0493	0.0478	2.99	22	99	WG340474
1,1-Dichloroethene	mg/l	0.0551	0.0532	3.41	17	110	WG340474
1,2,3-Trichloropropane	mg/l	0.0573	0.0545	5.03	18	115	WG340474
1,2-Dichlorobenzene	mg/l	0.0538	0.0513	4.80	16	108	WG340474
1,2-Dichloroethane	mg/l	0.0498	0.0476	4.53	15	100	WG340474
1,2-Dichloropropane	mg/l	0.0509	0.0493	3.20	18	102	WG340474
1,4-Dichlorobenzene	mg/l	0.0496	0.0479	3.60	17	99	WG340474
2-Butanone (MEK)	mg/l	0.278	0.264	4.99	21	111	WG340474
2-Hexanone	mg/l	0.322	0.301	6.62	19	129	WG340474
4-Methyl-2-pentanone (MIBK)	mg/l	0.316	0.290	8.61	21	126	WG340474
Acetone	mg/l	0.403	0.375	7.36	20	161	WG340474
Acrylonitrile	mg/l	0.285	0.266	7.17	20	114	WG340474
Benzene	mg/l	0.0510	0.0491	3.95	16	102	WG340474
Bromochloromethane	mg/l	0.0563	0.0533	5.46	17	113	WG340474
Bromodichloromethane	mg/l	0.0489	0.0475	2.82	17	98	WG340474
Bromoform	mg/l	0.0602	0.0580	3.66	15	120	WG340474
Bromomethane	mg/l	0.0525	0.0497	5.45	21	105	WG340474
Carbon disulfide	mg/l	0.0642	0.0631	1.64	20	128	WG340474
Carbon tetrachloride	mg/l	0.0409	0.0401	2.12	17	82	WG340474
Chlorobenzene	mg/l	0.0468	0.0460	1.82	16	94	WG340474
Chlorodibromomethane	mg/l	0.0505	0.0496	1.98	15	101	WG340474
Chloroethane	mg/l	0.0496	0.0492	0.818	24	99	WG340474
Chloroform	mg/l	0.0475	0.0455	4.20	15	95	WG340474
Chloromethane	mg/l	0.0425	0.0412	3.10	22	85	WG340474
cis-1,3-Dichloropropene	mg/l	0.0627	0.0604	3.78	18	125	WG340474
Dibromomethane	mg/l	0.0554	0.0534	3.69	16	111	WG340474
Ethylbenzene	mg/l	0.0441	0.0437	0.957	17	88	WG340474
Iodomethane	mg/l	0.266	0.259	2.46	22	106	WG340474
Methylene Chloride	mg/l	0.0478	0.0461	3.56	17	96	WG340474
Styrene	mg/l	0.0511	0.0501	1.94	17	102	WG340474
Tetrachloroethene	mg/l	0.0481	0.0475	1.14	18	96	WG340474
Toluene	mg/l	0.0504	0.0491	2.50	18	101	WG340474
trans-1,2-Dichloroethene	mg/l	0.0496	0.0484	2.38	22	99	WG340474
trans-1,3-Dichloropropene	mg/l	0.0640	0.0607	5.27	18	128	WG340474
trans-1,4-Dichloro-2-butene	mg/l	0.0498	0.0485	2.65	20	100	WG340474
Trichloroethene	mg/l	0.0520	0.0504	3.05	16	104	WG340474
Trichlorofluoromethane	mg/l	0.0479	0.0473	1.39	19	96	WG340474
Vinyl acetate	mg/l	0.307	0.298	3.03	23	123	WG340474
Vinyl chloride	mg/l	0.0534	0.0514	3.91	17	107	WG340474
Xylenes, Total	mg/l	0.141	0.140	0.871	17	94	WG340474

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Est. 1970

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

Raleigh, NC 27616

Quality Assurance Report
Level II

L327430

January 18, 2008

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Antimony	mg/l	0.0595	0.0010	.0567	103.	75-125	L327444-03	WG339726
Arsenic	mg/l	0.0578	0.00	.0567	102.	75-125	L327444-03	WG339726
Beryllium	mg/l	0.0583	0.0003	.0567	102.	75-125	L327444-03	WG339726
Cadmium	mg/l	0.0583	0.0003	.0567	102.	75-125	L327444-03	WG339726
Copper	mg/l	0.0609	0.0008	.0567	106.	75-125	L327444-03	WG339726
Selenium	mg/l	0.0564	0.0003	.0567	98.8	75-125	L327444-03	WG339726
Thallium	mg/l	0.0589	0.00	.0567	104.	75-125	L327444-03	WG339726
Zinc	mg/l	0.0554	0.00	.0567	97.7	75-125	L327444-03	WG339726
Mercury	mg/l	0.0028	0.00	.003	95.7	70-130	L327430-10	WG339736
1,1,1,2-Tetrachloroethane	mg/l	0.0631	0.00	.05	126.	57-133	L327439-20	WG339744
1,1,1-Trichloroethane	mg/l	0.0643	0.00	.05	129.	54-143	L327439-20	WG339744
1,1,2,2-Tetrachloroethane	mg/l	0.0688	0.00	.05	138.	58-134	L327439-20	WG339744
1,1,2-Trichloroethane	mg/l	0.0606	0.00	.05	121.	58-125	L327439-20	WG339744
1,1-Dichloroethane	mg/l	0.0639	0.0011	.05	126.	53-136	L327439-20	WG339744
1,1-Dichloroethene	mg/l	0.0542	0.00	.05	108.	58-145	L327439-20	WG339744
1,2,3-Trichloropropane	mg/l	0.0693	0.00	.05	139.	57-145	L327439-20	WG339744
1,2-Dichlorobenzene	mg/l	0.0622	0.00	.05	124.	50-127	L327439-20	WG339744
1,2-Dichloroethane	mg/l	0.0662	0.00	.05	132.	54-145	L327439-20	WG339744
1,2-Dichloropropane	mg/l	0.0641	0.00	.05	128.	55-135	L327439-20	WG339744
1,4-Dichlorobenzene	mg/l	0.0551	0.00	.05	110.	47-123	L327439-20	WG339744
2-Butanone (MEK)	mg/l	0.323	0.00	.25	129.	47-133	L327439-20	WG339744
2-Hexanone	mg/l	0.355	0.00	.25	142.	41-138	L327439-20	WG339744
4-Methyl-2-pentanone (MIBK)	mg/l	0.416	0.00	.25	166.	45-144	L327439-20	WG339744
Acetone	mg/l	0.465	0.00	.25	186.	25-158	L327439-20	WG339744
Acrylonitrile	mg/l	0.370	0.00	.25	148.	39-136	L327439-20	WG339744
Benzene	mg/l	0.0580	0.00	.05	116.	51-134	L327439-20	WG339744
Bromochloromethane	mg/l	0.0592	0.00	.05	118.	58-135	L327439-20	WG339744
Bromodichloromethane	mg/l	0.0694	0.00	.05	139.	54-139	L327439-20	WG339744
Bromoform	mg/l	0.0736	0.00	.05	147.	52-144	L327439-20	WG339744
Bromomethane	mg/l	0.0483	0.00	.05	96.6	21-131	L327439-20	WG339744
Carbon disulfide	mg/l	0.0383	0.00	.05	76.5	40-145	L327439-20	WG339744
Carbon tetrachloride	mg/l	0.0575	0.00	.05	115.	51-147	L327439-20	WG339744
Chlorobenzene	mg/l	0.0529	0.00	.05	106.	59-125	L327439-20	WG339744
Chlorodibromomethane	mg/l	0.0623	0.00	.05	125.	57-133	L327439-20	WG339744
Chloroethane	mg/l	0.0477	0.00	.05	95.3	38-153	L327439-20	WG339744
Chloroform	mg/l	0.0664	0.00	.05	133.	55-133	L327439-20	WG339744
Chloromethane	mg/l	0.0396	0.00	.05	79.1	39-135	L327439-20	WG339744
cis-1,2-Dichloroethene	mg/l	0.0599	0.00	.05	120.	64-126	L327439-20	WG339744
cis-1,3-Dichloropropene	mg/l	0.0702	0.00	.05	140.	54-122	L327439-20	WG339744
Dibromomethane	mg/l	0.0656	0.00	.05	131.	61-132	L327439-20	WG339744
Ethylbenzene	mg/l	0.0479	0.00	.05	95.9	55-125	L327439-20	WG339744
Iodomethane	mg/l	0.229	0.00	.25	91.6	43-118	L327439-20	WG339744
Methylene Chloride	mg/l	0.0506	0.00	.05	101.	44-143	L327439-20	WG339744
Styrene	mg/l	0.0568	0.00	.05	114.	55-121	L327439-20	WG339744
Tetrachloroethene	mg/l	0.0408	0.00	.05	81.6	53-128	L327439-20	WG339744
Toluene	mg/l	0.0574	0.00	.05	115.	57-126	L327439-20	WG339744
trans-1,2-Dichloroethene	mg/l	0.0462	0.00	.05	92.4	52-139	L327439-20	WG339744
trans-1,3-Dichloropropene	mg/l	0.0699	0.00	.05	140.	48-113	L327439-20	WG339744
trans-1,4-Dichloro-2-butene	mg/l	0.0506	0.00	.05	101.	48-150	L327439-20	WG339744
Trichloroethene	mg/l	0.0541	0.00	.05	108.	57-135	L327439-20	WG339744
Trichlorofluoromethane	mg/l	0.0542	0.00	.05	108.	42-134	L327439-20	WG339744
Vinyl acetate	mg/l	0.376	0.00	.25	150.	44-157	L327439-20	WG339744
Vinyl chloride	mg/l	0.0454	0.00	.05	90.9	44-132	L327439-20	WG339744
Xylenes, Total	mg/l	0.154	0.00	.15	103.	54-129	L327439-20	WG339744
1,1,1,2-Tetrachloroethane	mg/l	0.0432	0.00	.05	86.4	57-133	L327274-01	WG339755
1,1,1-Trichloroethane	mg/l	0.0377	0.00	.05	75.3	54-143	L327274-01	WG339755
1,1,2,2-Tetrachloroethane	mg/l	0.0405	0.00	.05	81.0	58-134	L327274-01	WG339755

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1,1,2-Trichloroethane	mg/l	0.0404	0.00	.05	80.8	58-125	L327274-01	WG339755

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1-Dichloroethane	mg/l	0.0378	0.00	.05	75.7	53-136	L327274-01	WG339755
1,1-Dichloroethene	mg/l	0.0338	0.00	.05	67.6	58-145	L327274-01	WG339755
1,2,3-Trichloropropane	mg/l	0.0409	0.00	.05	81.8	57-145	L327274-01	WG339755
1,2-Dichlorobenzene	mg/l	0.0376	0.00	.05	75.2	50-127	L327274-01	WG339755
1,2-Dichloroethane	mg/l	0.0430	0.00	.05	86.0	54-145	L327274-01	WG339755
1,2-Dichloropropane	mg/l	0.0419	0.00	.05	83.9	55-135	L327274-01	WG339755
1,4-Dichlorobenzene	mg/l	0.0339	0.00	.05	67.8	47-123	L327274-01	WG339755
2-Butanone (MEK)	mg/l	0.217	0.00	.25	86.9	47-133	L327274-01	WG339755
2-Hexanone	mg/l	0.204	0.00	.25	81.8	41-138	L327274-01	WG339755
4-Methyl-2-pentanone (MIBK)	mg/l	0.217	0.00	.25	86.6	45-144	L327274-01	WG339755
Acetone	mg/l	0.228	0.0481	.25	71.9	25-158	L327274-01	WG339755
Acrylonitrile	mg/l	0.208	0.00	.25	83.1	39-136	L327274-01	WG339755
Benzene	mg/l	0.0348	0.00	.05	69.6	51-134	L327274-01	WG339755
Bromochloromethane	mg/l	0.0395	0.00	.05	79.0	58-135	L327274-01	WG339755
Bromodichloromethane	mg/l	0.0436	0.00	.05	87.3	54-139	L327274-01	WG339755
Bromoform	mg/l	0.0411	0.00	.05	82.1	52-144	L327274-01	WG339755
Bromomethane	mg/l	0.0450	0.00	.05	90.0	21-131	L327274-01	WG339755
Carbon disulfide	mg/l	0.0342	0.00	.05	68.5	40-145	L327274-01	WG339755
Carbon tetrachloride	mg/l	0.0390	0.00	.05	78.0	51-147	L327274-01	WG339755
Chlorobenzene	mg/l	0.0350	0.00	.05	70.0	59-125	L327274-01	WG339755
Chlorodibromomethane	mg/l	0.0452	0.00	.05	90.5	57-133	L327274-01	WG339755
Chloroethane	mg/l	0.0455	0.00	.05	90.9	38-153	L327274-01	WG339755
Chloroform	mg/l	0.0400	0.0005	.05	78.8	55-133	L327274-01	WG339755
Chloromethane	mg/l	0.0342	0.00	.05	68.3	39-135	L327274-01	WG339755
cis-1,2-Dichloroethene	mg/l	0.0363	0.00	.05	72.7	64-126	L327274-01	WG339755
cis-1,3-Dichloropropene	mg/l	0.0379	0.00	.05	75.8	54-122	L327274-01	WG339755
Dibromomethane	mg/l	0.0407	0.00	.05	81.5	61-132	L327274-01	WG339755
Ethylbenzene	mg/l	0.0323	0.00	.05	64.7	55-125	L327274-01	WG339755
Iodomethane	mg/l	0.199	0.00	.25	79.5	43-118	L327274-01	WG339755
Methylene Chloride	mg/l	0.0388	0.00	.05	77.7	44-143	L327274-01	WG339755
Styrene	mg/l	0.0327	0.00	.05	65.4	55-121	L327274-01	WG339755
Tetrachloroethene	mg/l	0.0290	0.00	.05	57.9	53-128	L327274-01	WG339755
Toluene	mg/l	0.0354	0.00	.05	70.9	57-126	L327274-01	WG339755
trans-1,2-Dichloroethene	mg/l	0.0312	0.00	.05	62.3	52-139	L327274-01	WG339755
trans-1,3-Dichloropropene	mg/l	0.0396	0.00	.05	79.2	48-113	L327274-01	WG339755
trans-1,4-Dichloro-2-butene	mg/l	0.0339	0.00	.05	67.9	48-150	L327274-01	WG339755
Trichloroethene	mg/l	0.0344	0.00	.05	68.7	57-135	L327274-01	WG339755
Trichlorofluoromethane	mg/l	0.0359	0.00	.05	71.9	42-134	L327274-01	WG339755
Vinyl acetate	mg/l	0.0785	0.00	.25	31.4	44-157	L327274-01	WG339755
Vinyl chloride	mg/l	0.0318	0.00	.05	63.7	44-132	L327274-01	WG339755
Xylenes, Total	mg/l	0.100	0.00	.15	66.7	54-129	L327274-01	WG339755
Barium	mg/l	1.08	0.0009	1.13	95.5	75-125	L327439-26	WG339786
Chromium	mg/l	1.06	0.00	1.13	93.8	75-125	L327439-26	WG339786
Cobalt	mg/l	1.08	0.00	1.13	95.6	75-125	L327439-26	WG339786
Lead	mg/l	1.11	0.00	1.13	98.2	75-125	L327439-26	WG339786
Nickel	mg/l	1.06	0.00	1.13	93.8	75-125	L327439-26	WG339786
Silver	mg/l	1.06	0.0001	1.13	93.8	75-125	L327439-26	WG339786
Vanadium	mg/l	1.08	0.0006	1.13	95.5	75-125	L327439-26	WG339786

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
Antimony	mg/l	0.0601	0.0595	1.00	20	104.	L327444-03	WG339726
Arsenic	mg/l	0.0571	0.0578	1.22	20	101.	L327444-03	WG339726
Beryllium	mg/l	0.0573	0.0583	1.73	20	101.	L327444-03	WG339726
Cadmium	mg/l	0.0585	0.0583	0.342	20	103.	L327444-03	WG339726
Copper	mg/l	0.0600	0.0609	1.49	20	104.	L327444-03	WG339726
Selenium	mg/l	0.0552	0.0564	2.15	20	96.7	L327444-03	WG339726

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Thallium	mg/l	0.0582	0.0589	1.20	20	103.	L327444-03	WG339726

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
Zinc	mg/l	0.0540	0.0554	2.56	20	95.2	L327444-03	WG339726
Mercury	mg/l	0.0026	0.0028	6.47	20	89.7	L327430-10	WG339736
1,1,1,2-Tetrachloroethane	mg/l	0.0633	0.0631	0.272	21	127.	L327439-20	WG339744
1,1,1-Trichloroethane	mg/l	0.0603	0.0643	6.28	22	121.	L327439-20	WG339744
1,1,2,2-Tetrachloroethane	mg/l	0.0680	0.0688	1.18	27	136.	L327439-20	WG339744
1,1,2-Trichloroethane	mg/l	0.0632	0.0606	4.27	19	126.	L327439-20	WG339744
1,1-Dichloroethane	mg/l	0.0626	0.0639	2.02	22	123.	L327439-20	WG339744
1,1-Dichloroethene	mg/l	0.0541	0.0542	0.217	22	108.	L327439-20	WG339744
1,2,3-Trichloropropane	mg/l	0.0669	0.0693	3.59	24	134.	L327439-20	WG339744
1,2-Dichlorobenzene	mg/l	0.0640	0.0622	2.81	19	128.	L327439-20	WG339744
1,2-Dichloroethane	mg/l	0.0615	0.0662	7.34	21	123.	L327439-20	WG339744
1,2-Dichloropropane	mg/l	0.0628	0.0641	2.00	20	126.	L327439-20	WG339744
1,4-Dichlorobenzene	mg/l	0.0580	0.0551	4.99	18	116.	L327439-20	WG339744
2-Butanone (MEK)	mg/l	0.314	0.323	2.70	22	126.	L327439-20	WG339744
2-Hexanone	mg/l	0.359	0.355	1.11	28	144.	L327439-20	WG339744
4-Methyl-2-pentanone (MIBK)	mg/l	0.394	0.416	5.54	25	157.	L327439-20	WG339744
Acetone	mg/l	0.426	0.465	8.69	33	170.	L327439-20	WG339744
Acrylonitrile	mg/l	0.353	0.370	4.72	25	141.	L327439-20	WG339744
Benzene	mg/l	0.0572	0.0580	1.32	18	114.	L327439-20	WG339744
Bromochloromethane	mg/l	0.0591	0.0592	0.195	19	118.	L327439-20	WG339744
Bromodichloromethane	mg/l	0.0656	0.0694	5.53	19	131.	L327439-20	WG339744
Bromoform	mg/l	0.0731	0.0736	0.706	21	146.	L327439-20	WG339744
Bromomethane	mg/l	0.0469	0.0483	2.86	24	93.8	L327439-20	WG339744
Carbon disulfide	mg/l	0.0387	0.0383	1.06	30	77.3	L327439-20	WG339744
Carbon tetrachloride	mg/l	0.0538	0.0575	6.55	23	108.	L327439-20	WG339744
Chlorobenzene	mg/l	0.0557	0.0529	5.05	22	111.	L327439-20	WG339744
Chlorodibromomethane	mg/l	0.0630	0.0623	1.11	19	126.	L327439-20	WG339744
Chloroethane	mg/l	0.0441	0.0477	7.87	25	88.1	L327439-20	WG339744
Chloroform	mg/l	0.0633	0.0664	4.92	20	127.	L327439-20	WG339744
Chloromethane	mg/l	0.0373	0.0396	5.79	23	74.7	L327439-20	WG339744
cis-1,2-Dichloroethene	mg/l	0.0599	0.0599	0.0396	18	120.	L327439-20	WG339744
cis-1,3-Dichloropropene	mg/l	0.0708	0.0702	0.836	22	142.	L327439-20	WG339744
Dibromomethane	mg/l	0.0623	0.0656	5.19	19	125.	L327439-20	WG339744
Ethylbenzene	mg/l	0.0516	0.0479	7.43	20	103.	L327439-20	WG339744
Iodomethane	mg/l	0.238	0.229	3.94	25	95.3	L327439-20	WG339744
Methylene Chloride	mg/l	0.0514	0.0506	1.63	22	103.	L327439-20	WG339744
Styrene	mg/l	0.0580	0.0568	2.00	27	116.	L327439-20	WG339744
Tetrachloroethene	mg/l	0.0444	0.0408	8.52	24	88.9	L327439-20	WG339744
Toluene	mg/l	0.0564	0.0574	1.63	26	113.	L327439-20	WG339744
trans-1,2-Dichloroethene	mg/l	0.0473	0.0462	2.25	24	94.5	L327439-20	WG339744
trans-1,3-Dichloropropene	mg/l	0.0715	0.0699	2.15	22	143.	L327439-20	WG339744
trans-1,4-Dichloro-2-butene	mg/l	0.0520	0.0506	2.59	24	104.	L327439-20	WG339744
Trichloroethene	mg/l	0.0552	0.0541	2.00	23	110.	L327439-20	WG339744
Trichlorofluoromethane	mg/l	0.0484	0.0542	11.2	21	96.8	L327439-20	WG339744
Vinyl acetate	mg/l	0.362	0.376	3.83	28	145.	L327439-20	WG339744
Vinyl chloride	mg/l	0.0442	0.0454	2.73	24	88.4	L327439-20	WG339744
Xylenes, Total	mg/l	0.157	0.154	2.10	24	105.	L327439-20	WG339744
1,1,1,2-Tetrachloroethane	mg/l	0.0499	0.0432	14.5	21	99.9	L327274-01	WG339755
1,1,1-Trichloroethane	mg/l	0.0410	0.0377	8.45	22	82.0	L327274-01	WG339755
1,1,2,2-Tetrachloroethane	mg/l	0.0463	0.0405	13.4	27	92.6	L327274-01	WG339755
1,1,2-Trichloroethane	mg/l	0.0456	0.0404	12.1	19	91.1	L327274-01	WG339755
1,1-Dichloroethane	mg/l	0.0406	0.0378	7.16	22	81.3	L327274-01	WG339755
1,1-Dichloroethene	mg/l	0.0372	0.0338	9.47	22	74.3	L327274-01	WG339755
1,2,3-Trichloropropane	mg/l	0.0473	0.0409	14.6	24	94.7	L327274-01	WG339755
1,2-Dichlorobenzene	mg/l	0.0403	0.0376	7.10	19	80.7	L327274-01	WG339755
1,2-Dichloroethane	mg/l	0.0453	0.0430	5.19	21	90.6	L327274-01	WG339755

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Michelle Logut
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Raleigh, NC 27616

