January 28, 2011

Edgecombe County
Administration Building, Box 10
Tarboro, North Carolina 27886

Attention: Mr. Mike Cummings, Edgecombe County Solid Waste Manager

Reference: **Environmental Compliance Monitoring Report - July 2010**
Edgecombe County Landfill (Permit No. 33-01)
Tarboro, North Carolina
S&ME Project No. 1054-07-238C

Dear Mr. Cummings:

S&ME, Inc. (S&ME) is pleased to submit this report documenting the environmental compliance monitoring conducted on July 20-21, 2010 at the Edgecombe County Landfill located in Tarboro, North Carolina. These services have been performed in general accordance with S&ME Proposal No. P051-10V, dated July 6, 2010. A compact disk (CD) containing an electronic copy of this report in portable document format (.pdf) and **Table 1** in Excel spreadsheet format (.xls) is included in **Appendix II**. One copy of this report is attached for your file, and one copy was delivered on your behalf directly to the North Carolina Department of Environment and Natural Resources - Division of Waste Management (NCDENR-DWM), Solid Waste Section (Section).

According to the *Corrective Action Plan Review* letter dated January 16, 2009, NCDENR-DWM Section recommends continuance of semiannual sampling for analytes on the Appendix I constituent list and the full suite of monitored natural attenuation (MNA) parameters. Based on the results of the July 2010 monitoring event, S&ME also recommends continuing monitoring for the full suite of MNA parameters for at least one more event to establish baseline water quality.

S&ME appreciates the opportunity to provide environmental services to Edgecombe County. 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 Consultant

Attachment: Environmental Compliance Monitoring Report - July 2010

JULY 2010
ENVIRONMENTAL COMPLIANCE MONITORING REPORT
EDGECOMBE COUNTY LANDFILL
(PERMIT # 33-01)
TARBORO, NORTH CAROLINA

S&ME Project No. 1054-07-238C

Prepared for:

Edgecombe County
Solid Waste Department
PO Box 10
Tarboro, NC 27886

Prepared by:

S&ME, Inc.
3201 Spring Forest Road
Raleigh, North Carolina 27616

October 15, 2010

Michelle L. Logut
Environmental Scientist

Samuel P. Watts, P.G.
Senior Consultant

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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

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 C&D Landfill	2872 Colonial Road Tarboro, NC 27886	33-01	.1600	July 20-21, 2010

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) MNA Parameters
☐ Other(specify)

Notification attached?

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

Certification

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

Samuel P. Watts, P.G. Sr Consultant/Geologist (919) 872-2660

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

Signature 10/22/10 Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

Revised 01/2007

TABLE OF CONTENTS

1.0 PROJECT INFORMATION AND STATUS 1
1.1 Introduction 1
1.2 Background 1
2.0 JULY 2010 SAMPLING EVENT 3
3.0 SITE HYDROGEOLOGY 5
3.1 Groundwater Elevations and Flow Direction 5
3.2 Groundwater Flow Velocity 6
4.0 GROUNDWATER QUALITY 7
4.1 Groundwater Analytical Data 7
4.1.1 Compare Background and Compliance Detections to the SWSL 8
4.1.2 Compare Background and Compliance Detections to Standards 9
4.1.3 Compare Background and Compliance Detections to MDL 11
4.1.4 Geochemical / Monitored Natural Attenuation (MNA) Parameters 11
4.1.5 Quality Control 12
4.2 Surface Water Analytical Data 13
5.0 DISCUSSION OF GROUNDWATER DETECTIONS 15
5.1 Statistical Analysis 16
5.1.1 Evaluation of Non-Detected Values 16
5.1.2 Results of the Wilcoxon Rank-Sum Test 16
5.1.3 Comparison of 95% Upper Confidence Level to Groundwater Standards . 17
5.2 Qualitative Groundwater Review of Analytical Results 17
5.2.1 Compliance Monitor Well MW-5 18
5.2.2 Compliance Monitor Well MW-6 19
5.2.3 Compliance Monitor Well MW-7A 19
5.2.4 Compliance Monitor Well MW-12 20
5.2.5 Compliance Monitor Well MW-13 20
5.2.6 Compliance Monitor Well MW-14 21
5.2.7 Compliance Monitor Well MW-15 21
5.2.8 Compliance Monitor Well MW-16 21
5.3 Previous Investigations Selected Corrective Measures Remedy ..... Error! Bookmark not defined.
6.0 CONCLUSIONS AND RECOMMENDATIONS 23
6.1 Summary of July 2010 Sampling Event 23
6.2 Recommendations 24
7.0 REFERENCES 26

FIGURES

Figure 1 Vicinity Map
Figure 2 Groundwater Potentiometric Map

TABLES

Table 1 Groundwater Elevation Data, Field Parameters, and Laboratory Analysis Summary
Table 2 Groundwater Quality Summary
Table 3 Geochemical / MNA Constituent Summary