Quality Assurance Report
Level II

L327430

January 18, 2008

1,2-Dichloropropane	mg/l	0.0450	0.0419	7.04	20	90.0	L327274-01	WG339755

		Matrix Spike Duplicate						
Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
1,4-Dichlorobenzene	mg/l	0.0361	0.0339	6.28	18	72.2	L327274-01	WG339755
2-Butanone (MEK)	mg/l	0.240	0.217	9.93	22	96.0	L327274-01	WG339755
2-Hexanone	mg/l	0.235	0.204	13.7	28	93.8	L327274-01	WG339755
4-Methyl-2-pentanone (MIBK)	mg/l	0.231	0.217	6.44	25	92.4	L327274-01	WG339755
Acetone	mg/l	0.243	0.228	6.39	33	77.9	L327274-01	WG339755
Acrylonitrile	mg/l	0.223	0.208	7.25	25	89.4	L327274-01	WG339755
Benzene	mg/l	0.0377	0.0348	7.88	18	75.3	L327274-01	WG339755
Bromochloromethane	mg/l	0.0418	0.0395	5.52	19	83.5	L327274-01	WG339755
Bromodichloromethane	mg/l	0.0468	0.0436	7.02	19	93.6	L327274-01	WG339755
Bromoform	mg/l	0.0483	0.0411	16.2	21	96.5	L327274-01	WG339755
Bromomethane	mg/l	0.0465	0.0450	3.15	24	92.9	L327274-01	WG339755
Carbon disulfide	mg/l	0.0371	0.0342	7.89	30	74.1	L327274-01	WG339755
Carbon tetrachloride	mg/l	0.0424	0.0390	8.32	23	84.8	L327274-01	WG339755
Chlorobenzene	mg/l	0.0402	0.0350	13.8	22	80.4	L327274-01	WG339755
Chlorodibromomethane	mg/l	0.0515	0.0452	13.0	19	103.	L327274-01	WG339755
Chloroethane	mg/l	0.0468	0.0455	2.95	25	93.6	L327274-01	WG339755
Chloroform	mg/l	0.0425	0.0400	6.26	20	84.0	L327274-01	WG339755
Chloromethane	mg/l	0.0363	0.0342	6.22	23	72.7	L327274-01	WG339755
cis-1,2-Dichloroethene	mg/l	0.0389	0.0363	6.72	18	77.8	L327274-01	WG339755
cis-1,3-Dichloropropene	mg/l	0.0421	0.0379	10.4	22	84.2	L327274-01	WG339755
Dibromomethane	mg/l	0.0438	0.0407	7.24	19	87.6	L327274-01	WG339755
Ethylbenzene	mg/l	0.0371	0.0323	13.8	20	74.2	L327274-01	WG339755
Iodomethane	mg/l	0.219	0.199	9.61	25	87.6	L327274-01	WG339755
Methylene Chloride	mg/l	0.0414	0.0388	6.36	22	82.8	L327274-01	WG339755
Styrene	mg/l	0.0378	0.0327	14.5	27	75.6	L327274-01	WG339755
Tetrachloroethene	mg/l	0.0336	0.0290	14.9	24	67.3	L327274-01	WG339755
Toluene	mg/l	0.0383	0.0354	7.86	26	76.7	L327274-01	WG339755
trans-1,2-Dichloroethene	mg/l	0.0338	0.0312	8.13	24	67.6	L327274-01	WG339755
trans-1,3-Dichloropropene	mg/l	0.0436	0.0396	9.61	22	87.2	L327274-01	WG339755
trans-1,4-Dichloro-2-butene	mg/l	0.0397	0.0339	15.8	24	79.5	L327274-01	WG339755
Trichloroethene	mg/l	0.0373	0.0344	8.18	23	74.6	L327274-01	WG339755
Trichlorofluoromethane	mg/l	0.0384	0.0359	6.67	21	76.8	L327274-01	WG339755
Vinyl acetate	mg/l	0.0850	0.0785	8.01	28	34.0	L327274-01	WG339755
Vinyl chloride	mg/l	0.0348	0.0318	8.85	24	69.6	L327274-01	WG339755
Xylenes, Total	mg/l	0.115	0.100	13.7	24	76.5	L327274-01	WG339755
Barium	mg/l	1.12	1.08	3.64	20	99.0	L327439-26	WG339786
Chromium	mg/l	1.09	1.06	2.79	20	96.5	L327439-26	WG339786
Cobalt	mg/l	1.11	1.08	2.74	20	98.2	L327439-26	WG339786
Lead	mg/l	1.12	1.11	0.897	20	99.1	L327439-26	WG339786
Nickel	mg/l	1.08	1.06	1.87	20	95.6	L327439-26	WG339786
Silver	mg/l	1.09	1.06	2.79	20	96.5	L327439-26	WG339786
Vanadium	mg/l	1.11	1.08	2.74	20	98.2	L327439-26	WG339786

Batch number /Run number / Sample number cross reference

WG339726: R348839: L327430-01 02 03 04 05 06 07 08 09 10 12
WG339755: R348915: L327430-10 11 12
WG339744: R348930: L327430-01 02 03 04 05 06 07 08 09
WG339942: R348993: L327430-08
WG339736: R349004: L327430-01 02 03 04 05 06 07 08 09 10 12
WG339786: R349031: L327430-01 02 03 04 05 06 07 08 09 10 12
WG340474: R349479: L327430-09

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

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Raleigh, NC 27616

Quality Assurance Report
Level II

L327430

January 18, 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

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Raleigh, North Carolina 27604

SMERLNC

Alternate Billing

Report to: MICHELLE LOGUT
E-mail to: MLOGUT@SMEINC.COM

Project Description: EDGECOMBE COUNTY LANDFILL
City/State TARBORO, NC

PHONE: 919-872-2660 / FAX: 919-876-3158
Client Project No. 1054-07-238
ESC KEY: SMERLNC-NCLF

Collected by: M. LOGUT + B. BRYANT
Site/Facility ID#
P.O.#

Collected by(signature): Michelle J. Logut
Packed on Ice N__ Y X

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

Date Results Needed
Email?___No X Yes
FAX?___No___Yes

Chain of Custody
Page 1 of 2

Prepared by:
ENVIRONMENTAL Science Corp
12065 Lebanon Road
Mt. Juliet TN 37122
Phone (615)758-5858
Phone (800) 767-5859

CoCode SMERLNC (lab use only)
Template/Prelogin
Shipped Via: Raleigh Service Center

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No of Cntrs	V8260AP1 (2 VOC Vials with HCL)	V8260AP2 (2 VOC Vials with HCL)	AP1 Metals (500 ml plas. w/HNO3)	AP1 + Geochem mtls. (Mg,Fe,Ca,K, Na)(500 ml w/HNO3)	SV8270AP2 (2 1L Amber)	TOC (250 Amber w/HCL)	BOD,TDS,ALK,Chloride, Sulfate (2x1L plas. No pres.)	COD,NH3 (250 plas. w/H2SO4) EDD - NC SWSL Style	Remarks/contaminant	Sample # (lab only)
MW-1	G	GW	-	1/10/08	11:15	3	X		X							L327430-01
DOWNSTREAM			-		11:25	3	X		X							02
MW-4			-		12:00	3	X		X							03
MW-7A			-		13:55	3	X		X							04
UPSTREAM			-		14:10	3	X		X							05
MW-9			-		15:00	3	X		X							06
MW-6			-		15:35	3	X		X							07
MW-5			-		16:10	3	X		X							08
DUPLICATE			-		-	3	X		X							09

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

pH_____ Temp_____

Remarks:

Flow_____ Other_____

Relinquisher by:(Signature	Date:	Time:	Received by:(Signature)	Samples returned via: FedEx__ UPS__Other	Condition (lab use only)
Michelle J. Logut	1/11/08	11:25	Brent		O/C
Relinquisher by:(Signature	Date:	Time:	Received by: (Signature)	Temp: / Bottles Received: 27 34	
Relinquisher by:(Signature	Date:	Time:	Received for lab by: (Signature)	Date: 1/12/8 / Time: 9:00	pH Checked: <2 / NCF:

Co Code: SMERLNC-NCLF

CHAIN OF CUSTODY RECORD

S&ME
ENVIRONMENTAL SERVICES
ENGINEERING • TESTING

P.O. No.:
Branch: RALEIGH
Department: 1054 - ENV.

S&ME Job No.: 1054-07-238
Project Name: EDGECOMBE COUNTY LANDFILL
Samplers: (signature) Michelle J. Lyon

Station No.	Date	Time	Comp	Grab		Number of Containers	V8260 APA (3 VOAS W/ HCL)	AP1 METALS (500 ML PAS. W/ HNO3)					REMARKS
–	1/10/08	17:30		X	MW-3A	3	X	X					L327430-10
–	–	–	–	–	TRIP BLANK	1	X						11
–	1/11/08	11:15	–	–	EQUIPMENT BLANK	3	X	X					12

Relinquished by: (signature)	Date:	Time:	Received by: (signature)	Relinquished by: (signature)	Date:	Time:	Received by: (signature)
Michelle J. Lyon	1/11/08	11:25	Brent Nadly		1/12/8	9:20	[illegible]
Relinquished by: (signature)	Date:	Time:	Received by: (signature)	Relinquished by: (signature)	Date:	Time:	Received by: (signature)
Relinquished by: (signature)	Date:	Time:	Received by: (Signature)	Remarks Containers 27 34 pH=<2			O/C

S&ME SFP-004
(REV. 5/93)

This document was prepared pursuant to a specific agreement to address the unique requirements of an S&ME client. Prior to further use, an S&ME professional should be contacted for a complete explanation of its preparation and contents.

APPENDIX II

COMPACT DISK WITH ELECTRONIC COPY OF TABLE 1 (.XLS) AND ELECTRONIC COPY OF THIS REPORT (.PDF)

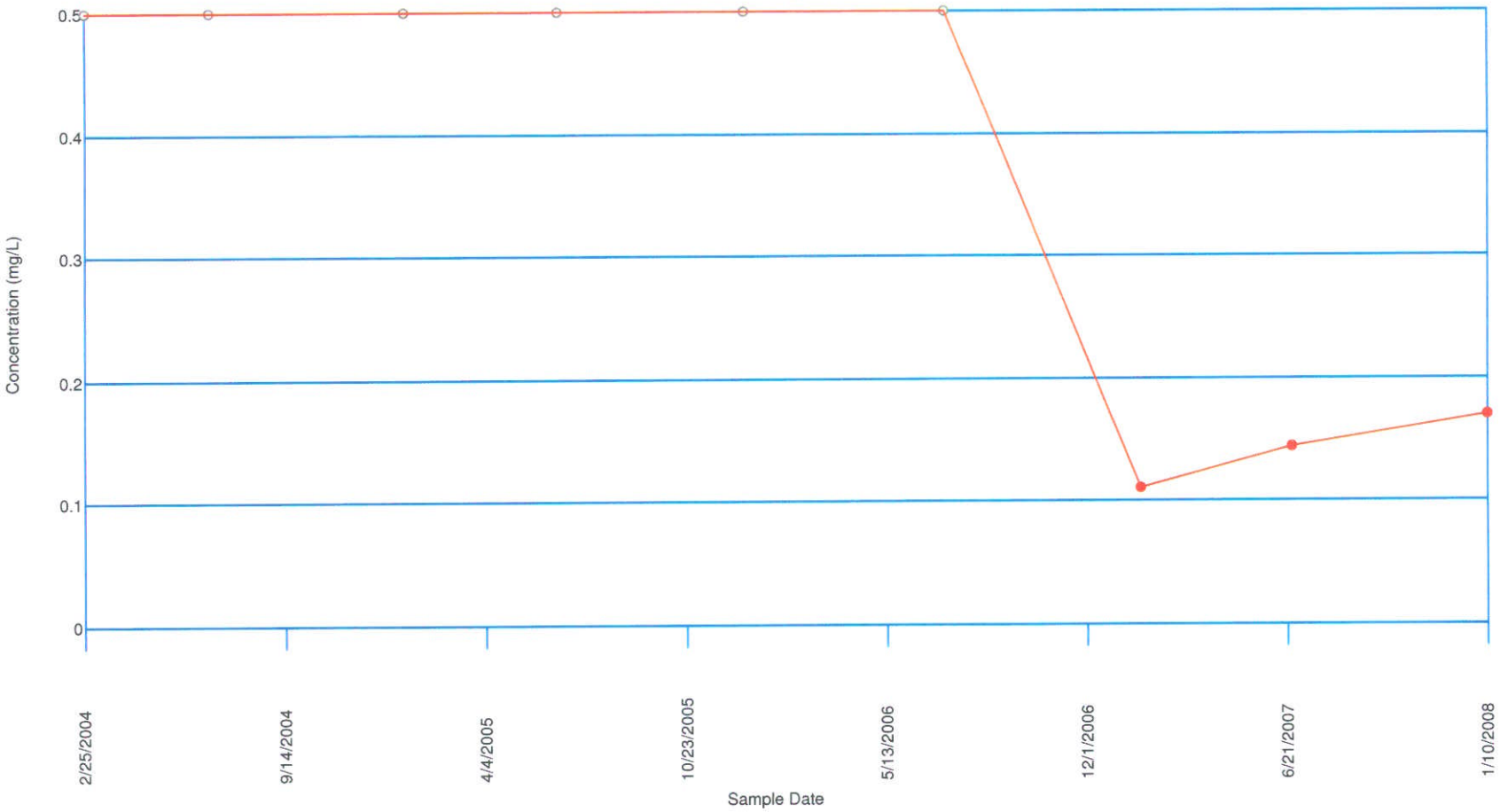
APPENDIX III

TIME SERIES GRAPHS FOR MONITOR WELLS

Edgecombe County Landfill

Barium

Time-Series Graph of MW-3B



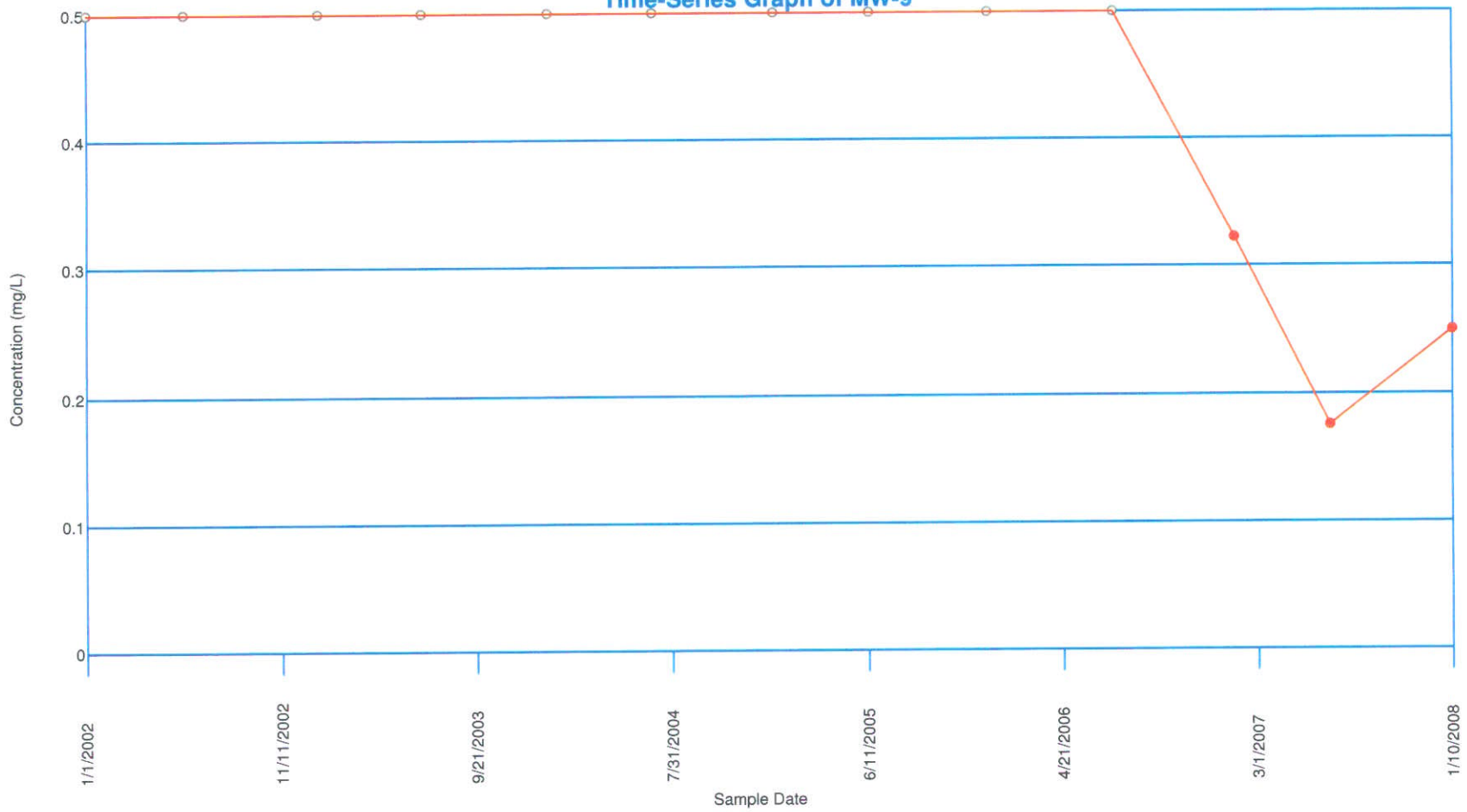
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Barium

Time-Series Graph of MW-9



LEGEND:

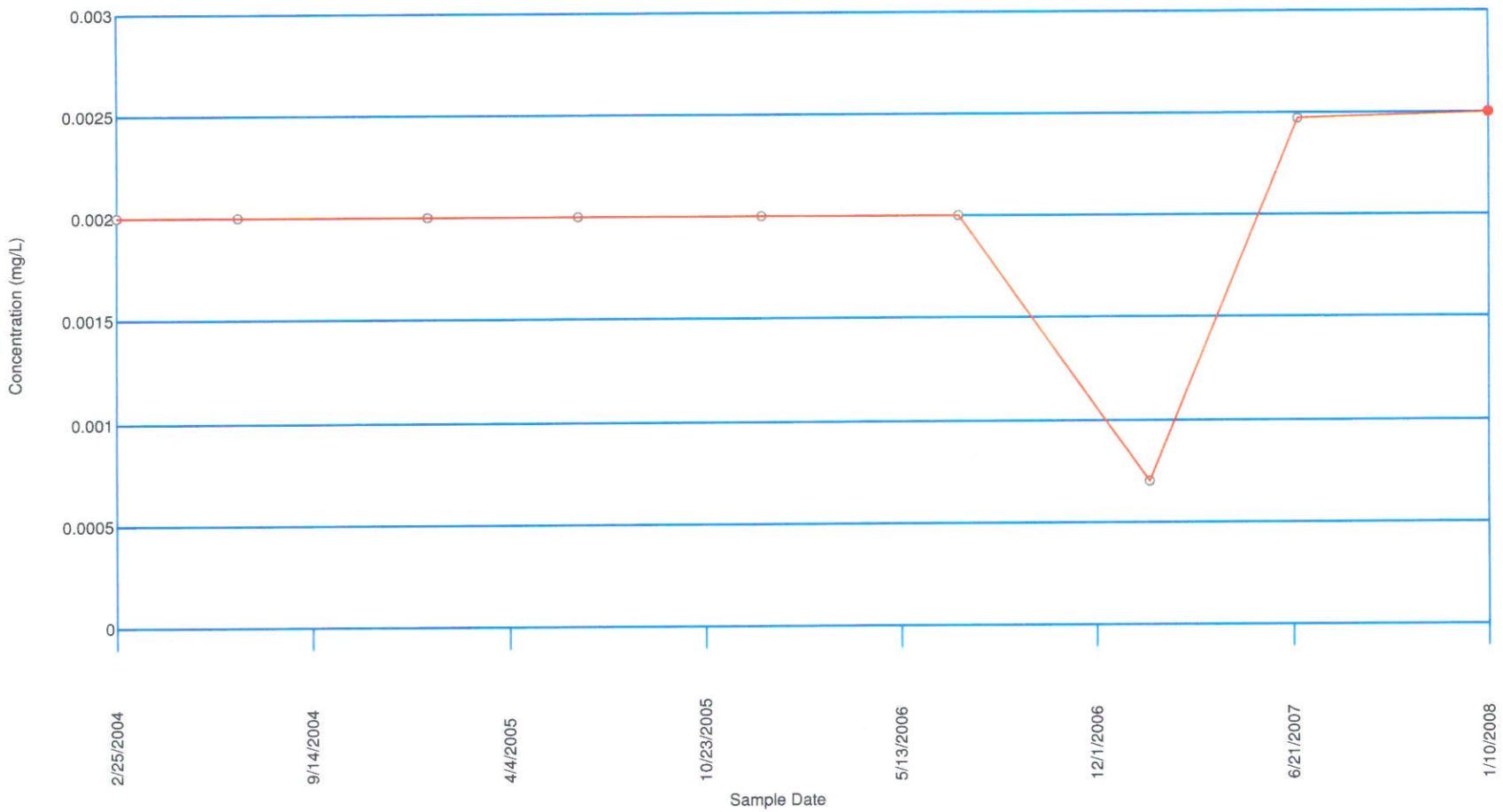
● = Constituent Detected Above Laboratory MDL

○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Beryllium

Time-Series Graph of MW-3B



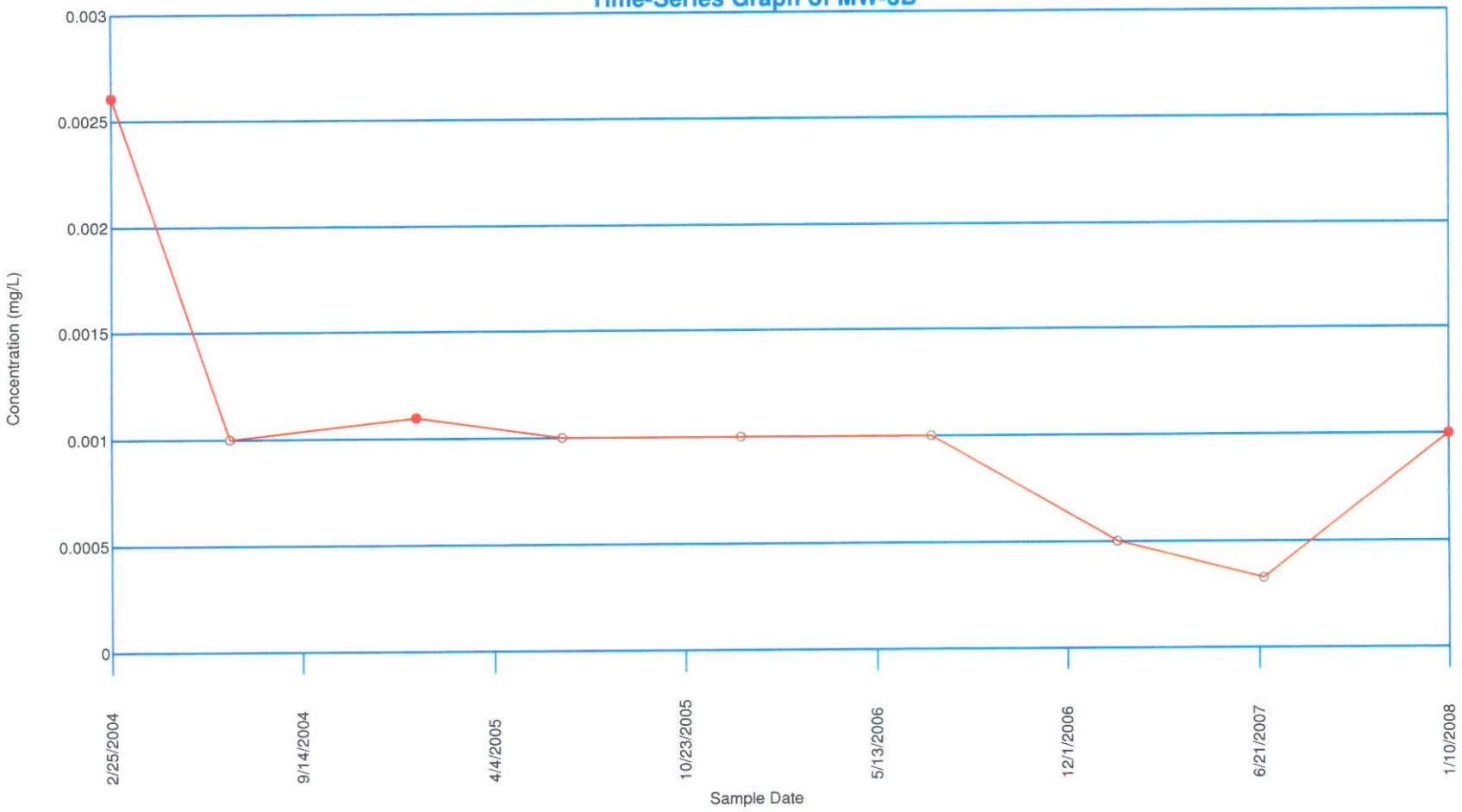
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Cadmium