Table 4: Non-Detected Results Used to Select Statistical Tests

TABLE OF CONTENTS CONTINUED

Table 5: Summary of Statistical Analyses
Table 6: Two-Way Test of Proportions
Table 7: Trend Analyses

APPENDICES

Appendix I Report of Laboratory Analyses
Appendix II Compact Disk with Electronic Copy of Table 1 (.xls) and Electronic Copy of This Report (.pdf)
Appendix III: Groundwater Velocity Calculations
Appendix IV: Time Series Graphs for Monitor Wells

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 Colonial Road (S.R. 1601) in Edgecombe County, south of Tarboro, North Carolina (**Figure 1**). In general, the solid waste facility includes a municipal solid waste (MSW) transfer facility; a construction & demolition (C&D) debris landfill unit; white goods and pallets storage area; soil borrow pits; and various operational buildings. The C&D landfill unit is operated over an existing closed MSW landfill, in general accordance with North Carolina Department of Environment and Natural Resources Division of Waste Management (NCDENR-DWM) Permit No. 33-01. Edgecombe County continues to perform groundwater and surface water monitoring on a semiannual 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 July 2010 monitoring event as required by § .0600 and .1632 of the Solid Waste Rules.

The July 2010 monitoring event included sampling for groundwater quality from the following wells which comprise the groundwater monitoring network:

Water Quality Monitoring Network Groundwater Sampling Locations

Background Monitor Wells	Compliance Monitor Wells	
MW-3B	MW-5	MW-13
MW-4	MW-6	MW-14
MW-9	MW-7A	MW-15
	MW-12	MW-16

Jerry's Creek is the surface water feature located on the northern boundary of the landfill where two surface water samples (upstream and downstream) are typically collected to review surface water conditions. Neither the upstream nor the downstream surface water samples were collected during the July 2010 monitoring event because Jerry's Creek was dry during the July monitoring event. Sample locations are depicted 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, the facility's *Water Quality Monitoring Plan* (WQMP) dated September 1994 and the facility's revised WQMP dated June 2008, revised January 2010.

Volatile organic compounds (VOCs) and inorganic constituents (metals) have been detected above North Carolina groundwater protection standards in groundwater samples collected from groundwater compliance monitoring points used to monitor the

Edgecombe County Landfill. Previous statistical evaluation of the groundwater monitoring data indicated that a release of VOCs and metals had occurred from the landfill. In accordance with NCDENR North Carolina Solid Waste Rules defined under 15A NCAC 13B, S&ME has completed the following activities on behalf of Edgecombe County in response to the detections of the VOC and metals in groundwater :

- Statistical analyses (January 2007) of semiannual water quality results of compliance well monitoring system in accordance with the facility's Water Quality Monitoring Plan (WQMP);

- Alternate Source Demonstration (ASD) study in accordance with Solid Waste Rules defined under 15A NCAC 13B.1633(c)(3) and .1634(g)(2);

- Nature and Extent Study (NES) prepared in accordance with Solid Waste Rules defined under 15A NCAC 13B.1634(g)(1);

- Assessment of Corrective Measures (ACM) in accordance with Solid Waste Rules defined under 15A NCAC 13B.1635; and,

- Corrective Action Plan (CAP) in accordance with Solid Waste Rules defined under 15A NCAC 13B.1636.

The July 2010 semiannual groundwater sampling services were completed in general accordance with the requirements of the Solid Waste Rules defined under 15A NCAC 13B .1632 (Groundwater Sampling and Analysis Requirements), .1634 (Assessment Monitoring Program), and .1637 (Implementation of the Corrective Action Program).

2.0 JULY 2010 SAMPLING EVENT

On July 20-21, 2010, S&ME personnel collected groundwater samples from 11 monitor wells (MW-3B, MW-4, MW-5, MW-6, MW-7A, MW-9, MW-12, MW-13, MW-14, MW-15, and MW-16) at the Edgecombe County Landfill (**Figure 2**). S&ME personnel performed sampling in general accordance with the Solid Waste Rules and the facility's WQMP, dated June 2008, revised January 2010.

Prior to collecting groundwater samples, the monitor wells and piezometers listed in the WQMP network of points for groundwater elevation measurements were opened and allowed to equilibrate with atmospheric conditions before gauging the liquid level. The measurements were collected to calculate relative groundwater elevations; develop a groundwater potentiometric map; and to estimate the hydraulic gradient and groundwater flow direction at the time of the sampling event. Groundwater depths were measured to an accuracy of ±0.01 feet using an electronic water level indicator, which was decontaminated before its initial use and between measurements. 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**.

After the static groundwater level measurements were made from the wellhead, stagnant water from each sampled well was purged using a peristaltic pump. New silicon tubing placed through the drive of the peristaltic pump was attached to a section of dedicated Teflon-lined tubing that was inserted into the monitor well. Low-flow sampling methods were followed to purge and sample groundwater from the monitor wells. As purging proceeded, an YSI® multi-meter with a flow-through cell was used to measure field parameters that included pH, temperature, specific conductance, dissolved oxygen, oxidation-reduction potential, and turbidity on groundwater purged from the monitor wells. Purge parameter measurements were measured and recorded at regular intervals before sampling. The multi-meter was calibrated by Pine Environmental and the calibration was field-checked with calibration standards by S&ME personnel before use.