Time-Series Graph of MW-3B



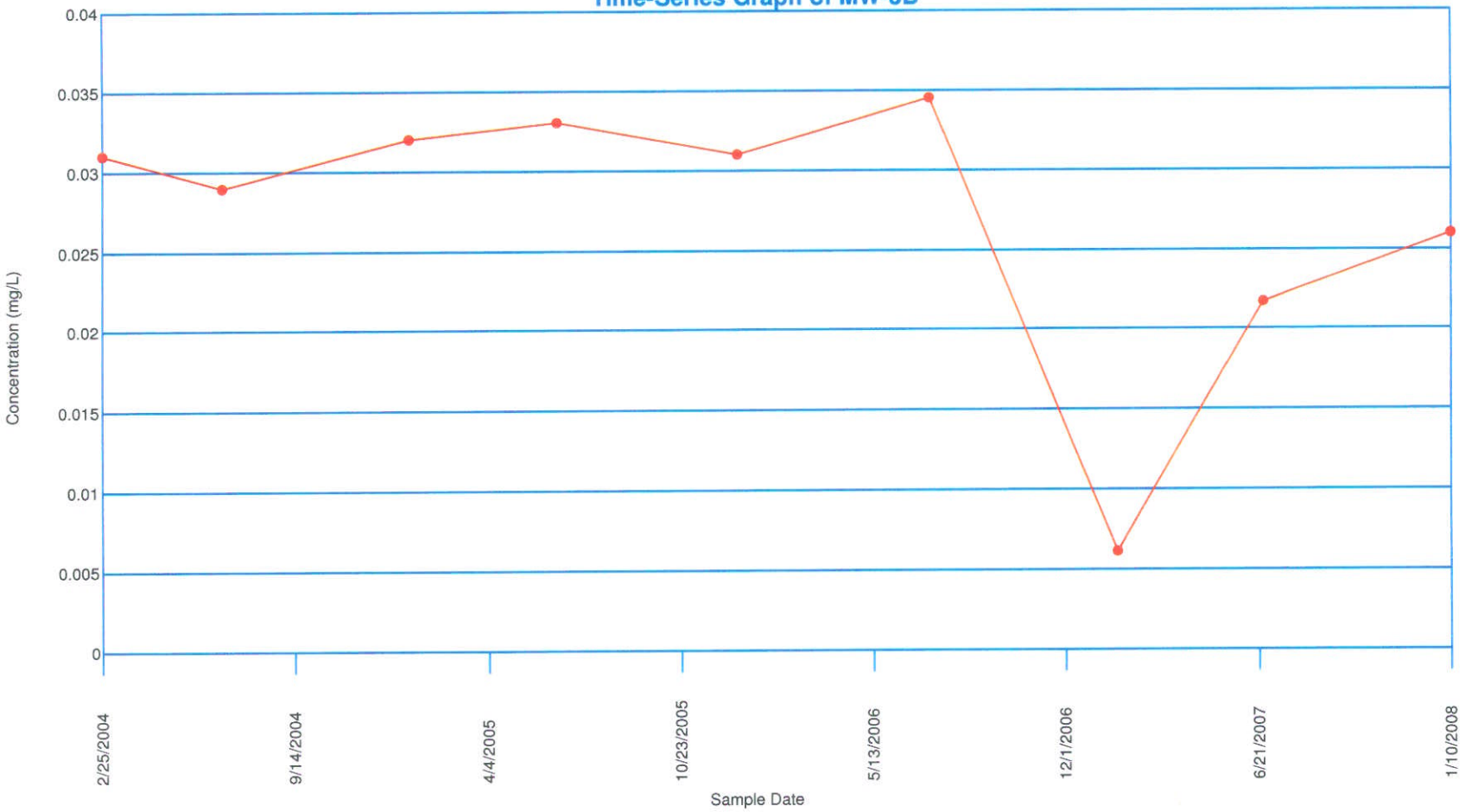
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Cobalt

Time-Series Graph of MW-3B



LEGEND:

- ● = Constituent Detected Above Laboratory MDL
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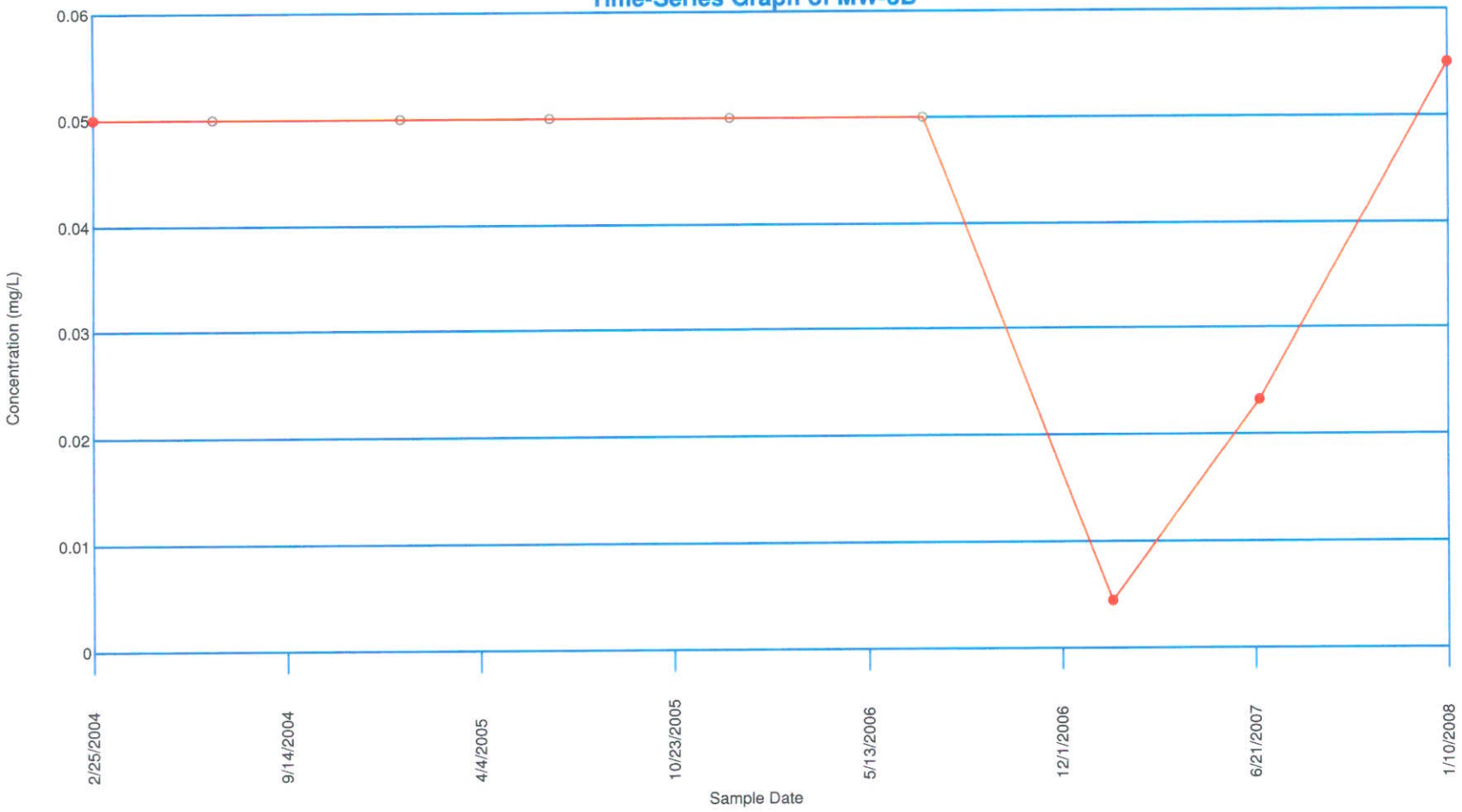
Edgecombe County Landfill

Zinc

Time-Series Graph of MW-3B



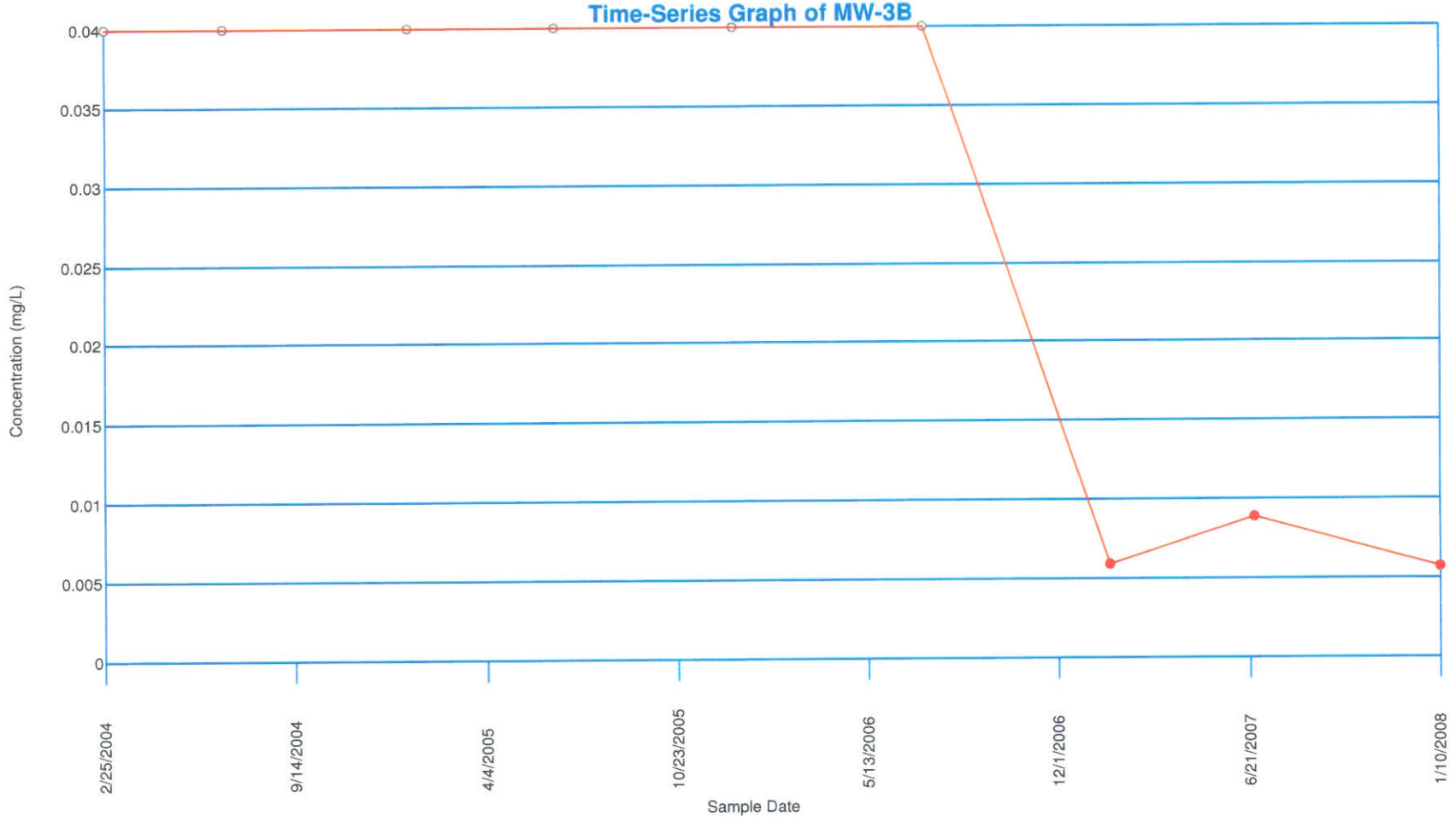
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Vanadium

Time-Series Graph of MW-3B



LEGEND:

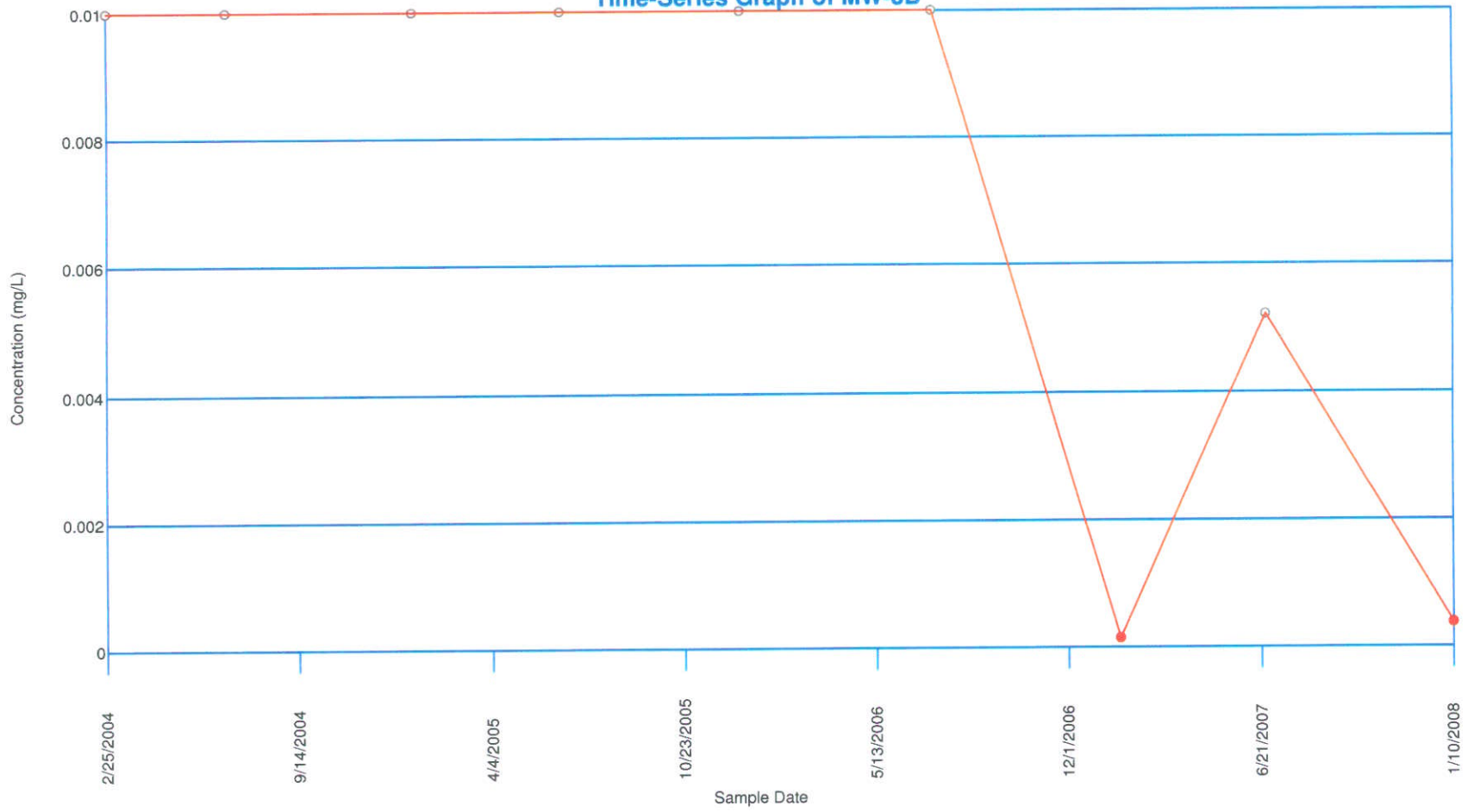
● = Constituent Detected Above Laboratory MDL

○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Thallium

Time-Series Graph of MW-3B



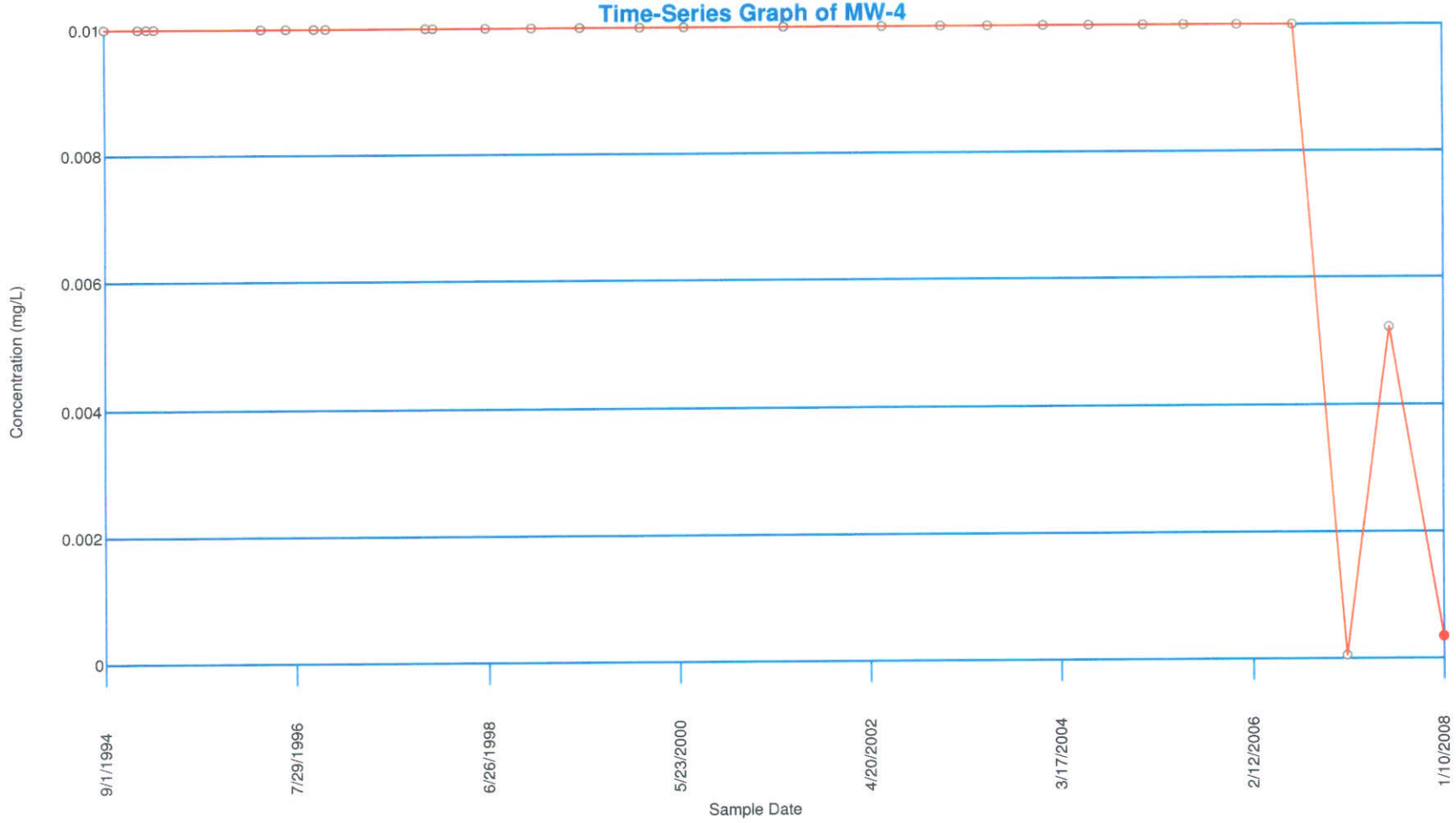
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Thallium

Time-Series Graph of MW-4



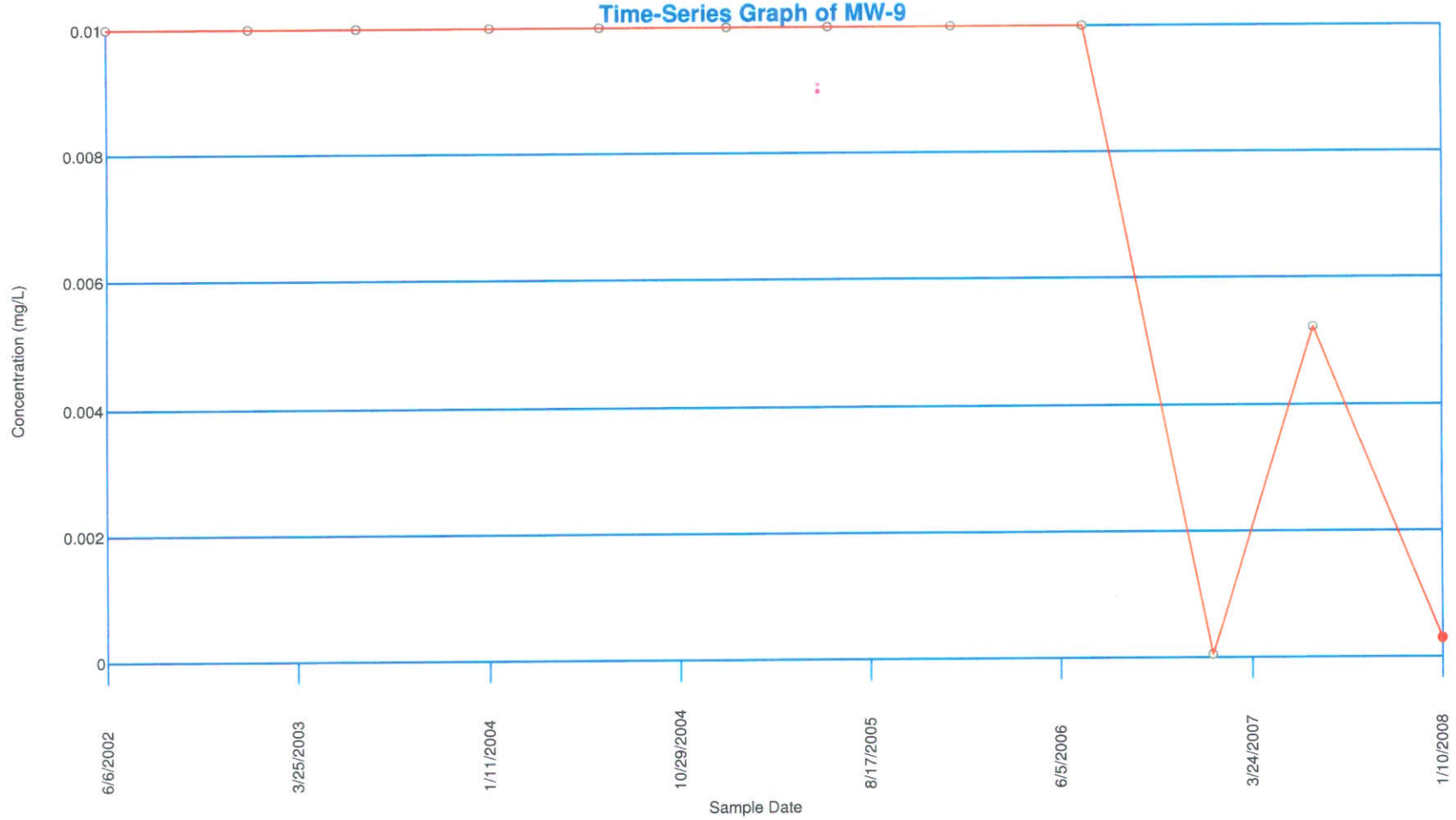
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Thallium