A groundwater sample was collected after field parameters (pH, temperature, and conductivity) stabilized and the turbidity measurement was approximately 30 Nephelometric Turbidity Units (NTUs) or below. In accordance with the WQMP, field parameters were considered stable when they were changing less than 10 percent over three consecutive measurements. The field parameter measurements are presented in **Table 1**. One duplicate groundwater sample was collected from MW-5 for the purpose of Quality Control (QC). In addition, one trip blank and one equipment blank sample were also collected for QC. These results are included in **Table 2**.

Groundwater samples were collected through the silicon tubing directly into clean containers provided by the laboratory. Once filled, the sample containers were sealed, labeled, and placed into an insulated container with ice. The samples were submitted under chain-of-custody protocols to Environmental Conservation Laboratories, Inc. (ENCO), a North Carolina-certified laboratory. ENCO tested the samples for

constituents listed in 40 CFR 258 Appendix I and several additional monitored natural attenuation (MNA) parameters, selected to measure the effectiveness of the corrective actions to be implemented at the site.

S&ME personnel also collected gas-phase vapor samples from one background monitor well (MW-4) and three compliance monitor wells (MW-5, MW-12, and MW-16). The vapor samples were collected with a gas stripping cell provided by Microseeps Laboratory (Microseeps). Stagnant water from each sampled well was purged using a peristaltic pump. New silicon tubing placed through the drive of the peristaltic pump was attached to a section of dedicated Teflon-lined tubing that was inserted into the water column in the monitor well. A new section of polyethylene tubing connected the inlet port of the gas stripping cell to the silicon tubing through the drive of the peristaltic pump. A ring stand and clamp were used to secure the cell assembly during sampling. Approximately 20 milliliters (mL) of air was injected into the cell with a new syringe and plunger provided by Microseeps. Groundwater was pumped through the cell at approximately 180 mL per minute for approximately 20 minutes, which is the equilibrium time needed to strip gas at this flow rate. Once the equilibrium time expired, approximately 15 mL of sample gas was withdrawn from the cell with the syringe and plunger, and the withdrawn gas sample was injected into a new sample vial provided by the laboratory. Once filled, the sample vials were sealed, labeled, and placed into a cardboard box with packing material. The samples were submitted under chain-of-custody protocols to Microseeps in Pittsburgh, Pennsylvania. Microseeps tested the vapor samples for hydrogen by Method AM20GAX.

The results of analytical testing are discussed in **Section 4.1** and a summary of constituent concentrations are presented in **Table 1**, **Table 2,** and **Table 3**. A copy of the laboratory reports is provided in **Appendix I**. 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) are 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 and the drainage features in the active landfill area. During flood conditions, the southwest perimeter trench and the farm pond located in the southeast corner of the site may recharge the aquifer. The marine clay layer (Yorktown Formation) encountered at depths from approximately 8 to 24 feet below the original ground surface acts as an aquitard and semi-confining layer below the landfill.

Shallow monitoring wells and piezometers are installed in the surficial aquifer with the bottoms of the wells resting above, on, or penetrating the top of the Yorktown Formation. As previously discussed, static water levels in fifteen monitor wells and twelve piezometers of the site monitoring network were measured prior to sampling.

Static water level measurements collected during the July 2010 sampling event (Table 1) were used to calculate the corresponding groundwater elevations based on surveyed top of casing (TOC) elevations. A groundwater potentiometric map was developed using the groundwater elevations (**Figure 2**). Based upon the groundwater potentiometric surface elevations, the groundwater flow direction was estimated to be to the north-northeast. The average horizontal hydraulic gradient was calculated from three point calculation solutions using two sets (three wells per set) of groundwater elevation data measured on July 20, 2010 and by applying the following equation (Driscoll, 1986):

$$i = \frac{h_1 - h_2}{L}$$

where:

i = Hydraulic gradient
$h_1 - h_2$ = Difference in hydraulic head (feet)
L = Distance along flow path (feet)

The three point calculation is used to estimate the hydraulic gradient perpendicular to a groundwater potentiometric contour of equal elevation determined from high, intermediate, and low groundwater elevations at three monitor wells. The gradient calculated perpendicular to the equal elevation contour plotted from the well set is representative of a true gradient rather than the apparent gradient that is estimated from a two-well point gradient calculation. Based on the Driscoll gradient equation and using a third groundwater elevation to plot the equal elevation contour, the distance L can be measured between h_1 and h_2 perpendicular to the equal elevation contour to estimate the true hydraulic gradient for the three groundwater elevation data points. The average

horizontal hydraulic gradient from two three point solutions using well sets MW-3B, MW-7A, and MW-5, and P-1, MW-7A and MW-5 is estimated to be 0.0204 ft/ft. The hydraulic gradient calculations are included in **Appendix III**.