Time-Series Graph of MW-9



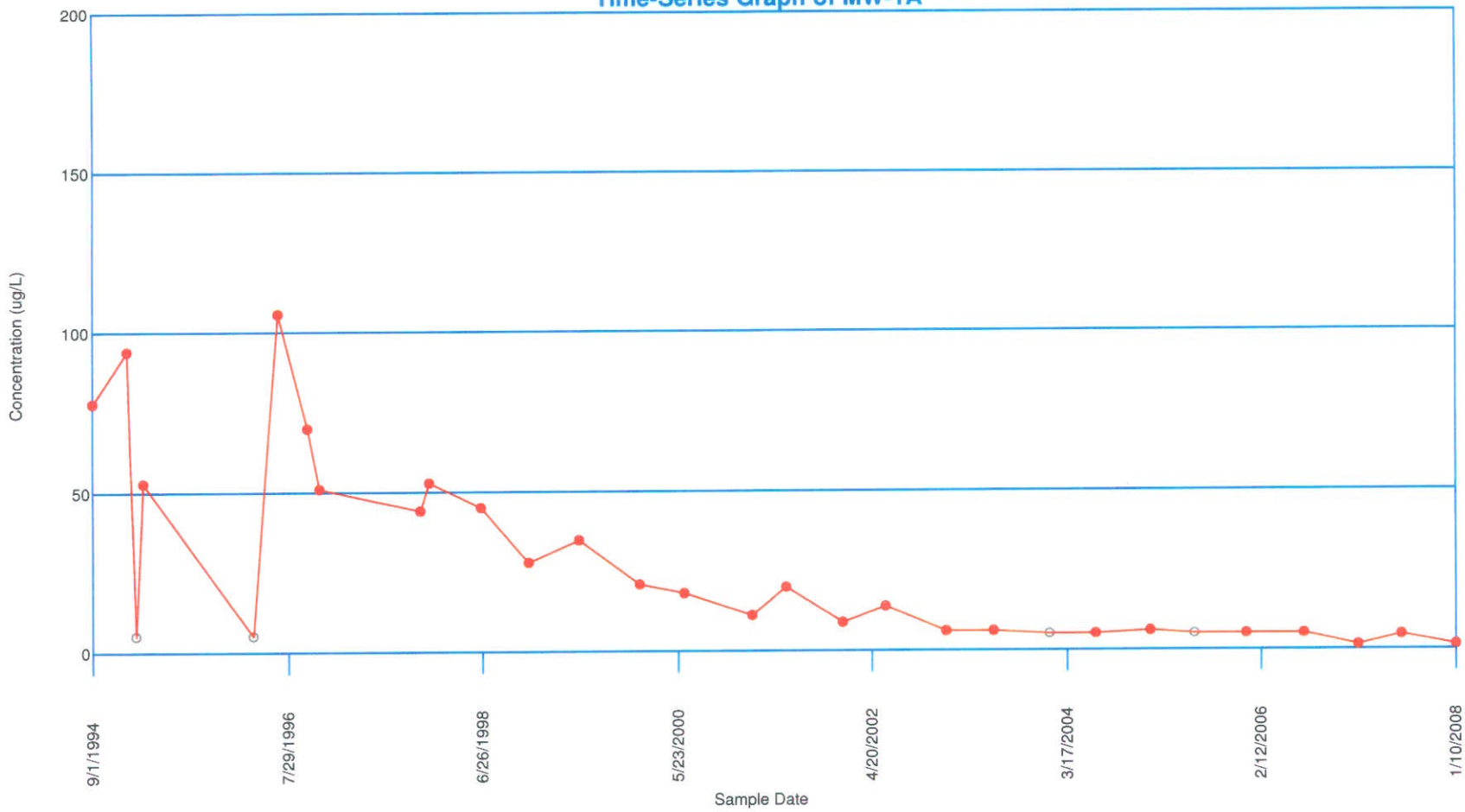
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

c-1,2-Dichloroethene

Time-Series Graph of MW-1A



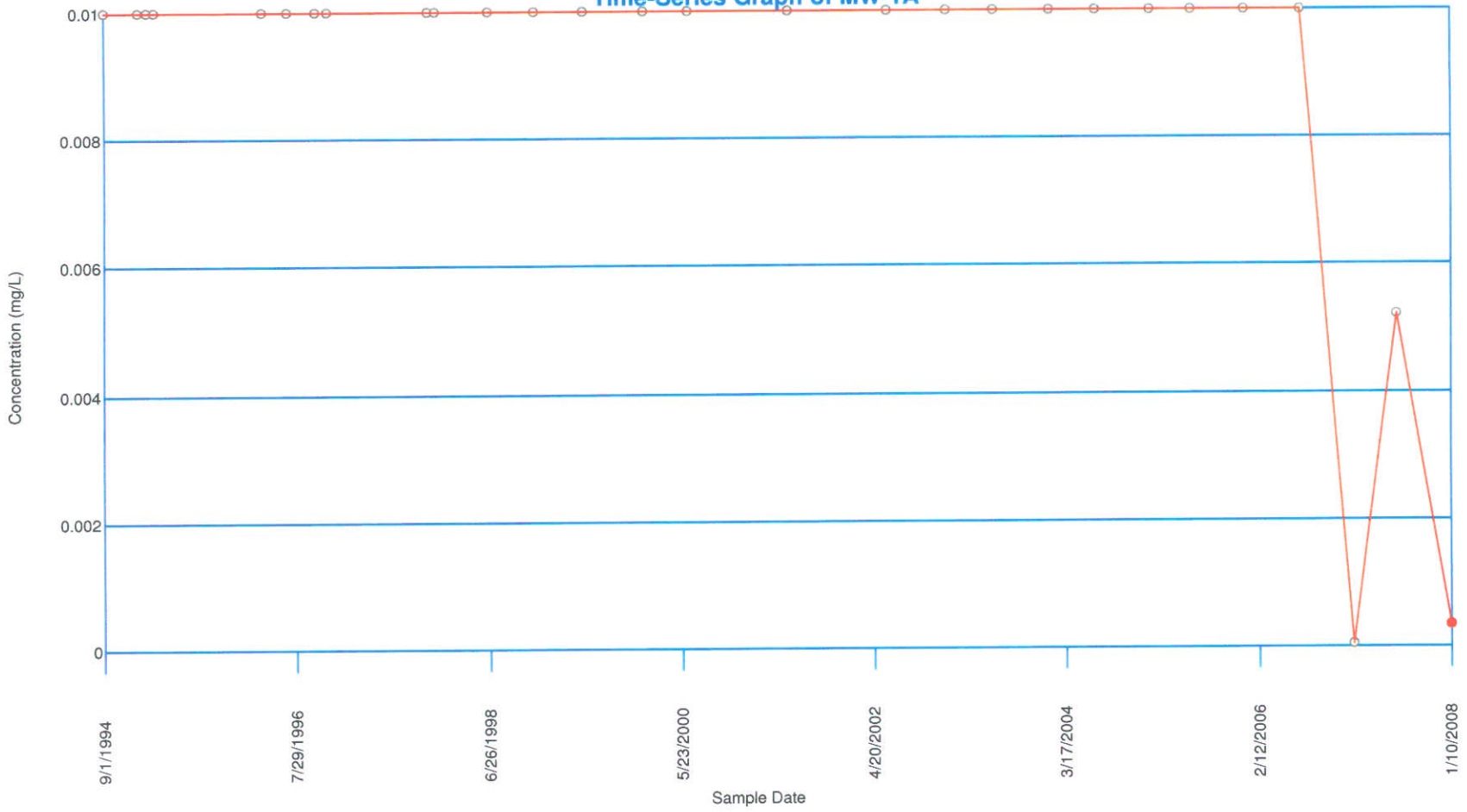
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Thallium

Time-Series Graph of MW-1A



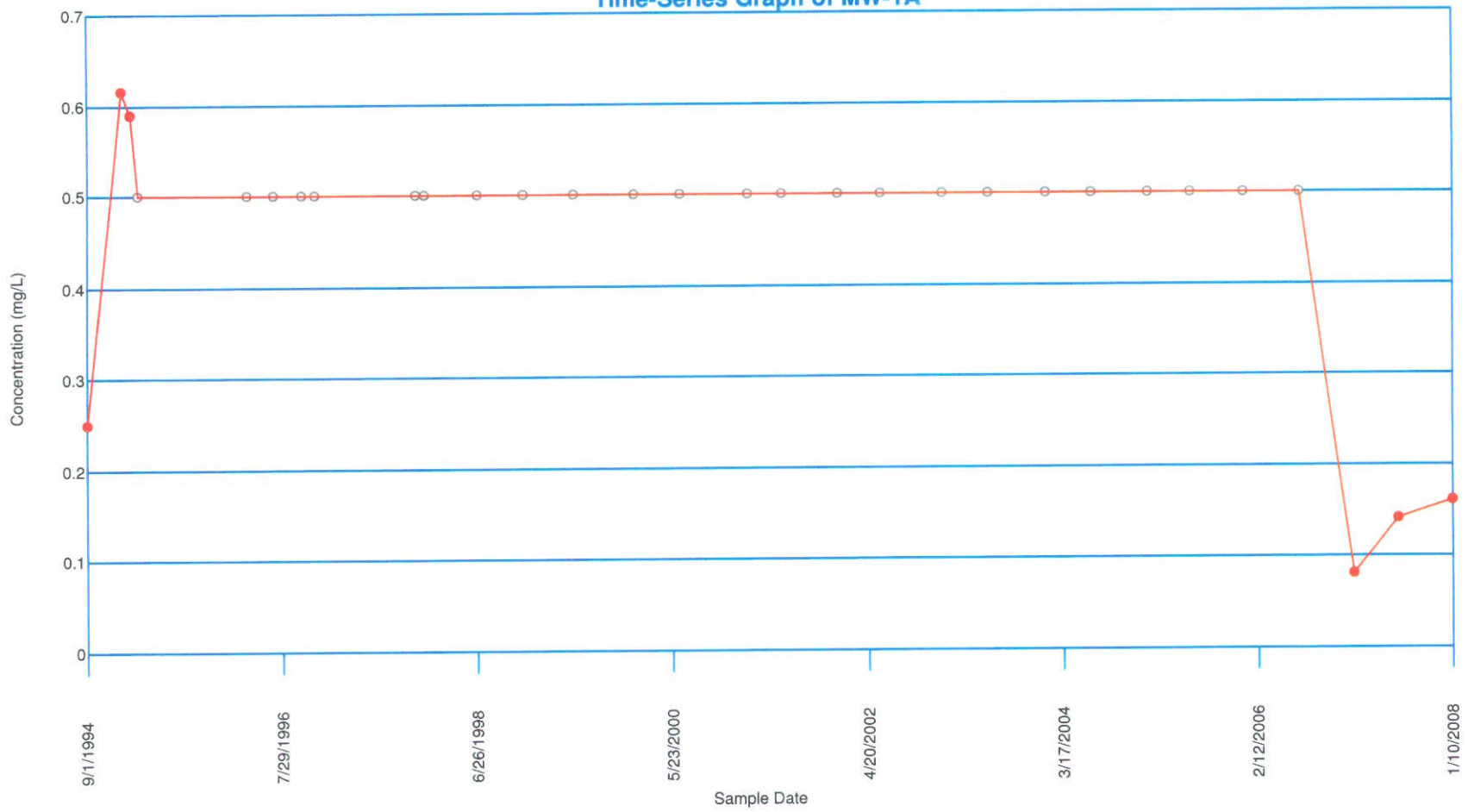
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Barium

Time-Series Graph of MW-1A



LEGEND:

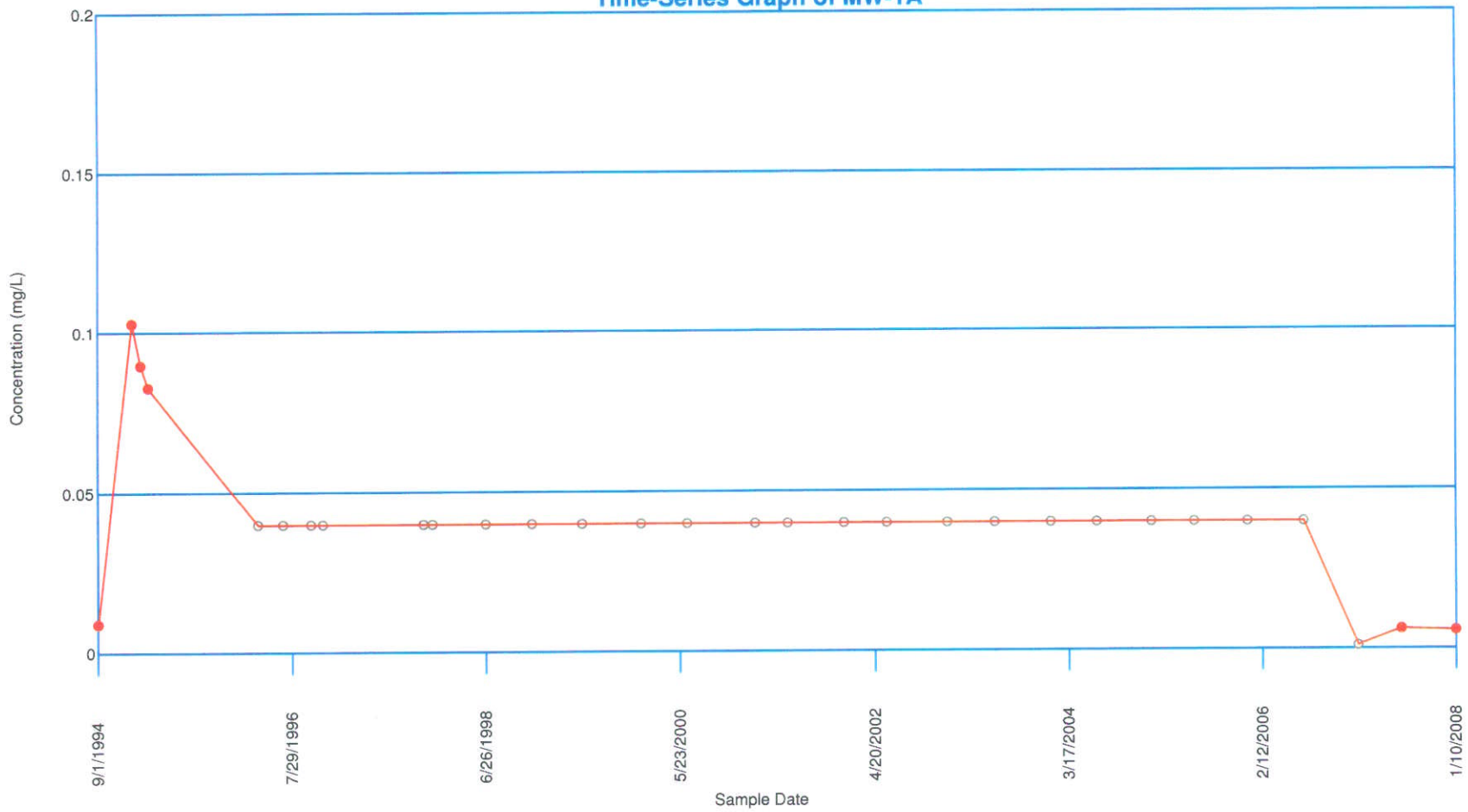
● = Constituent Detected Above Laboratory MDL

○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Vanadium

Time-Series Graph of MW-1A



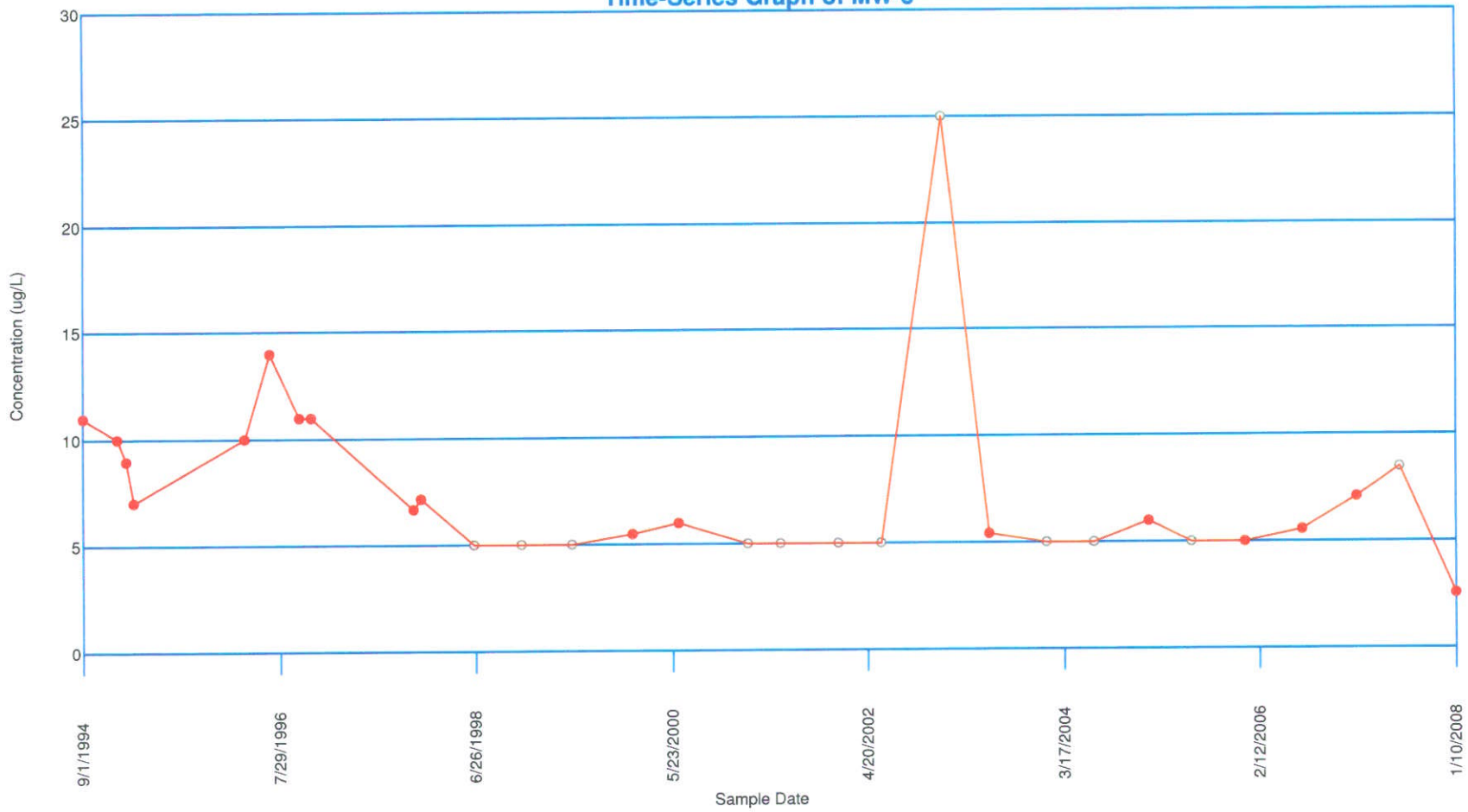
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Benzene

Time-Series Graph of MW-5



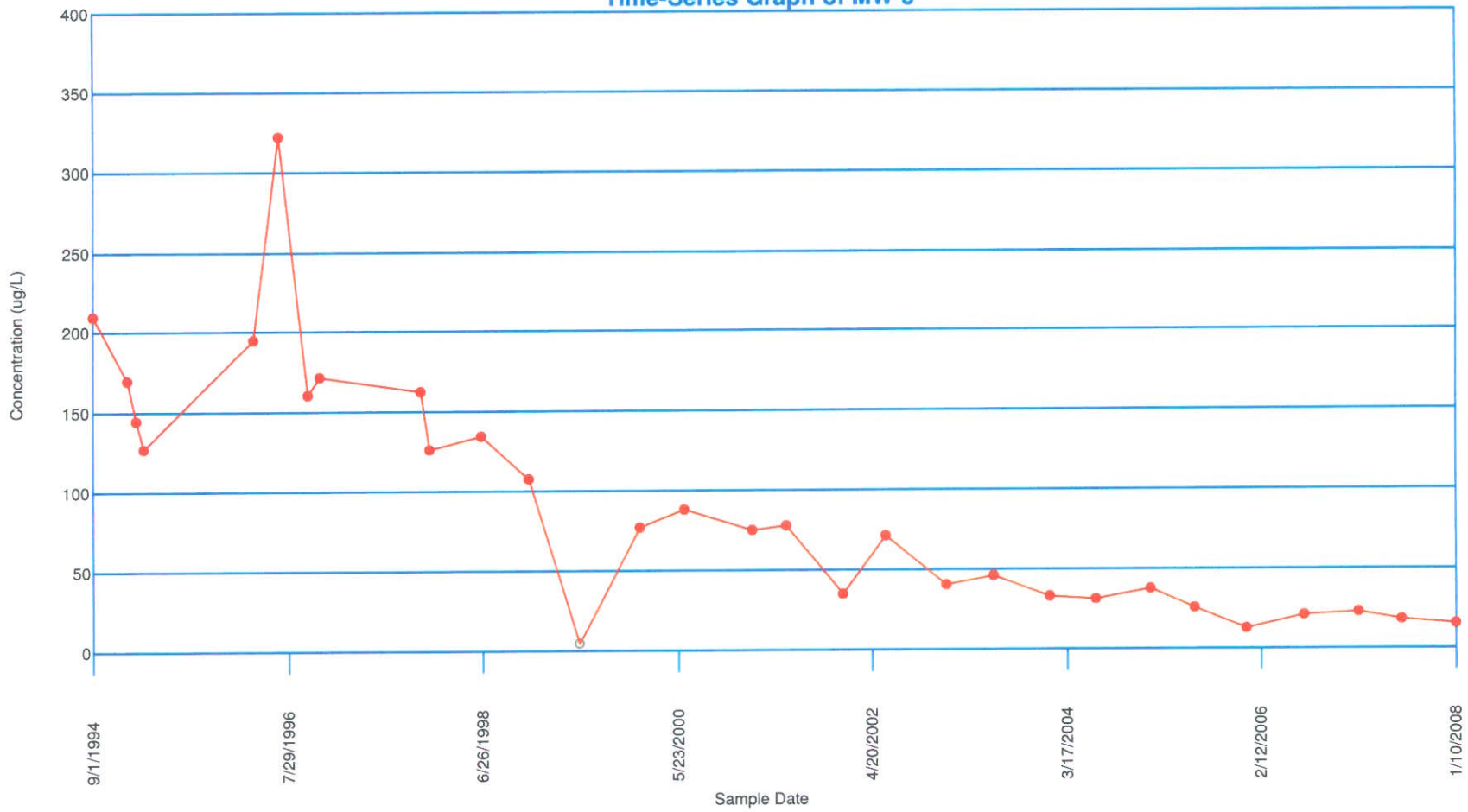
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