3.2 Groundwater Flow Velocity

An approximate average linear groundwater flow velocity (V) may be calculated by the equation (Freeze and Cherry, 1979):

$$V = \frac{Ki}{n}$$

where:
V = Average linear groundwater flow velocity [feet per year (ft/yr)]
K = Hydraulic conductivity (ft/yr)
i = Flow gradient as a ratio (ft/ft)
n = Effective soil porosity (percent)

Aquifer slug tests were previously performed at the site by Law Engineering Company (Law) and S&ME using rising and falling head test techniques. The slug test data were used to estimate the hydraulic conductivity of the sediments in the surficial aquifer intersected by the screened intervals of the monitor wells tested. The aquifer test data (provided in previous reports) were analyzed by the Bouwer and Rice Method.

The hydraulic conductivity, K, values previously measured at the site ranged from 1.29×10^{-5} centimeters per second (cm/sec) to 3.65×10^{-4} cm/sec. An average hydraulic conductivity value of 5.95×10^{-5} cm/sec was used for calculating the site-wide flow velocity. The average hydraulic gradient of 0.0204 ft/ft, calculated from the three point solution described above was used as the site-wide average gradient. An effective soil porosity, n, of 15% was used as the site-wide average.

Calculations performed using the equation and input values above estimate that the average groundwater flow velocity, V, for the site was approximately 8.37 ft/yr. Groundwater flow velocity calculations are included in **Appendix III**. The average groundwater flow velocity information is presented on **Figure 2**.

4.0 GROUNDWATER QUALITY

In general accordance with the assessment monitoring requirements described in § .1634 of the Solid Waste Rules, S&ME sampled three background and eight compliance groundwater monitor wells during the July 2010 sampling event. The samples were analyzed by ENCO for constituents listed in the 40 CFR 258, Appendix I analyte list using the analytical methods that included EPA Method 6010/6020 (metals) and Method 8260B (VOCs). Groundwater samples from selected compliance wells were also tested for additional MNA parameters; the test methods are listed in the ENCO laboratory report. Results from the groundwater laboratory analyses are presented in the following sections. The field measurements and analytical results are summarized on **Table 1,** and the groundwater summary of compound detections is presented in **Table 2** and **Table 3**. The chain-of-custody form and the laboratory reports from ENCO are provided in **Appendix I**.

During the July 2010 sampling event, several groundwater samples (MW-3B, MW-4, MW-9, MW-6, MW-14, and MW-16) were analyzed for both total metals (required) and dissolved metals (voluntary additional). The purpose of the dissolved analyses was to provide additional data for interpretation of total metals results. Analysis of total metals provides the level of both dissolved and mobile particulate-associated metals available for potential transport. Typically, a dissolved (filtered) metal determination is less than its concentration as a total (unfiltered) metal, indicating that mobile particulates, removed by filtering for the dissolved analysis, contribute to the total concentration. A high total metals result paired with a low to non-detectable dissolved metals result suggests that the total metal concentration reported by the laboratory may be the result of turbidity (suspended solids) in the sample. Mobile particulates are frequently present in groundwater with high turbidity, such as has been previously observed in groundwater sampled from several of the on-site wells.

Effective December 1, 2006 NCDENR-DWM, Section, changed the standard limits for comparing constituent detections in laboratory analysis from the Practical Quantitation Limits (PQLs) established in 1994 to the Solid Waste Reporting Limits (SWRLs). On February 23, 2007, the Section further revised the reporting limits from the SWRL to the Solid Waste Section Limit (SWSL). The SWSL was defined as the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy. The new SWSL limits are lower than the previous PQL limits. Concentrations reported by the laboratory that are above the Method Detection Limit (MDL) but below the SWSL must be qualified as estimated values designated by the letter “J”. According to the laboratory quality control performed by ENCO, detections above the MDL but below the method reporting limit (MRL) are considered estimated values, designated by the letter “J”.

4.1 Groundwater Analytical Data

Constituent concentrations detected above the laboratory MDLs are summarized on **Table 2**. For comparison purposes, these results are shown with their respective SWSL

and the 15A North Carolina Administrative Code (NCAC) Subchapter 2L .0200 Groundwater Quality Standards (2L Standard) which were recently revised and became effective January 1, 2010. Where target groundwater constituents have no established 2L Standard, the MDL is the default 2L Standard. However, since the DWM has listed constituent concentrations protective of groundwater, the NCDENR-DWM Section Ground Water Protection Standard (GWPST) established in accordance with the Solid Waste Management Rules, Section .1634(h) is used as the action level for detections where no 2L Standard is established.

4.1.1 Compare Background and Compliance Detections to the SWSL

The following table summarizes the monitor well locations where 15 Appendix I constituents were detected at levels that are equal to or exceed the **SWSL** concentration in one or more samples in the July 2010 monitoring event:

July 2010 Groundwater Sampling Event
Appendix I Constituent Concentration Detected Equal to or Greater than SWSL

Background Monitor Wells	**Appendix I Detected Constituents Equal to or Greater Than Their SWSL**
MW-3B	barium, cobalt, zinc
MW-4	--
MW-9	barium
Compliance Monitor Wells	**Appendix I Detected Constituents Equal to or Greater Than Their SWSL**
MW-5	benzene, chlorobenzene, 1,4-dichlorobenzene*, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride*, vinyl chloride, arsenic, barium, cobalt, lead, zinc
MW-6	barium
MW-7A	benzene, arsenic, barium
MW-12	benzene, chlorobenzene, 1,4-dichlorobenzene, barium, cobalt, zinc
MW-13	benzene, chlorobenzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, trichloroethene, vinyl chloride, barium, cobalt, nickel, zinc
MW-14	barium
MW-15	cis-1,2-dichloroethene, 1,2-dichloropropane, vinyl chloride, barium
MW-16	arsenic, barium

-- = No Appendix I constituent concentrations were detected above SWSL
* = constituent detected in record sample, but not duplicate sample

Volatile Organic Compounds

No Appendix I VOC concentrations were detected by USEPA Method 8260B in the groundwater samples collected and analyzed from the upgradient background monitor wells MW-3B, MW-4, and MW-9 nor were they detected in the groundwater samples collected from the downgradient compliance monitor wells MW-14 and MW-16.

The table above lists the VOCs detected in groundwater sampled from monitor wells MW-5, MW-7A, MW-12, MW-13, and MW-15 that were detected above their respective SWSLs. Two VOCs were detected in the groundwater sample collected from compliance monitor well MW-6, but below their respective SWSLs.

Inorganic Compounds

The table above lists the inorganic compounds detected in groundwater sampled from the upgradient background monitor wells MW-3B and MW-9 and downgradient compliance monitor wells MW-5, MW-6, MW-7A, MW-12, MW-13, MW-14, MW-15, and MW-16 that were detected above their respective SWSLs. Four inorganic compounds were detected in the groundwater sample collected from background monitor well MW-4, but below their respective SWSLs.

The dissolved concentration of barium reported in the filtered sample from MW-9 (52.8J µg/L) was less than the SWSL of 100 µg/L, versus 128 µg/L of barium detected in the unfiltered sample from MW-9. In addition, the dissolved concentration of arsenic detected in the filtered sample from MW-16 was less than the laboratory's Method Detection Limit (MDL) of 2.80 µg/L and SWSL of 10 µg/L, versus 10.5 µg/L of arsenic detected in the in the unfiltered sample from MW-16.

4.1.2 Compare Background and Compliance Detections to Standards

The following table summarizes the monitor well locations where 13 Appendix I constituents were detected above the **2L Standard or GWPST** (presented in **Table 2**). The compounds were detected in one or more groundwater samples analyzed for the July 2010 monitoring event:

July 2010 Groundwater Sampling Event
Appendix I Constituent Concentration Detected Above 2L Standard or GWPST

Background Monitor Wells	Appendix I Detected Constituents Above 2L Standard or GWPST
MW-3B	thallium, vanadium
MW-4	antimony
MW-9	--
Compliance Monitor Wells	**Appendix I Detected Constituents Above 2L Standard or GWPST**
MW-5	benzene, 1,4-dichlorobenzene*, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride*, vinyl chloride, arsenic, cobalt
MW-6	--
MW-7A	benzene, arsenic, vanadium
MW-12	benzene
MW-13	benzene, vinyl chloride, cobalt, nickel, thallium
MW-14	--
MW-15	1,2-dichloropropane, vinyl chloride
MW-16	arsenic

-- = No Appendix I constituent concentrations were detected above 2L Standard or GWPST.
* = constituent detected in record sample, but not duplicate sample

No Appendix I VOC or inorganic compound concentrations were detected above their respective 2L Standards or GWPSTs, in the groundwater samples collected from the upgradient background monitor well MW-9, nor were they detected in the groundwater samples collected from the downgradient compliance monitor wells MW-6 and MW-14. Constituent concentrations were detected above their respective 2L Standard or GWPST in groundwater samples collected from background monitor wells MW-3B and MW-4 and compliance monitor wells MW-5, MW-7A, MW-12, MW-13, MW-15 and MW-16.

The dissolved concentration of thallium reported in the unfiltered sample from MW-3B (0.239J µg/L) was less than the GWPST of 0.28 µg/L, versus 0.386J µg/L of thallium detected in the filtered sample from MW-3B. As mentioned previously, the dissolved concentration of arsenic detected in the filtered sample from MW-16 was less than the laboratory MDL of 2.80 µg/L, versus 10.5 µg/L of arsenic detected in the in the unfiltered sample from MW-16. The concentration of 10.5 µg/L in the unfiltered sample is greater than the 2L Standard of 10 µg/L established for arsenic.