1,1-Dichloroethane

Time-Series Graph of MW-5



LEGEND:

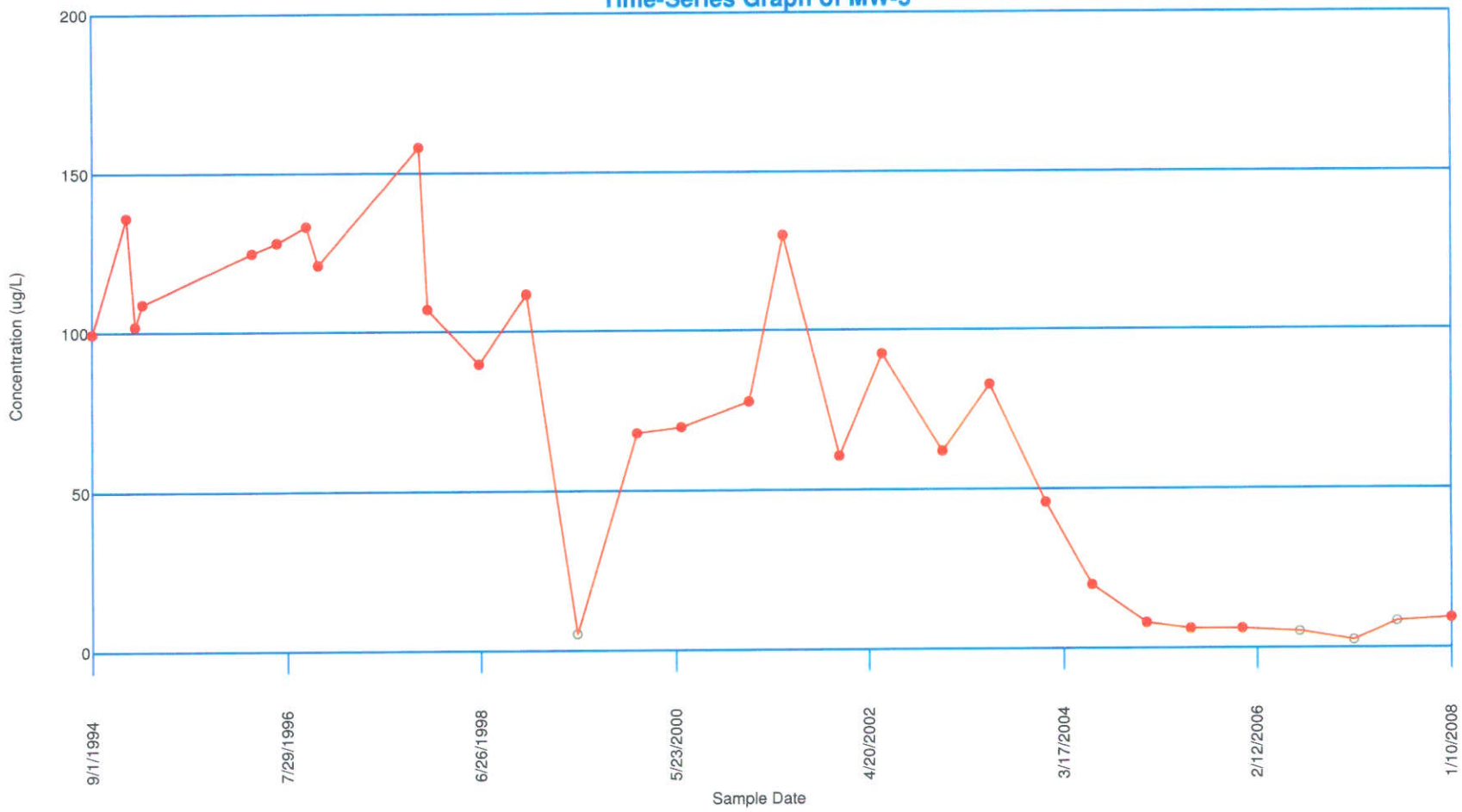
● = Constituent Detected Above Laboratory MDL

○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Trichloroethene

Time-Series Graph of MW-5



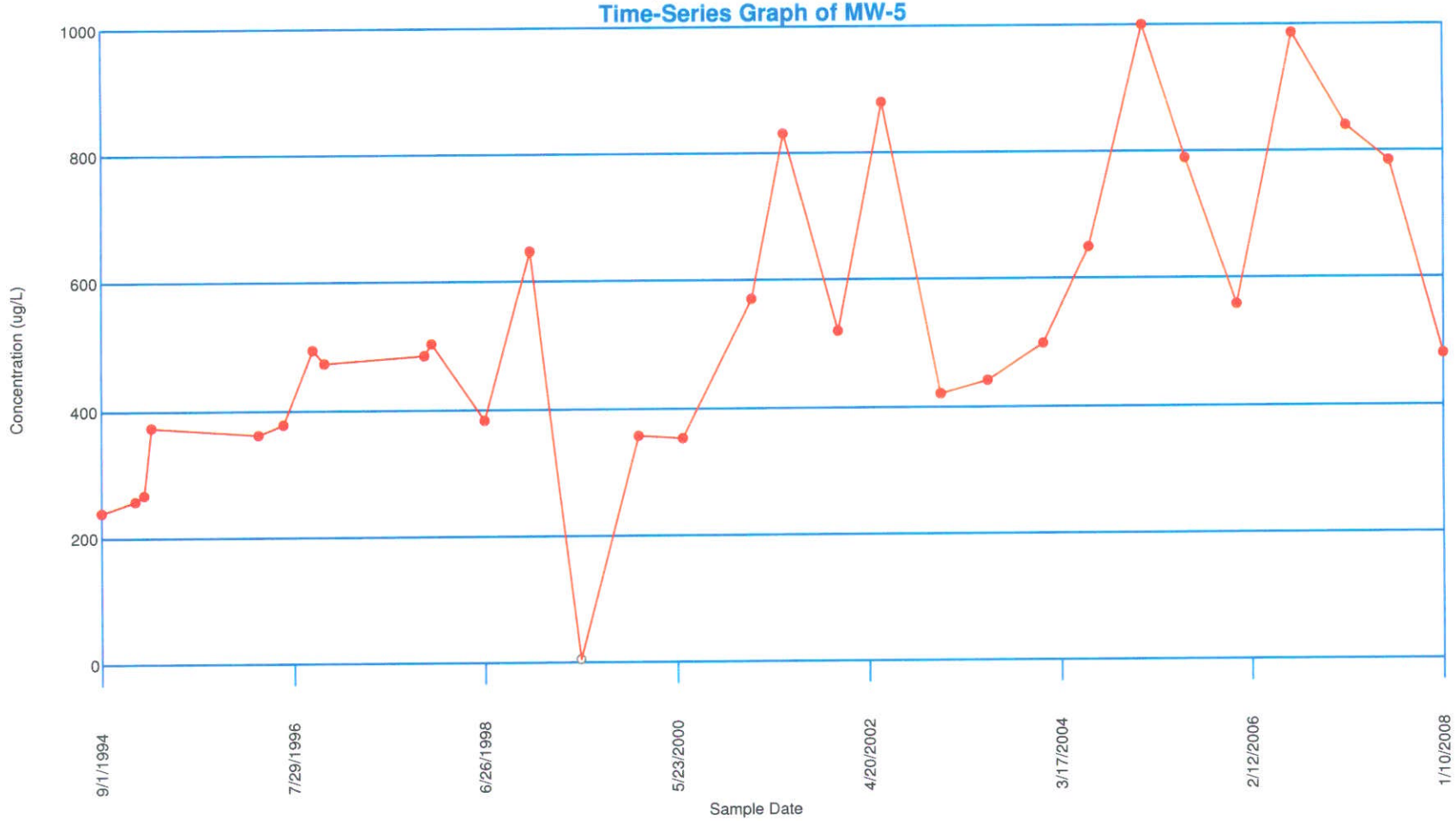
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

c-1,2-Dichloroethene

Time-Series Graph of MW-5



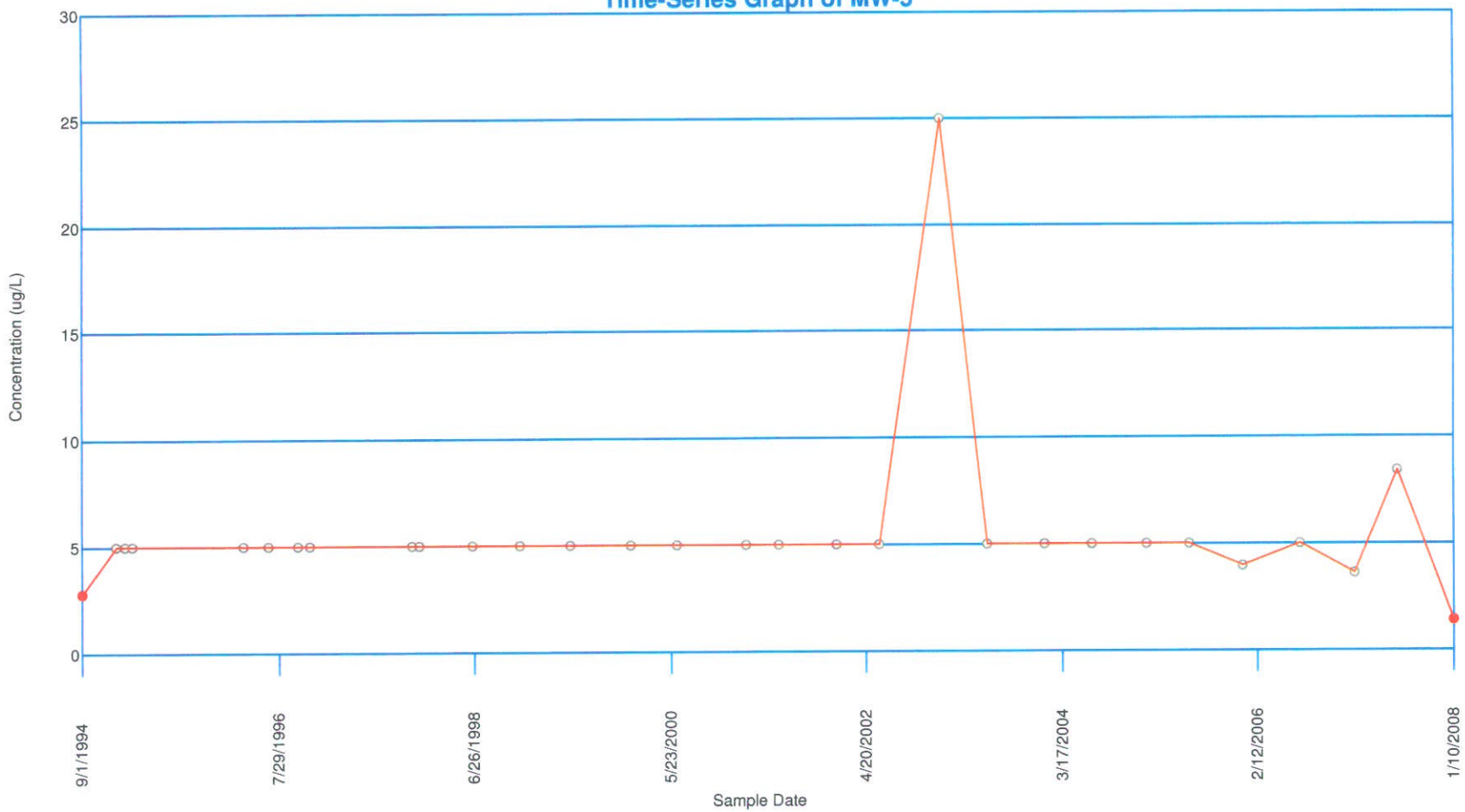
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

1,2-Dichloroethane

Time-Series Graph of MW-5



LEGEND:

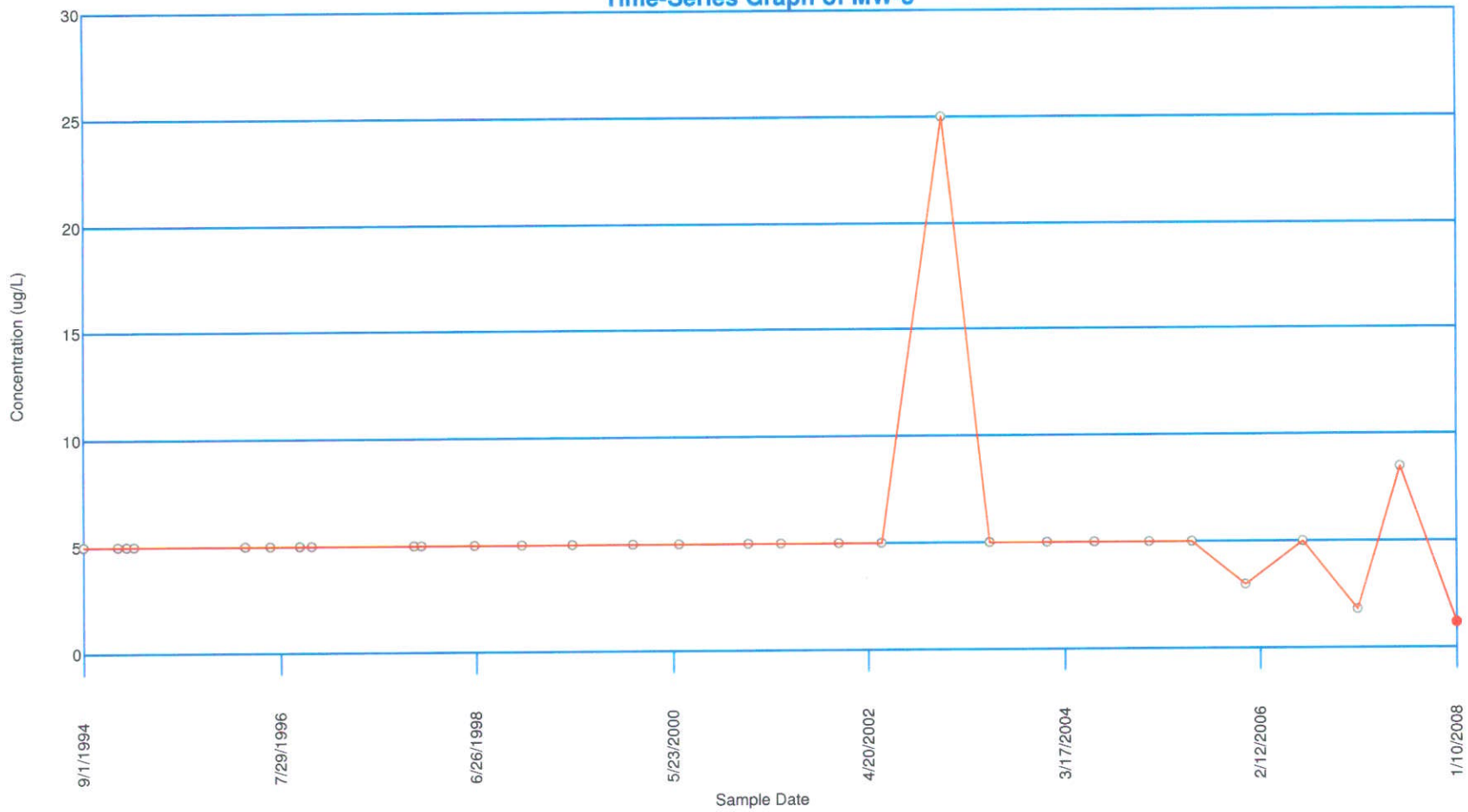
● = Constituent Detected Above Laboratory MDL

○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

1,2-Dichloropropane

Time-Series Graph of MW-5



LEGEND:

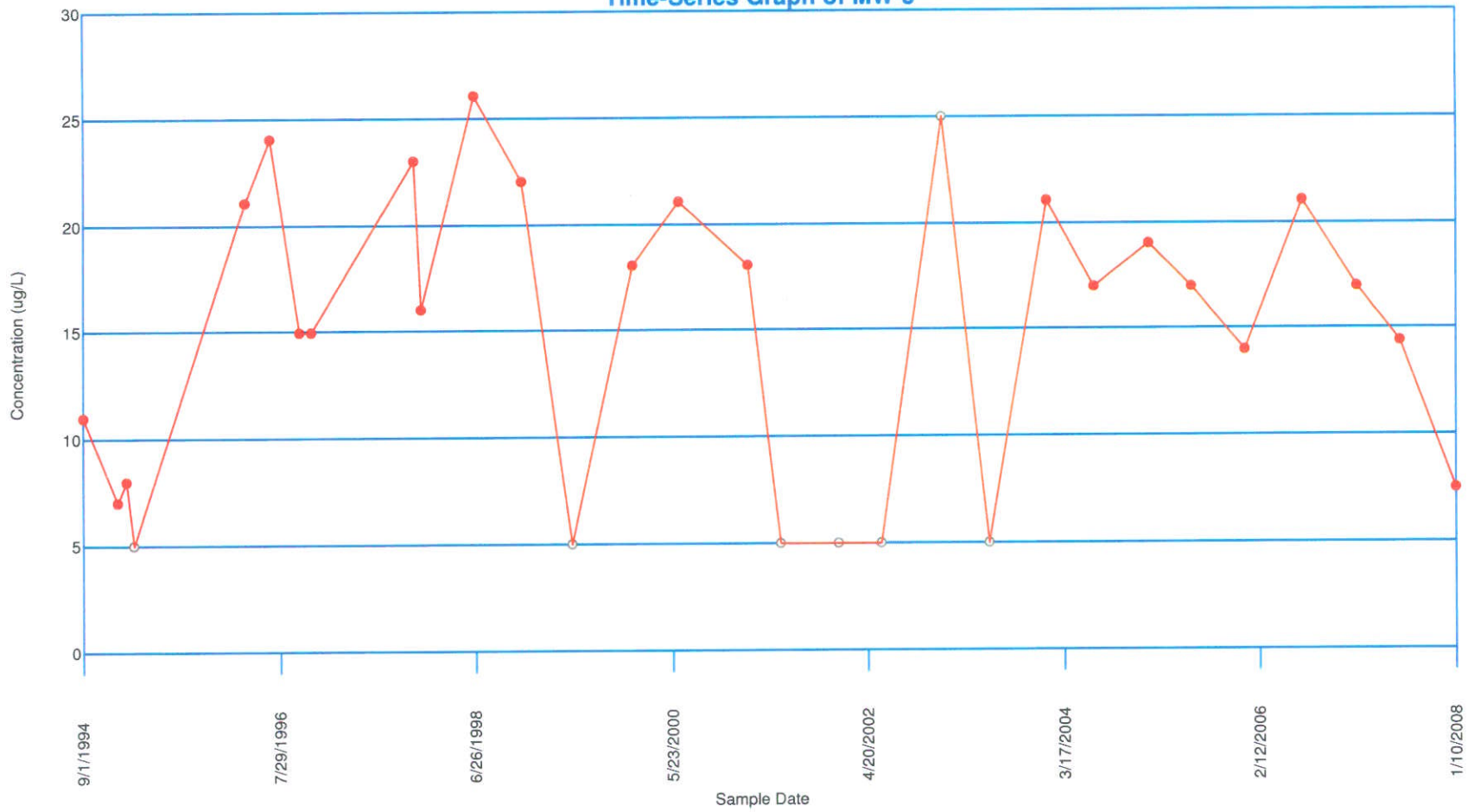
● = Constituent Detected Above Laboratory MDL

○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Chlorobenzene

Time-Series Graph of MW-5



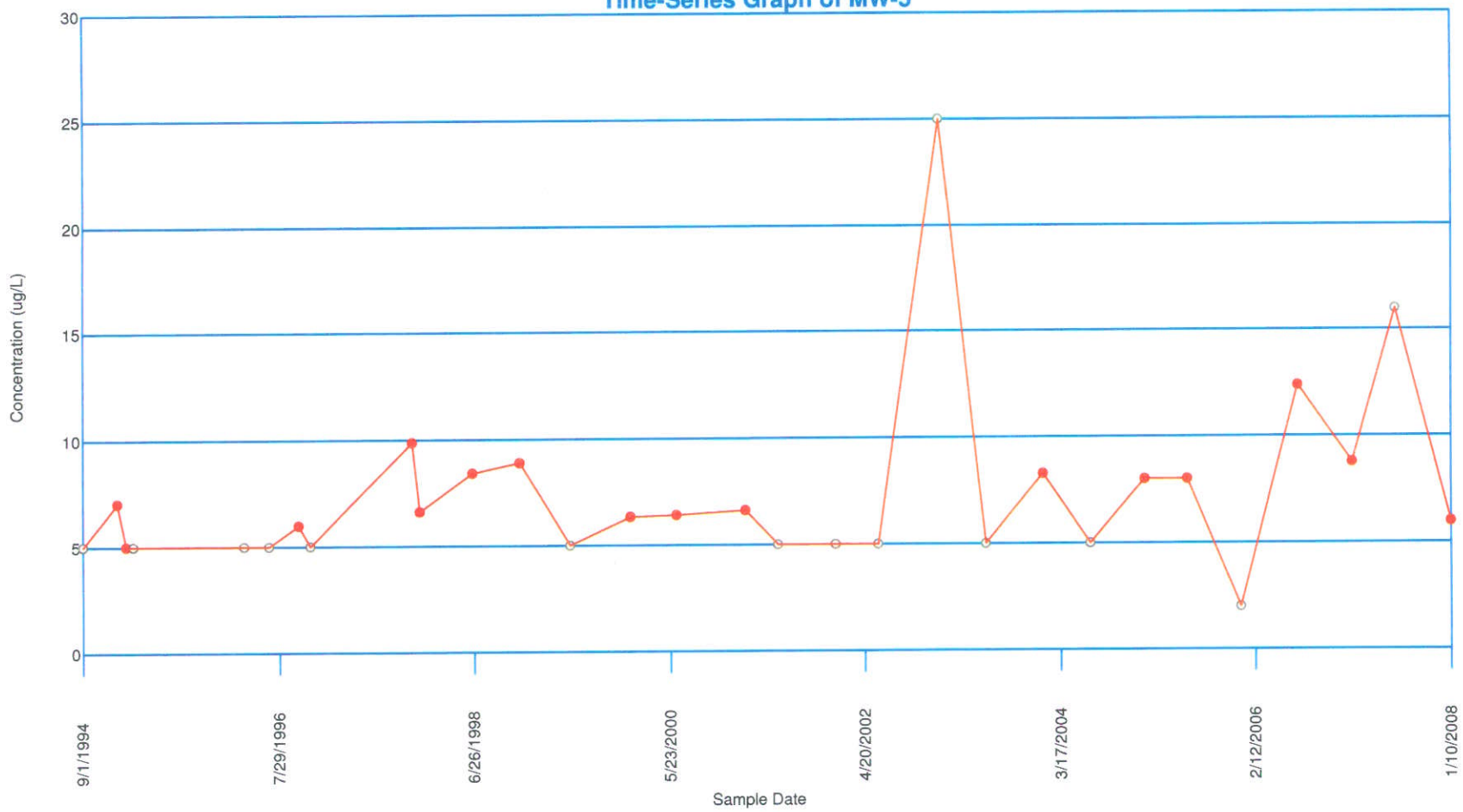
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

1,4-Dichlorobenzene

Time-Series Graph of MW-5



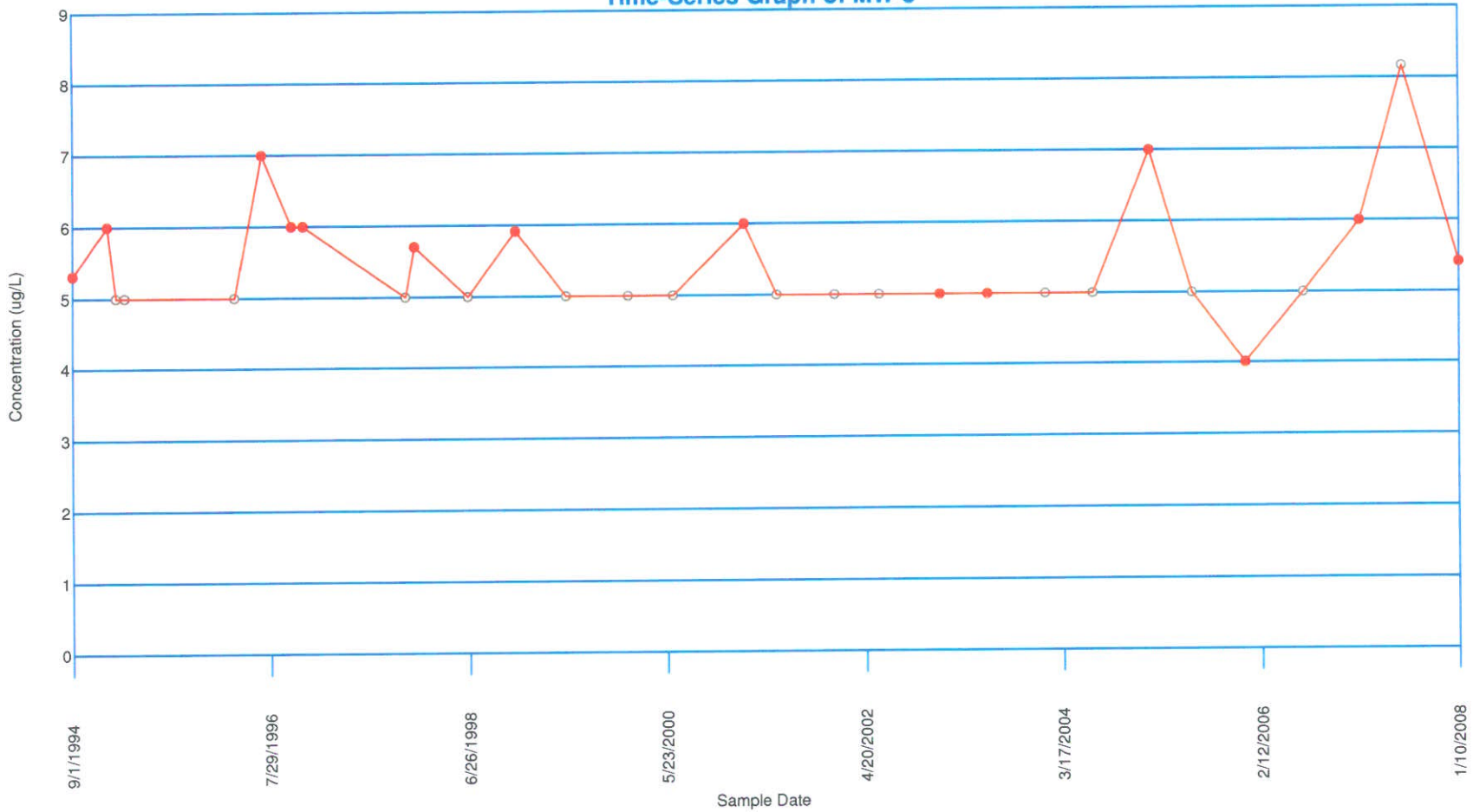
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

t-1,2-Dichloroethene

Time-Series Graph of MW-5



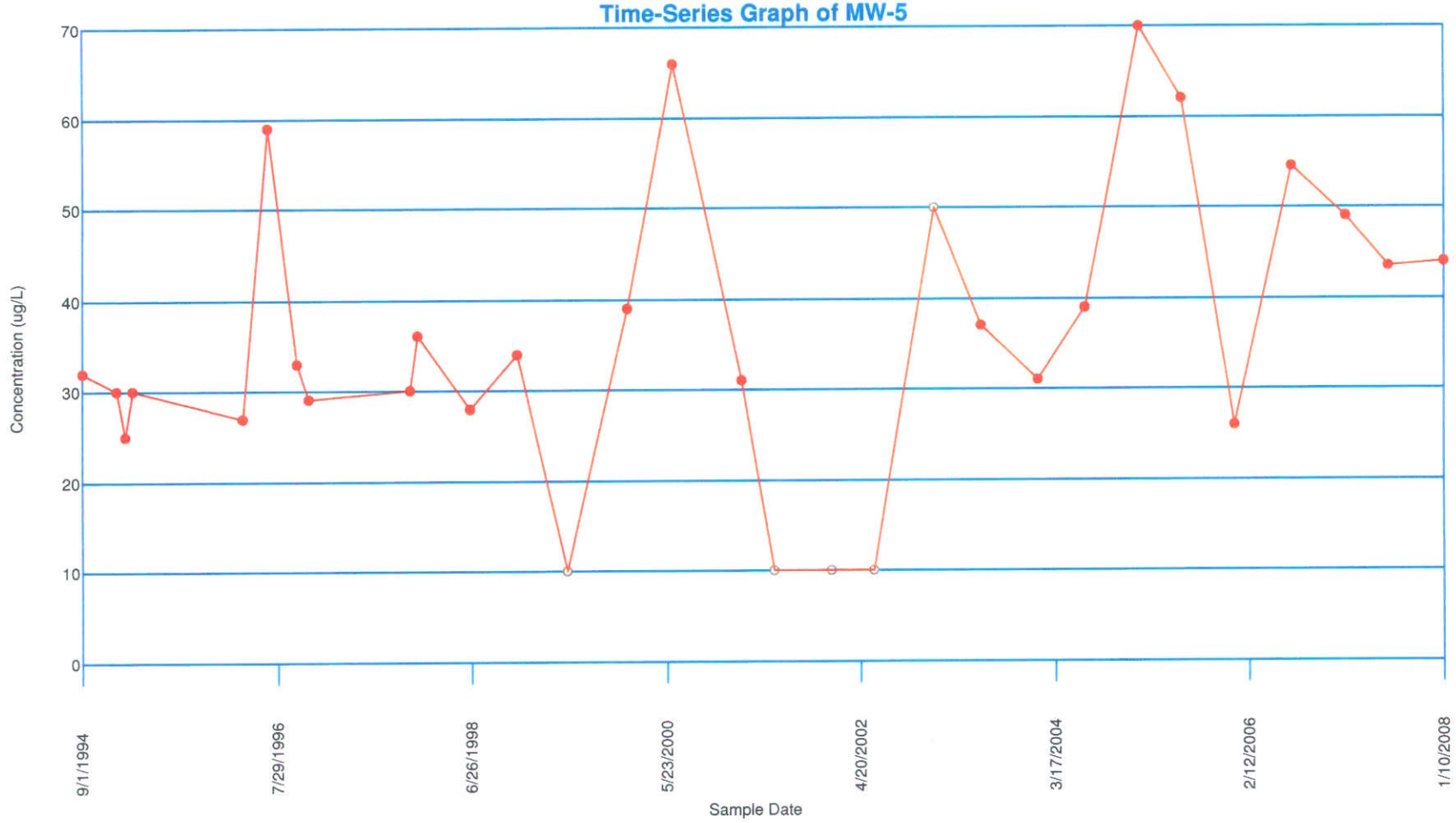
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Vinyl Chloride

Time-Series Graph of MW-5



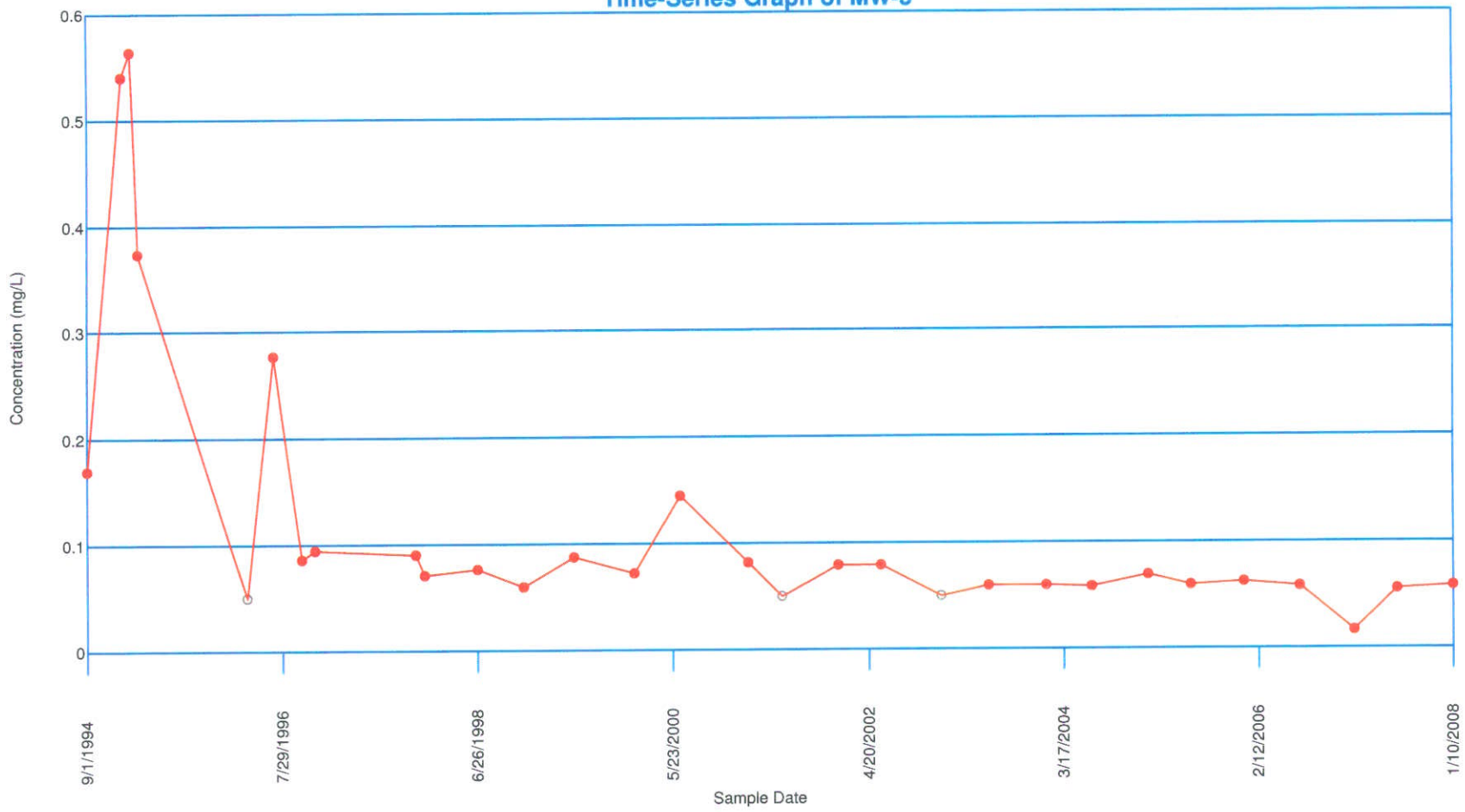
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Zinc

Time-Series Graph of MW-5



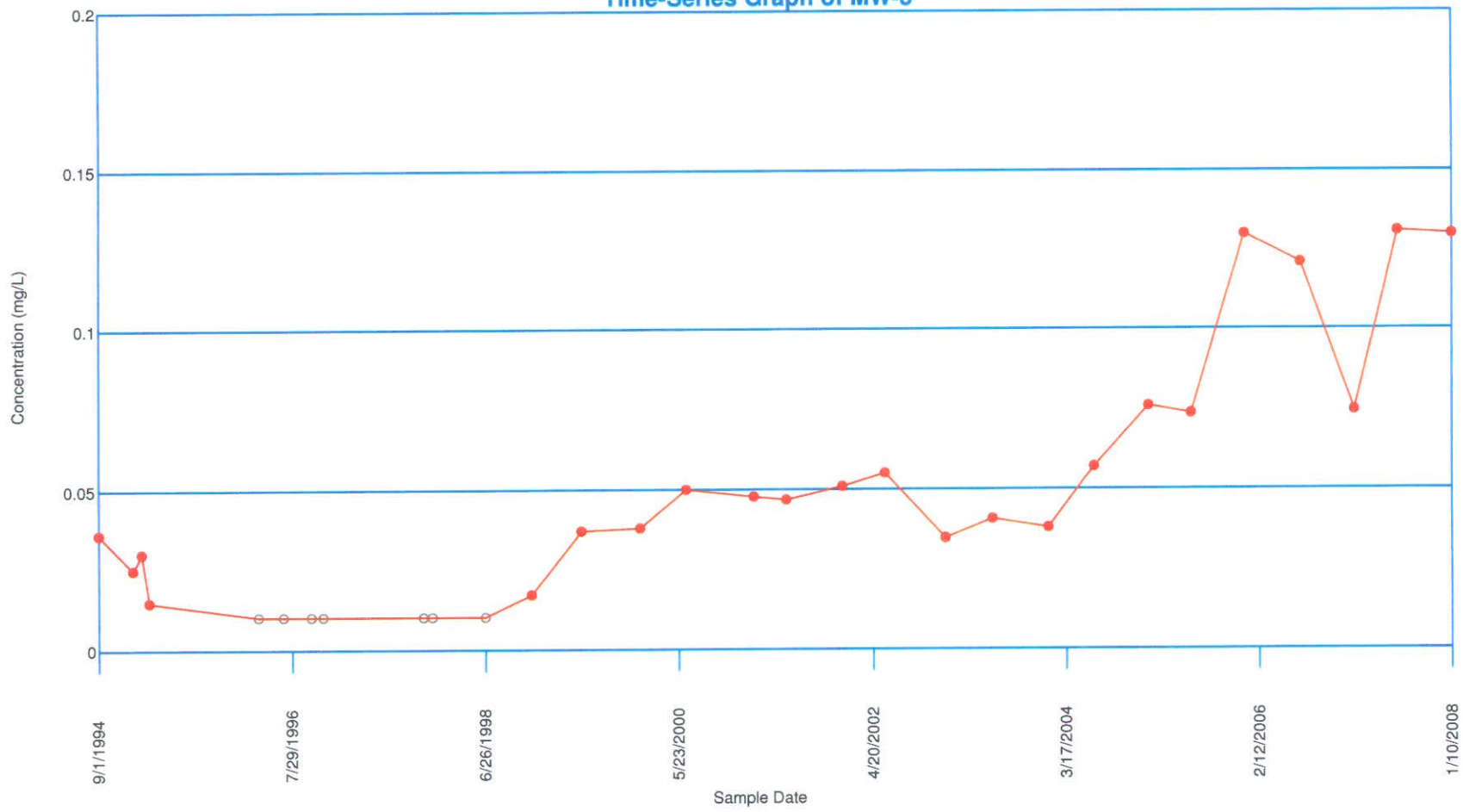
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Cobalt

Time-Series Graph of MW-5



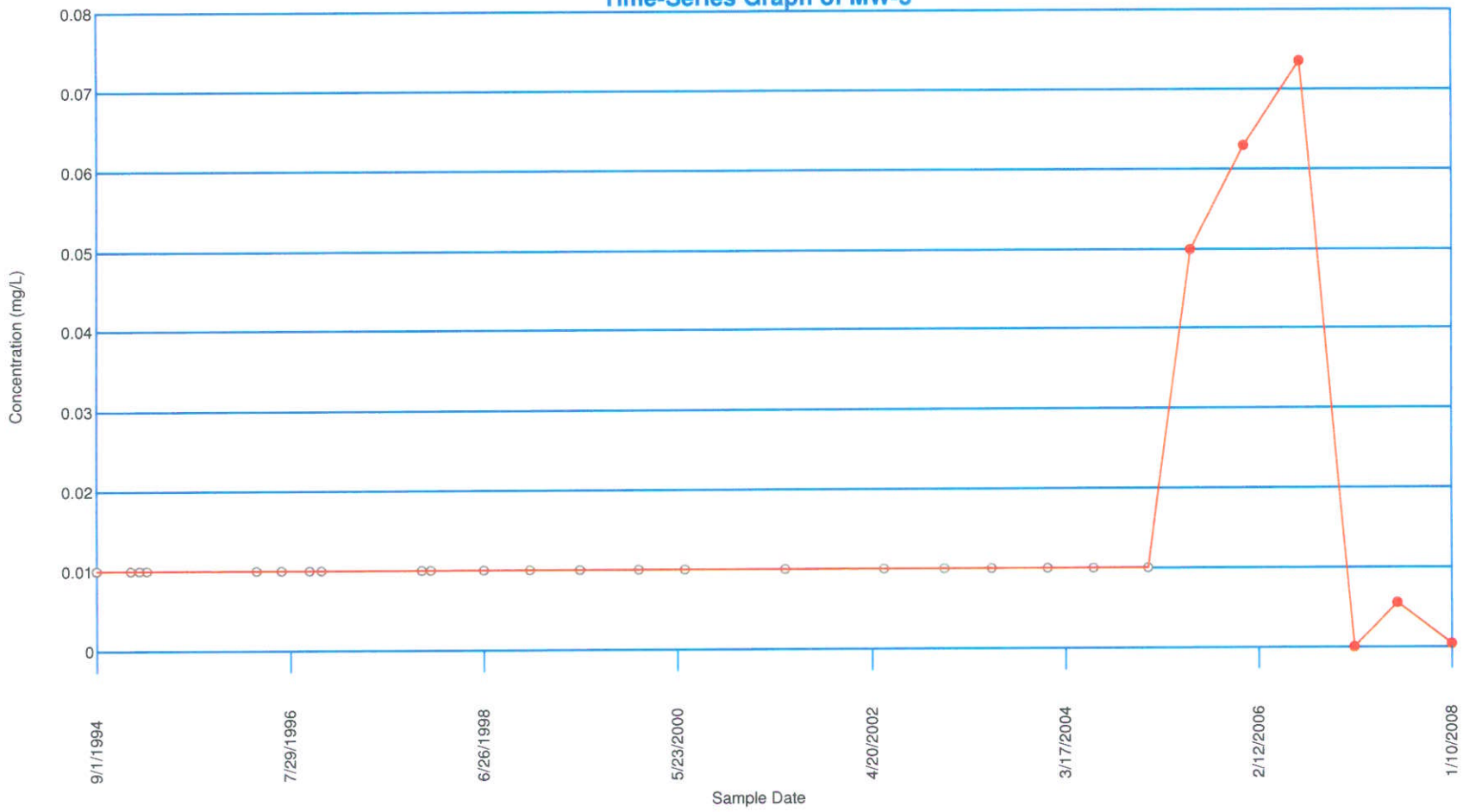
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Thallium

Time-Series Graph of MW-5



LEGEND:

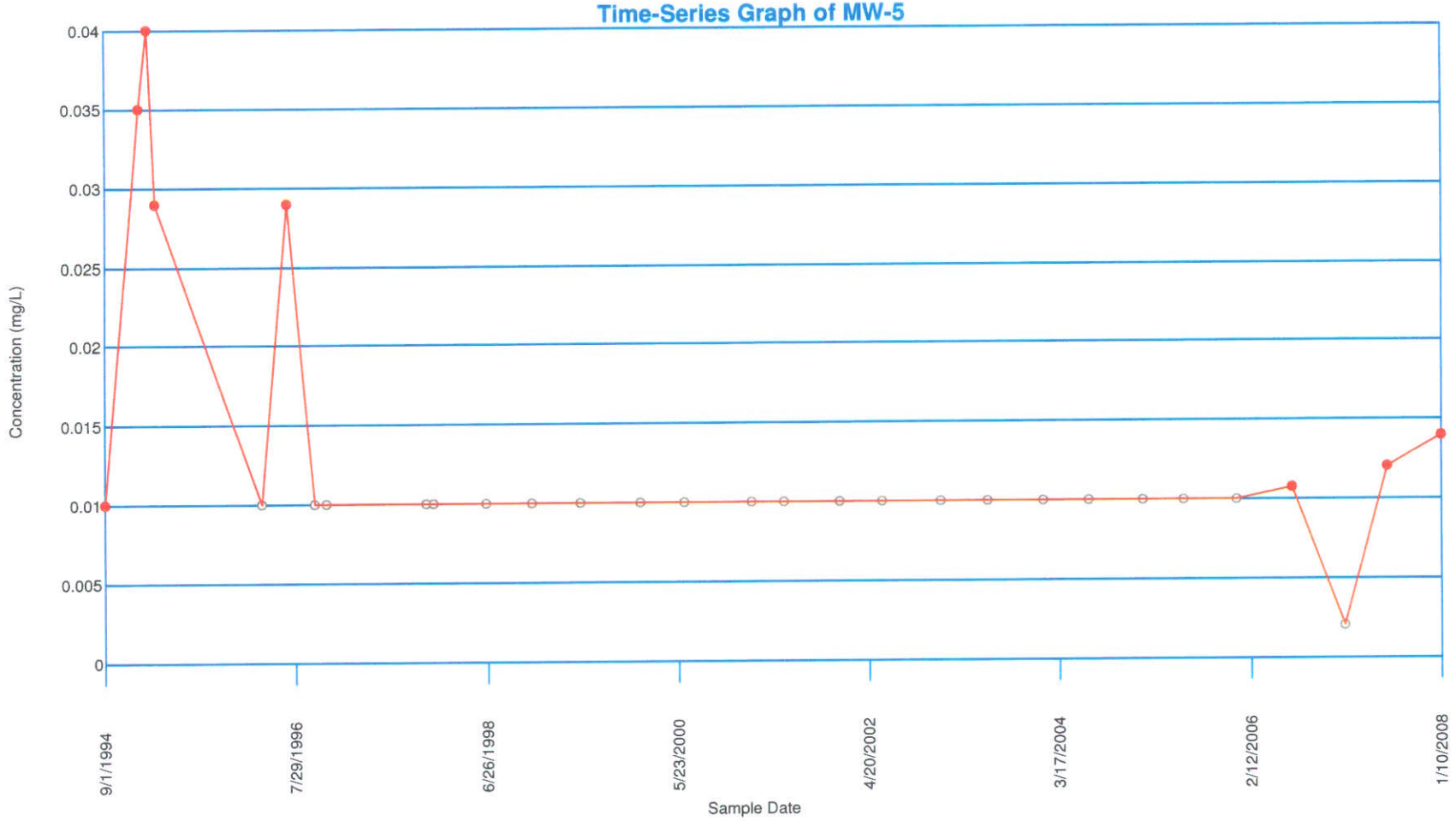
● = Constituent Detected Above Laboratory MDL