Constituent detections above the 2L Standard or GWPST trigger implementing the assessment monitoring program in general accordance with § .1634 of the Solid Waste Rules. However, constituents above the 2L Standard or GWPST were previously detected, therefore this monitoring event was performed in general accordance with § .1634 (d)(2) of the Solid Waste Rules since the Assessment Monitoring Program was

already implemented. An Alternate Source Demonstration (ASD) study was performed in general accordance with Solid Waste Rules defined under 15A NCAC 13B.1633(c)(3) and .1634(g)(2); the Nature and Extent Study (NES) was prepared in general accordance with Solid Waste Rules defined under 15A NCAC 13B.1634(g)(1); the Assessment of Corrective Measures (ACM) was performed in general accordance with Solid Waste Rules defined under 15A NCAC 13B.1635; and the Corrective Action Plan (CAP) was prepared and approved by the NCDENR in general accordance with Solid Waste Rules defined under 15A NCAC 13B.1636. The corrective measures are in the process of being implemented, therefore, monitoring for this event is also for compliance with § .1637 (a)(1) under Implementation of the Corrective Action Program.

4.1.3 Compare Background and Compliance Detections to MDL

The analytical data was reviewed by comparing constituent detections in the background and compliance monitor wells to the laboratory's Method Detection Limit (MDL). Twenty-six Appendix I constituents (summarized in **Table 2**) were detected above the MDL in one or more groundwater samples collected during the July 2010 monitoring event.

The dissolved concentrations of several inorganic compounds (arsenic, cobalt, lead, silver, and vanadium) were reported as less than their respective laboratory MDLs in the filtered samples and above their respective laboratory MDLs in the unfiltered samples for two background monitor wells (MW-3B and MW-4) and two compliance monitor wells (MW-6 and MW-16).

In addition, the dissolved concentrations of two inorganic compounds (lead and nickel) were reported above their respective laboratory MDLs in the filtered samples and below their respective laboratory MDLs in the unfiltered samples for one background monitor well (MW-9) and one compliance monitor well (MW-16).

4.1.4 Geochemical / Monitored Natural Attenuation (MNA) Parameters

Groundwater samples were analyzed for geochemical and monitored natural attenuation (MNA) parameters in upgradient background monitor wells MW-3, MW-4, and MW-9, and downgradient compliance monitor wells MW-5, MW-6, MW-7A, MW-12, MW-13, MW-14, MW-15, and MW-16. The analyses were performed to review the status of previously discovered impact to the groundwater from landfill leachate, as well as to review the geochemical parameters that may indicate that the degradation process to reduce leachate constituent concentrations is occurring. The MNA parameters and field parameters measured at the background and compliance monitor wells were used to assess the natural biological degradation process of constituents released to the groundwater. **Table 3** is a summary of the geochemical and MNA constituent results from field measurements and from analytical testing performed during the July 2010 monitoring event.

The field parameter data measured using the YSI® multi meter with flow through cell (or equivalent) was reviewed to assess the potential biological activity and the type of environment that appears to be helping to destroy concentrations of source contaminants

(i.e. tetrachloroethene, trichloroethene, and hydrocarbons) present in landfill leachate. Low oxygen reduction potential (ORP) measurements often indicate a reducing environment. Compared to background monitor wells, ORP readings were lower than background in MW-5, MW-6, MW-7A, MW-13, MW-14, MW-15, and MW-16. From the ORP measurements, a reducing environment appears to be present near and downgradient to sources of petroleum and chlorinated solvents.

Dissolved oxygen (DO) concentrations that are less than 1 milligram per liter (mg/L) indicate anaerobic conditions in the aquifer. Although DO concentrations were generally lower in the downgradient compliance monitor wells, than in the upgradient background monitor wells, DO measurements less than 1 mg/L were observed in background or compliance wells.

The review of geochemical and MNA parameter data in tandem with groundwater quality data indicate that reductive dechlorination is occurring under anaerobic conditions at the site. Evidence of this are the elevated alkalinity, chloride, carbon dioxide, and methane values compared to upgradient or background sample measurements. In addition, monitor well MW-13 is the only sample location in the July 2010 event that had a low level detection of trichloroethene (TCE). The groundwater sample collected from monitor well MW-13 also had detections of daughter compound concentrations from the reduction of TCE including 1,1-dichloroethane, cis-1,2-dicloroethene, trans-1,2-dichloroethene, and vinyl chloride, as well as detections of compounds indicative of hydrocarbon degradation including benzene, chlorobenzene, chloroethane, and 1,4-dichlorobenzene. Similarly, low levels of chlorinated daughter compounds and/or hydrocarbons were also detected in wells MW-5, MW-6, MW-7A, MW-12, and MW-15. Chloride and ethene are metabolic byproducts of the total reduction of chlorinated solvents. Chloride concentrations were detected in the samples collected from background wells MW-3B, MW-4, and MW-9 and downgradient compliance wells MW-5, MW-6, MW-7A, MW-12, MW-13, MW-14, MW-15, and MW-16. Ethene was detected in the sample collected from downgradient compliance well MW-5.

Further analyses for the geochemical parameters from selected monitor wells in the network will be necessary to review influences on constituent concentrations by naturally occurring biological degradation processes.