○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Lead

Time-Series Graph of MW-5



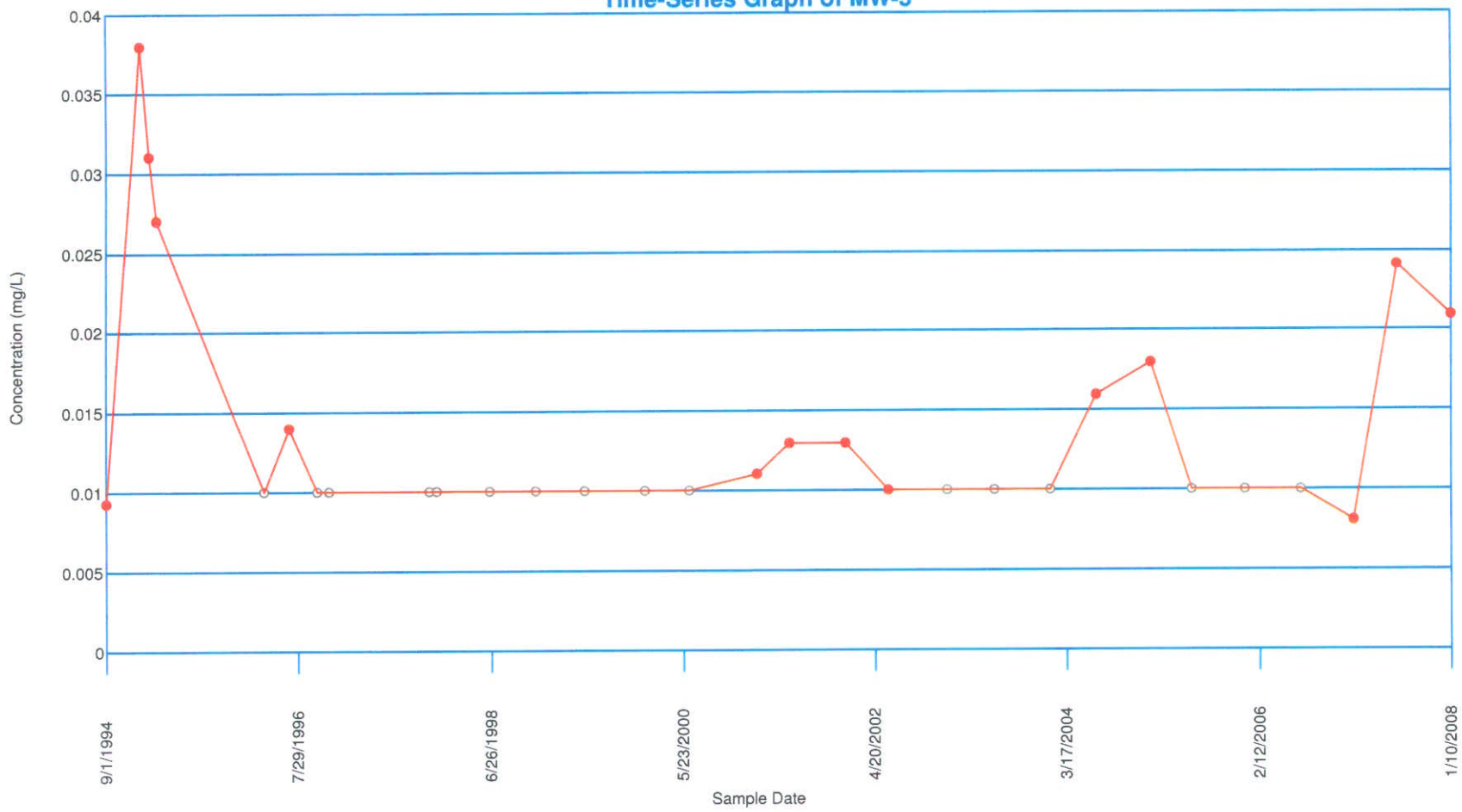
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Arsenic

Time-Series Graph of MW-5



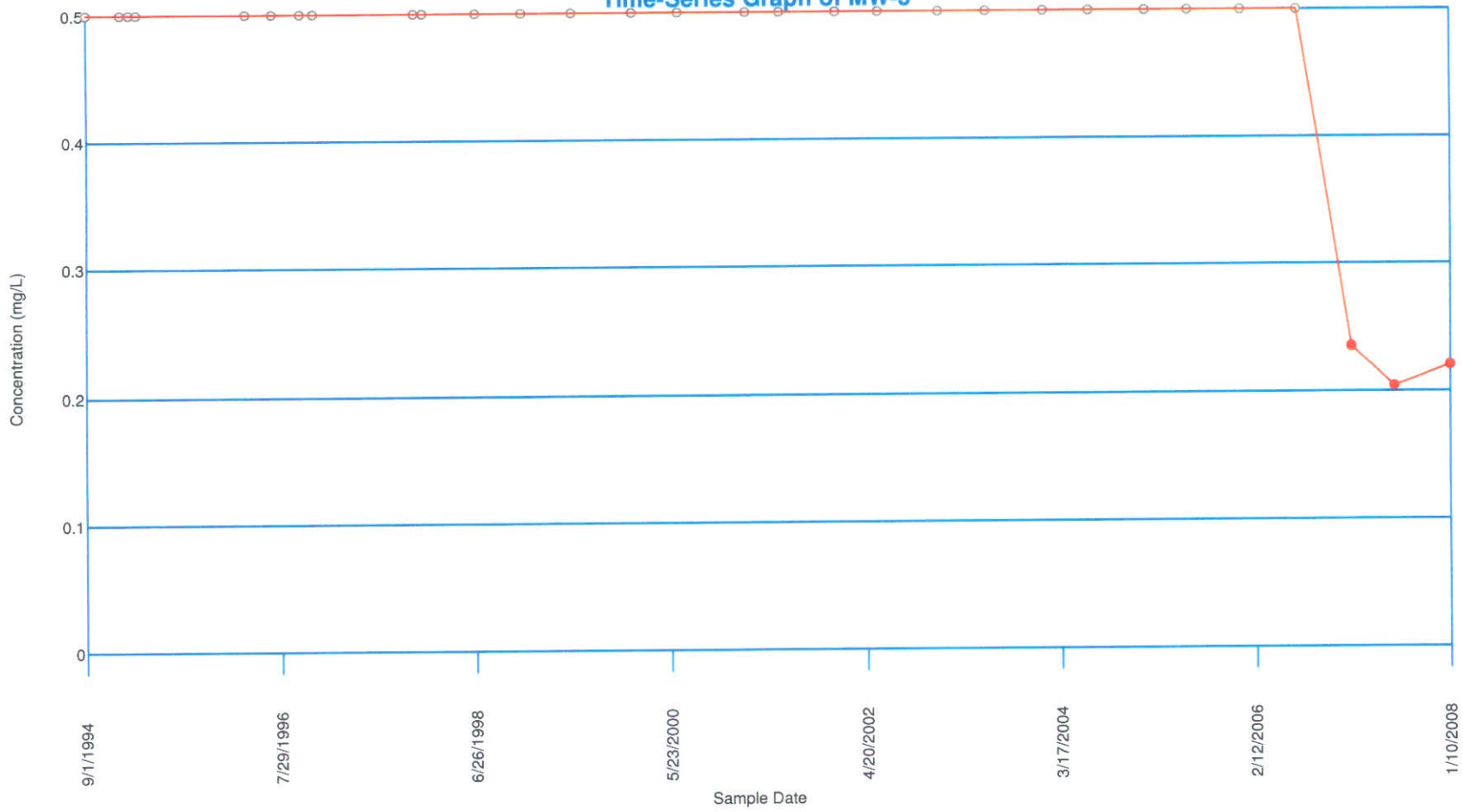
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Barium

Time-Series Graph of MW-5



LEGEND:

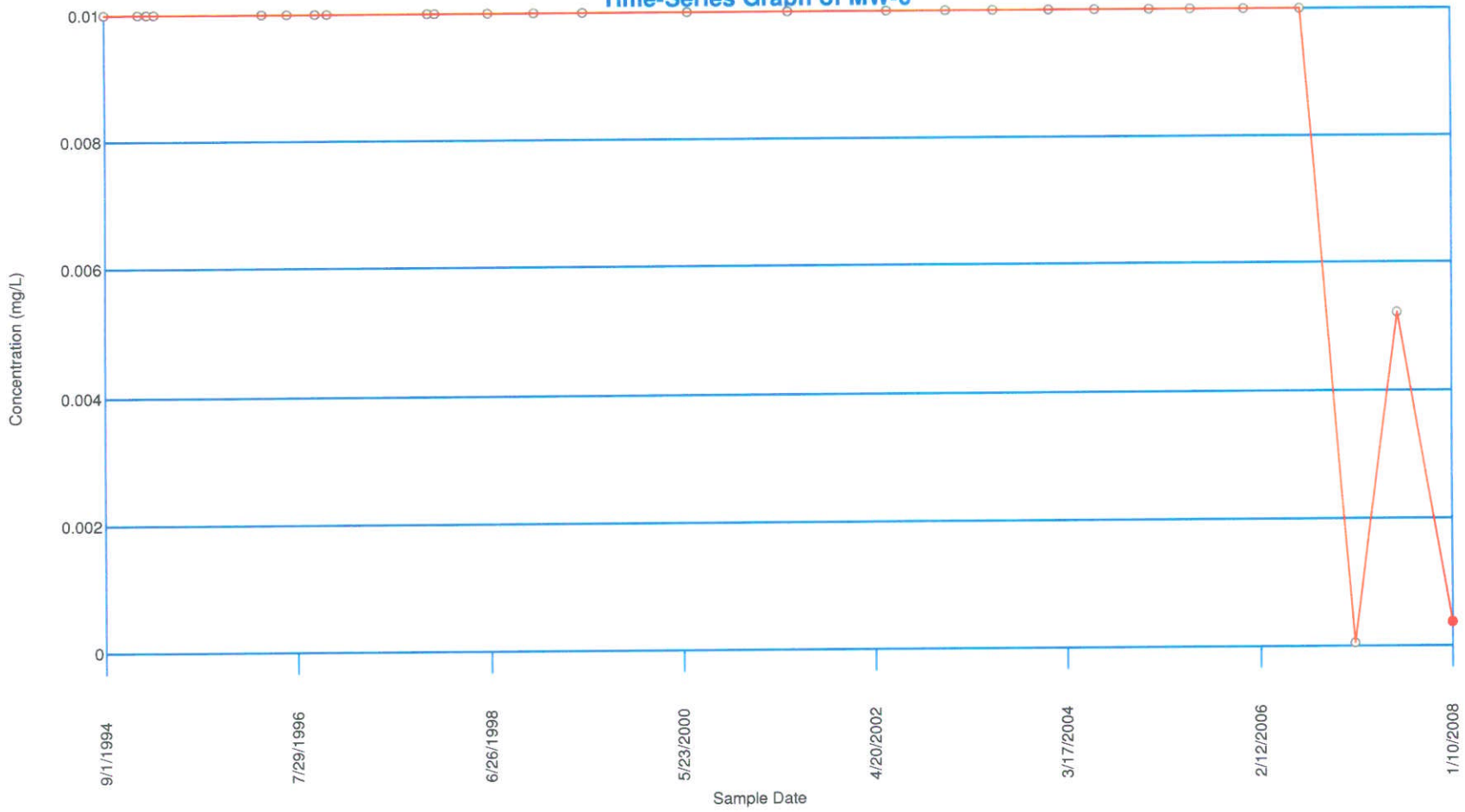
● = Constituent Detected Above Laboratory MDL

○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Thallium

Time-Series Graph of MW-6



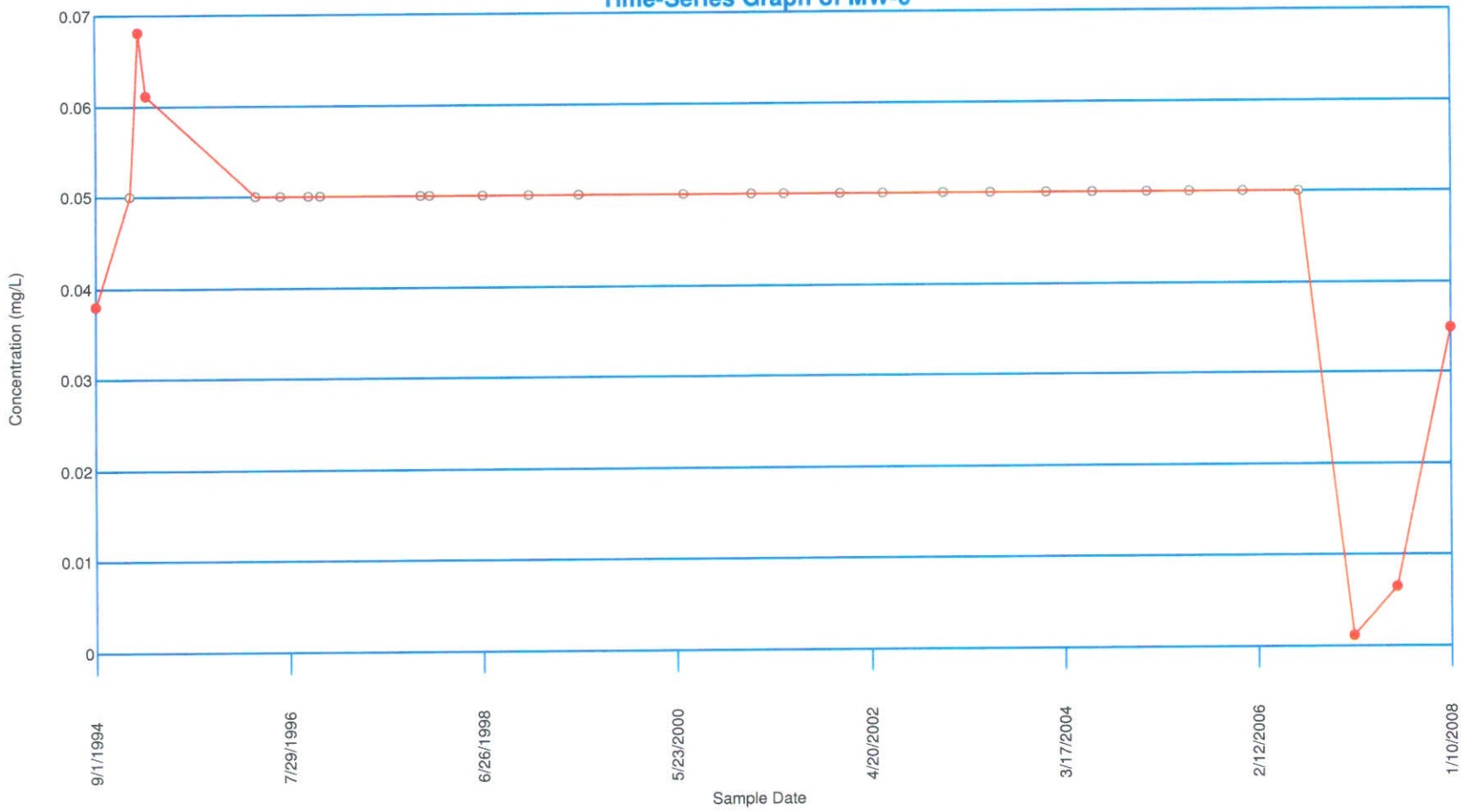
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Zinc

Time-Series Graph of MW-6



LEGEND:

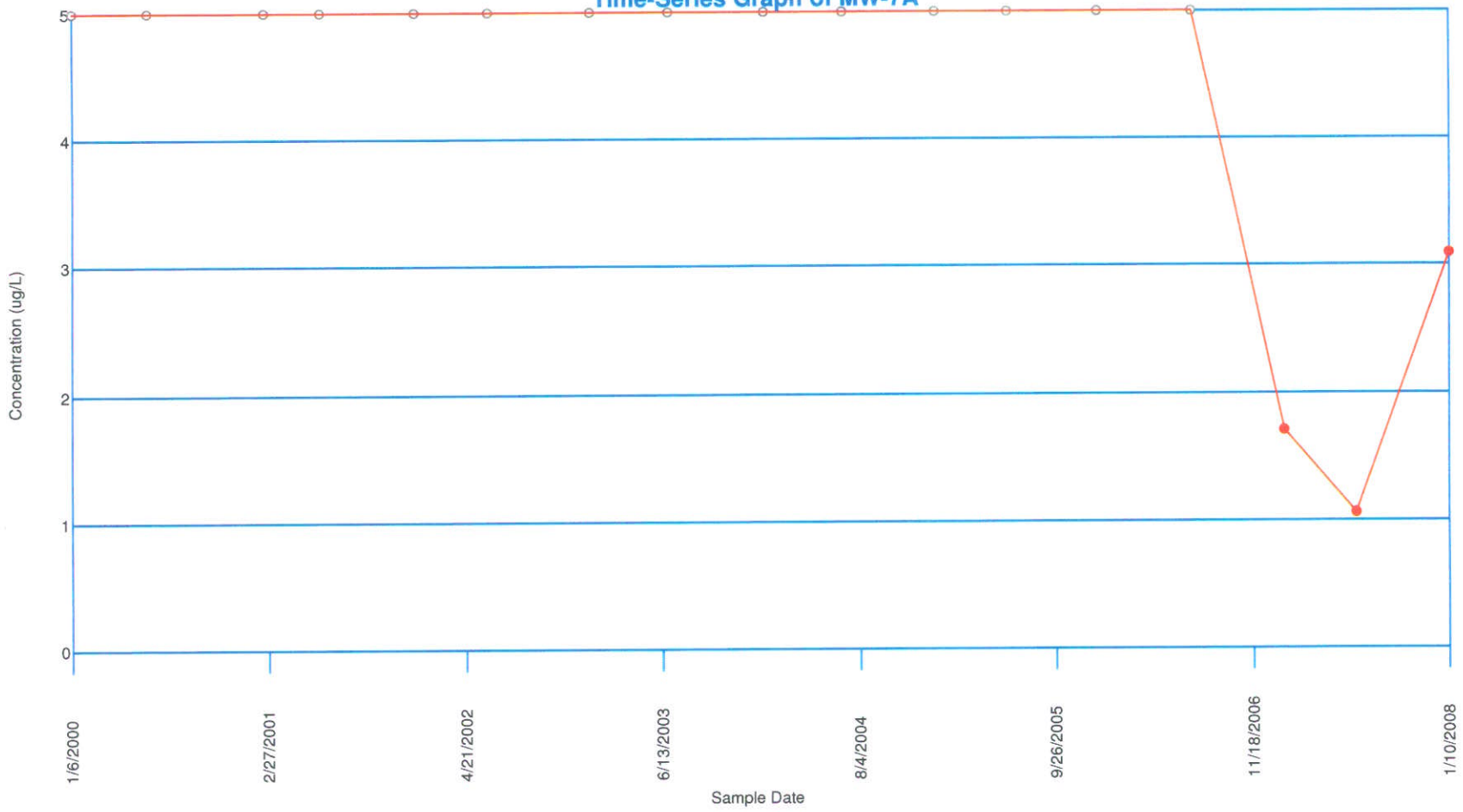
● = Constituent Detected Above Laboratory MDL

○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Benzene

Time-Series Graph of MW-7A



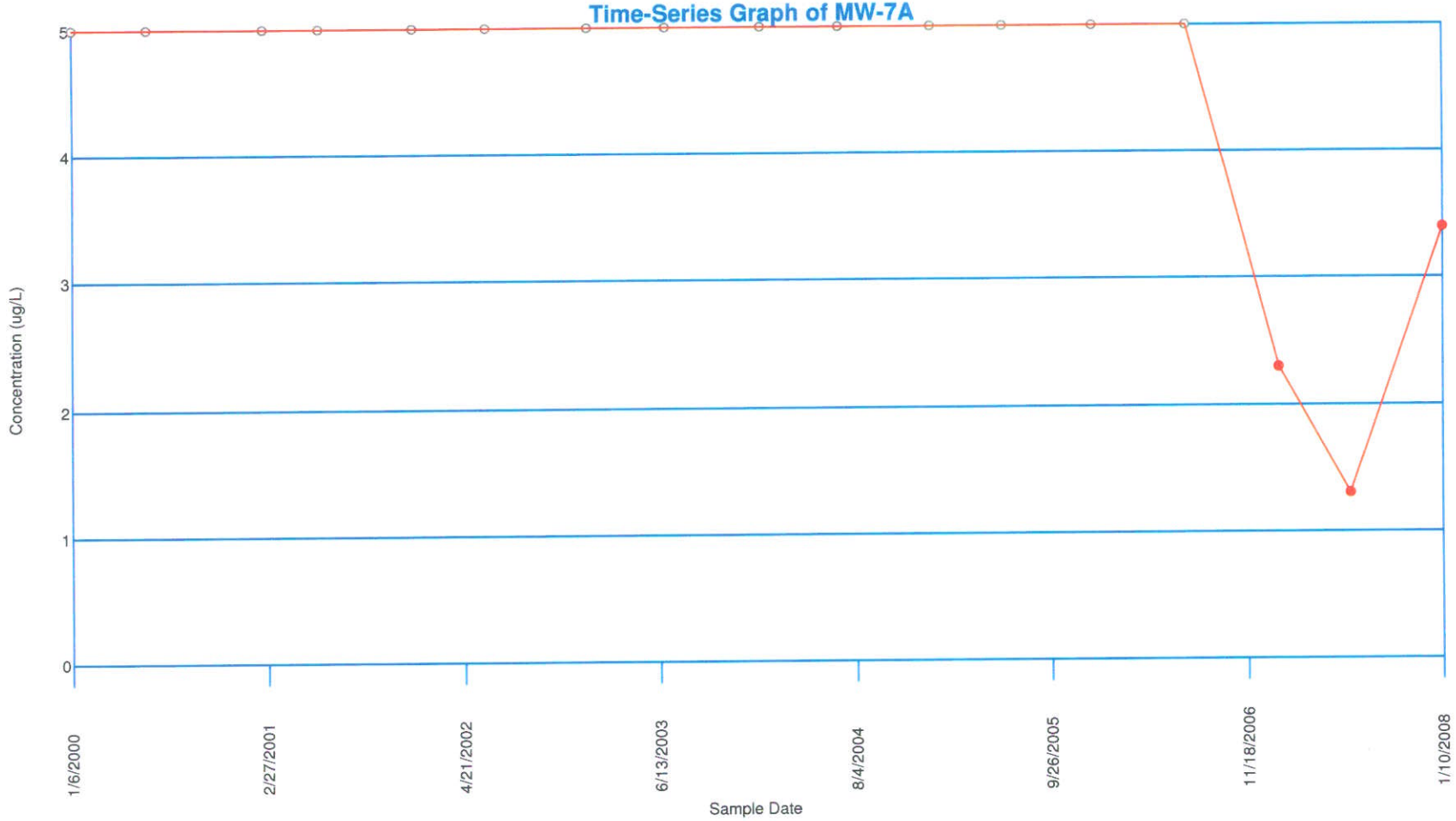
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Chlorobenzene