4.1.5 Quality Control

Quality assurance and quality control of field sampling methods and analytical test methods were assessed by collecting and analyzing one duplicate sample, one equipment blank sample, and one trip blank sample. The duplicate and equipment blank samples were analyzed for Appendix I constituents by the same methods and for the same target constituents as the record samples. Duplicate sample analysis documents the consistency of field sampling methods and the consistency of laboratory testing between samples. Equipment blank sample analysis documents the quality of sampling equipment and decontamination procedures used to reduce the potential of cross-contamination or carry-over effects from sampling equipment used on-site. The trip blank is analyzed for VOCs

to document the effect of external conditions on samples/sample containers during lab pack preparation and transportation to and from the site.

The concentrations of Appendix I VOCs and inorganic compounds detected in the record and in the duplicate samples collected from monitor well MW-5 were within an acceptable tolerance level and indicate a suitable replication of results from the test procedures. Concentrations of 1,4-dichlorobenzene, trans-1,2-dichloroethene, methylene chloride, selenium, and vanadium were only detected in the record sample collected from monitor well MW-5 and not in the duplicate sample collected from MW-5. The 1,4-dichlorobenzene results from the record and duplicate sample analyses (9.4 micrograms per liter [µg/L] reported for the record sample and <3.8 µg/L detected in the duplicate sample), trans-1,2-dichloroethene results (4.0 µg/L reported for the record sample and <3.4 µg/L detected in the duplicate sample), selenium results (1.01 µg/L reported for the record sample and <0.830 µg/L detected in the duplicate sample), and vanadium results (1.43 µg/L reported for the record sample and <1.40 µg/L detected in the duplicate sample) also fall within acceptable tolerance levels and indicate suitable replications of results from the test procedures.

In addition, Methylene chloride was detected in the record sample collected from MW-5 (16 µg/L) and not in the duplicate sample collected from MW-5 (<5.3 µg/L). However, methylene chloride was also detected in the associated laboratory method blank.

Three inorganic constituents (antimony, arsenic, and selenium) were detected at concentrations that exceeded their respective MDLs, but below their respective SWSLs in the equipment blank sample. Because these compounds were detected in the equipment blank sample, the determination of the presence of antimony, arsenic, and selenium in the monitor well record samples was inconclusive.

No target constituents were detected in the trip blank sample.

It is important to note that the laboratory MDL for vinyl chloride (0.30 µg/L) for groundwater samples is greater than the 2L Standard of 0.03 µg/L. Therefore, vinyl chloride may have been present at concentrations above the 2L Standard, but was reported as being below the MDL. In addition, due to the dilution factor of 10 used in the analysis of groundwater from the monitor well MW-5 record and duplicate sample VOC analysis, the laboratory MDLs for benzene (<2.0 µg/L), 1,2-dichloropropane (<2.0 µg/L), methylene chloride (5.3 µg/L), and trichloroethene (<3.8 µg/L) are greater than the 2L Standards of 1 µg/L, 0.6 µg/L, 5 µg/L, and 3 µg/L, respectively. Therefore, benzene, 1,2-dichloropropane, methylene chloride, and trichloroethene may have been present at concentrations above their respective 2L Standards in the record or duplicate samples collected from monitor well MW-5, but were reported as being below their respective MDLs.

4.2 Surface Water Analytical Data

No surface water samples were collected as part of the July 2010 monitoring event because the two surface water sampling points (upstream and downstream) located on

Jerry's Creek were dry at the time of our site visit. Surface water sample locations are illustrated on **Figure 2**.

5.0 DISCUSSION OF GROUNDWATER DETECTIONS

As discussed in **Section 4.0**, the following 26 individual Appendix I constituents were detected during the July 2010 monitoring event:

July 2010 Groundwater Sampling Event
Appendix I Constituent Concentration Detected Above MDL

Background Monitor Wells	Appendix I Detected Constituents Detected Above MDL
MW-3B	arsenic, barium, beryllium, cadmium, cobalt, lead, nickel, selenium, thallium, vanadium, zinc
MW-4	antimony, barium, copper, vanadium
MW-9	barium, lead
Compliance Monitor Wells	**Appendix I Detected Constituents Detected Above MDL**
MW-5	benzene, chlorobenzene, 1,4-dichlorobenzene*, 1,1-dichloroethane, cis-1,2-dichloroethene, trans-1,2-dichloroethene*, methylene chloride*, vinyl chloride, arsenic, barium, cobalt, lead, nickel, selenium*, vanadium*, zinc
MW-6	1,1-dichloroethane, cis-1,2-dichloroethene, barium, cobalt, selenium, silver, vanadium
MW-7A	benzene, chlorobenzene, chloroethane, 1,4-dichlorobenzene, arsenic, barium, beryllium, lead, selenium, vanadium
MW-12	acetone, benzene, chlorobenzene, chloroethane, 1,4-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, barium, beryllium, cobalt, lead, nickel, selenium, vanadium, zinc
MW-13	benzene, chlorobenzene, chloroethane, 1,4-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, trans-1,2-dichloroethene, trichloroethene, vinyl chloride, barium, beryllium, cobalt, lead, nickel, selenium, silver, thallium, zinc
MW-14	barium
MW-15	benzene, chlorobenzene, chloroethane, 1,1-dichloroethane, cis-1,2-dichloroethene, trans-1,2-dichloroethene, 1,2-dichloropropane, vinyl chloride, arsenic, barium, cobalt, nickel, selenium, silver
MW-16	arsenic, barium, lead, nickel, selenium, vanadium