Time-Series Graph of MW-7A



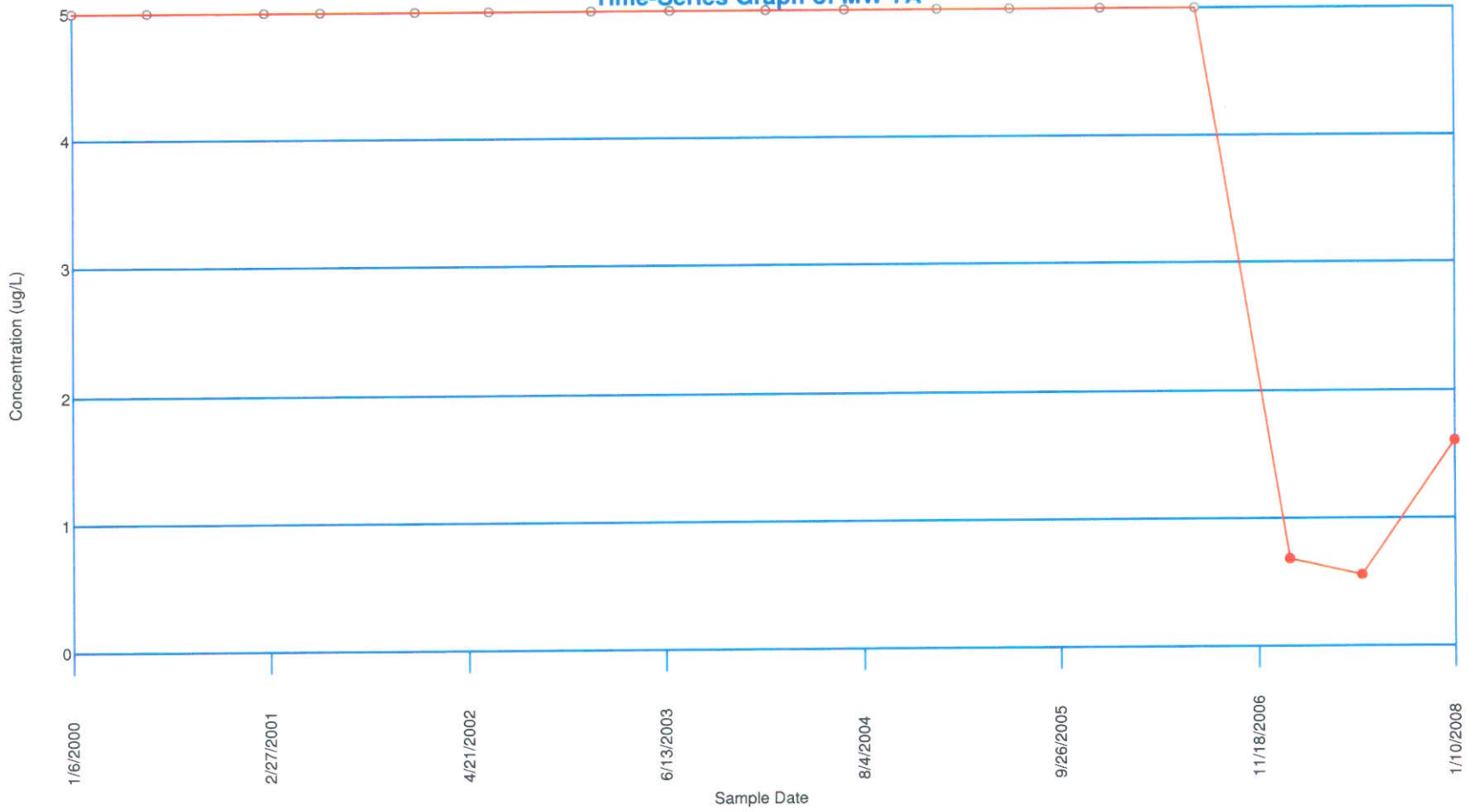
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

1,4-Dichlorobenzene

Time-Series Graph of MW-7A



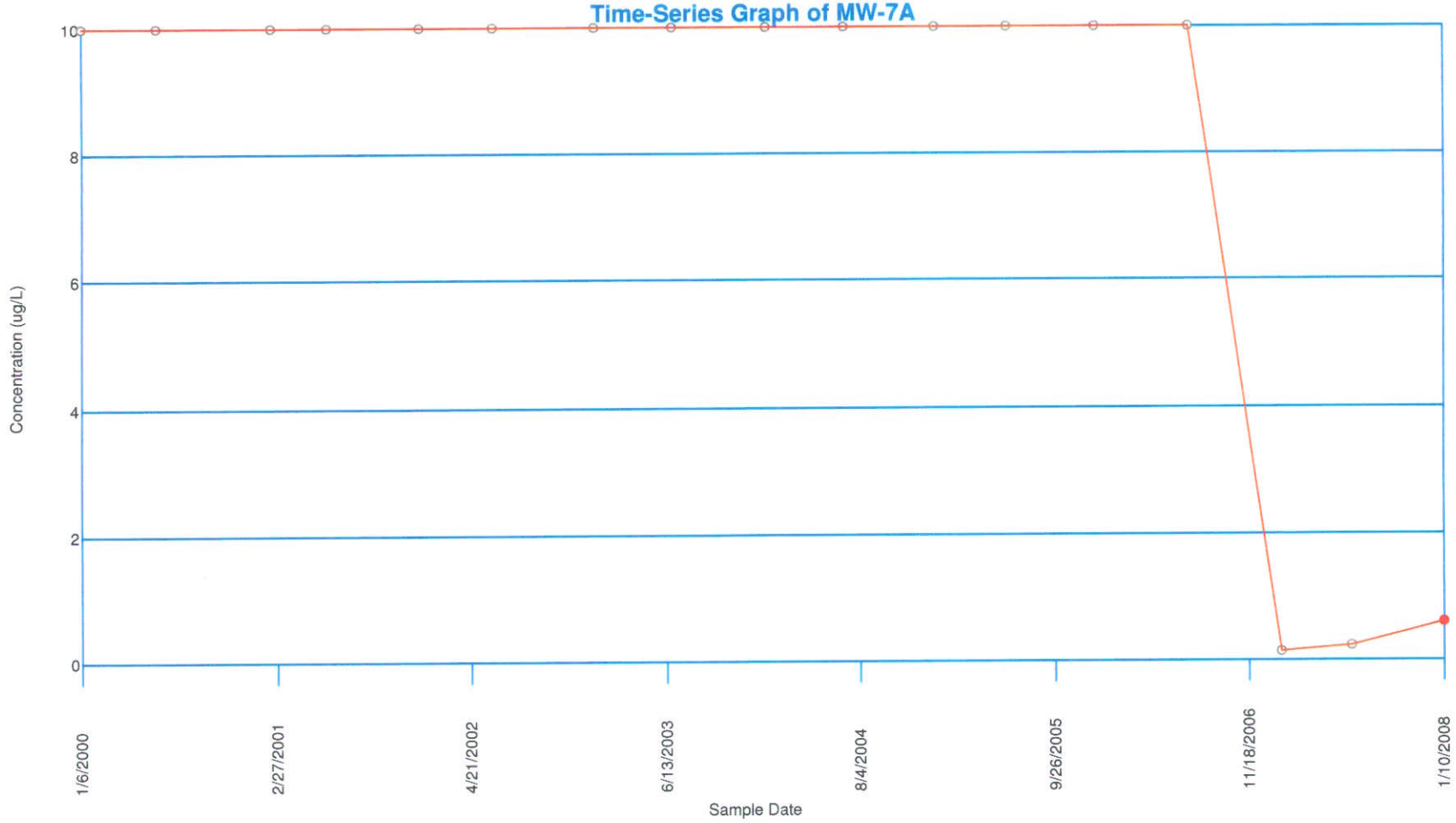
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Vinyl Chloride

Time-Series Graph of MW-7A



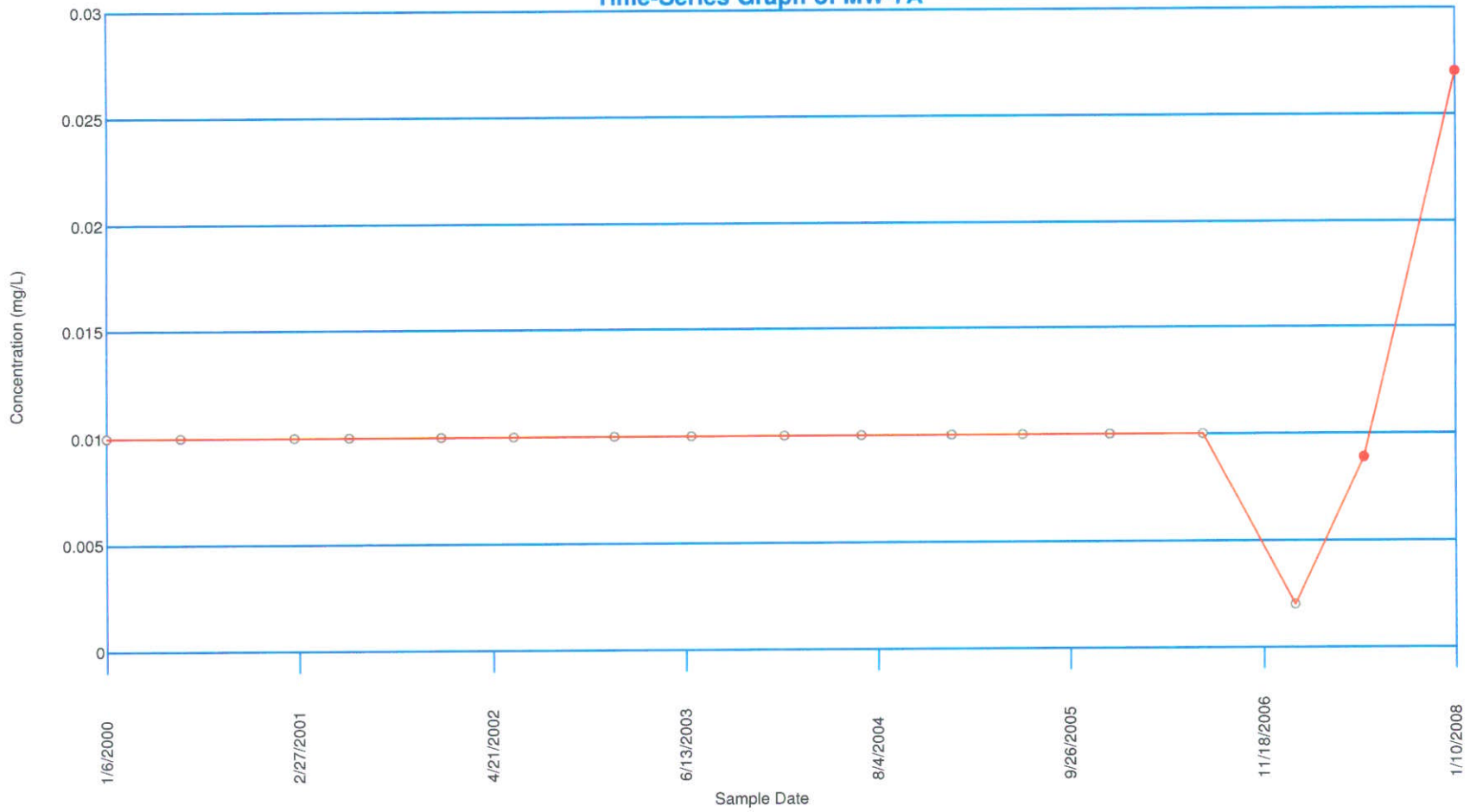
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Arsenic

Time-Series Graph of MW-7A



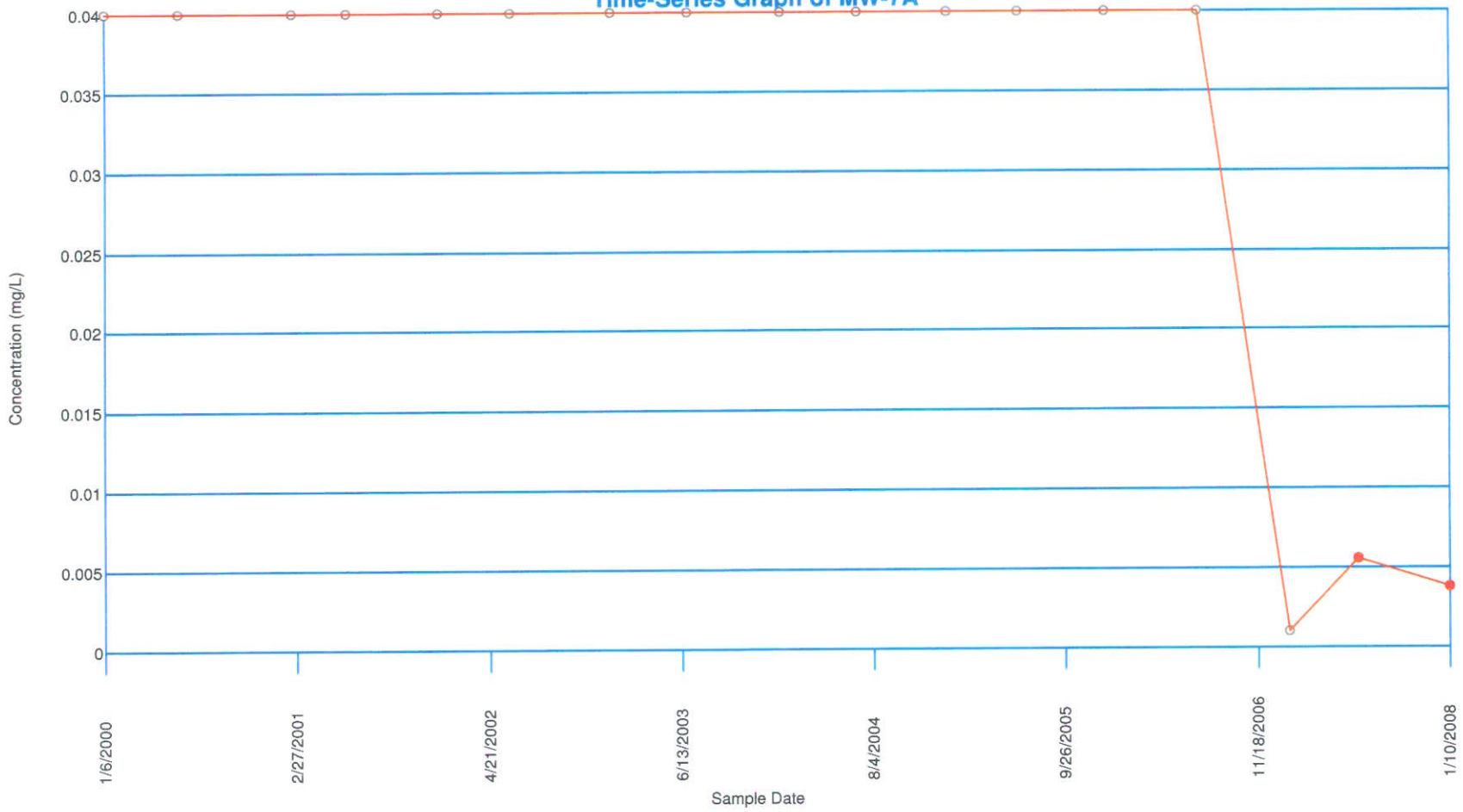
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Vanadium

Time-Series Graph of MW-7A



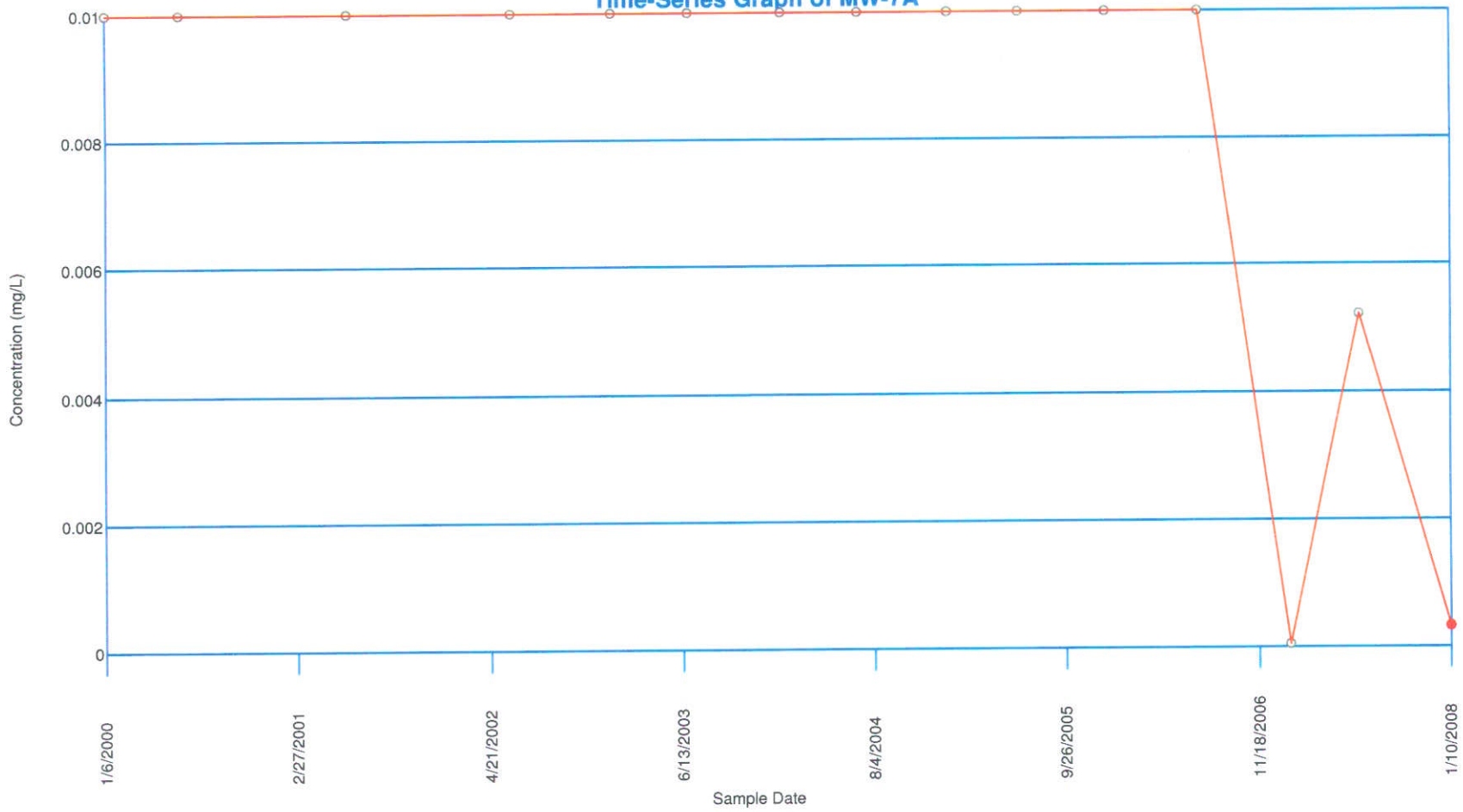
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Thallium

Time-Series Graph of MW-7A



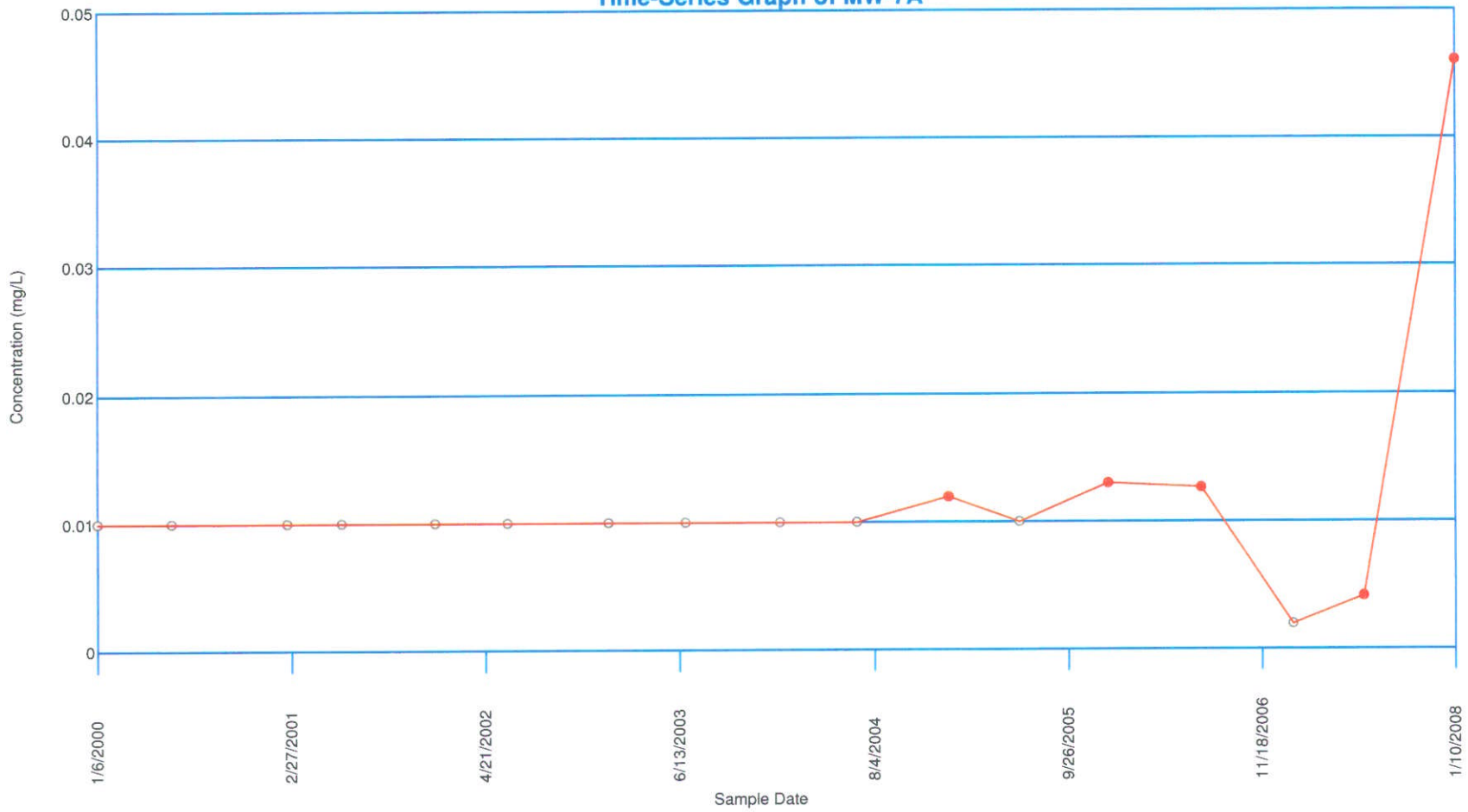
LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL

Edgecombe County Landfill

Lead

Time-Series Graph of MW-7A



LEGEND:

- ● = Constituent Detected Above Laboratory MDL
- ○ = Constituent Not Detected Above Laboratory MDL