* = constituent detected in record sample, but not duplicate sample

Fourteen of the 26 Appendix I constituents detected during the July 2010 monitoring event are inorganic compounds. In June 2008 S&ME performed an Alternate Source Demonstration (ASD) study that concluded that several inorganic compounds detected in groundwater were the result of the natural occurrence of these constituents in the native, residual soil. The detections of the fourteen inorganic compounds were compared to the Dilution/Attenuation Factor (DAF) computations included in the ASD (reference **Table**

2). This comparison indicates that the concentrations of the naturally occurring metals arsenic, beryllium, cadmium, copper, lead, selenium, thallium, vanadium, and zinc within the in-situ soil at the facility are sufficient to influence the concentrations of these metals in groundwater samples collected during the July 2010 monitoring event. Therefore, only five of the 14 inorganic compounds (antimony, barium, cobalt, nickel, and silver) detected during the July 2010 monitoring event are included in the statistical analyses.

As required by Sections .1632, .1633, and .1634 of the Solid Waste Rules and the facility's WQMP (S&ME, 2008, Revised 2010), statistical analyses were applied to the July 2010 analytical results. Those analytes detected during the July 2010 sampling event were reviewed and analyzed in comparison to previous sampling results from the Edgecombe County Landfill facility. This method was used in order to evaluate trends and changes in the sampling results as well as statistically significant differences between upgradient and downgradient wells.

The data set used to evaluate the July 2010 detections at the Edgecombe County Landfill facility includes 35 groundwater sampling events completed between September 1994 and July 2010. Since several wells were abandoned or replaced during this time period, S&ME selected data from three existing background wells (MW-3B, MW-4, and MW-9) and data from eight existing compliance wells (MW-5, MW-6, MW-7A, MW-12, MW-13, MW-14, MW-15, and MW-16) located at the Edgecombe County Landfill to use in the statistical analyses.

5.1 Statistical Analysis

Analyses of historical data provided insight into the dynamics of the analytes detected during the July 2010 monitoring event. By using a larger array of data, S&ME was able to apply statistical procedures to evaluate trends in groundwater quality. This statistical evaluation used a step-wise approach to identify potential releases from the landfill.

5.1.1 Evaluation of Non-Detected Values

First, the data was evaluated for non-detected values. Our analyses showed that the data for Edgecombe County Landfill contains more than 50 percent non-detected results for individual analytes, most of which (13 of 18 analytes) exceeded 80 percent non-detected results. A summary of the non-detected results used to select the statistical analyses (the Wilcoxon Rank-Sum Test) is shown on **Table 4**.

5.1.2 Results of the Wilcoxon Rank-Sum Test

The application of the Wilcoxon Rank-Sum Test (WRST) was the second step in the statistical analyses. Due to the large number of non-detected values, the WRST, a non-parametric statistical analysis, was used to compare individual downgradient or compliance wells to the upgradient or background well group. This analysis was performed on data sets of VOCs and five inorganic constituents. However, statistical evidence at this level does not necessarily dictate non-compliance with regard to

groundwater quality. The result of the WRST analyses for data from September 1994 to July 2010 is summarized in **Table 5**.

Evidence of a release from the landfill was found for several Appendix I VOCs and three inorganic constituents (cobalt, nickel, and silver). Statistical evidence of a release is supported by the reported detections of VOCs and/or inorganic constituents in compliance wells MW-5, MW-6, MW-7A, MW-12, MW-13, MW-14, MW-15, and MW-16.

5.1.3 Comparison of 95% Upper Confidence Level to Groundwater Standards

The third step was to compare significant findings of a release for each analyte to its respective standard. Using the Two-Tailed Test of Proportions non-parametric procedure, a comparison of the analytes with statistical evidence of a release at the 95% upper predictive limit (UPL) was compared to their respective 2L Standard/GWPST. This comparison is summarized in **Table 6**. The following individual analytes statistically exceeded their respective groundwater standards:

Analytes Whose 95% UPL Exceeds Groundwater Standards

Analyte
Benzene
1,4-Dichlorobenzene
1,1-Dichloroethane
cis-1,2-Dichlorethene
Methylene chloride
Trichloroethene
Vinyl chloride
Cobalt*
Nickel

Notes:

*Indicates there is currently no 2L Standard. The target analyte was compared to the Solid Waste Groundwater Protection Standard (GWPST).

5.2 Qualitative Groundwater Review of Analytical Results

For those analytes detected during the July 2010 sampling event whose 95% UPL exceeds their respective groundwater standards, S&ME performed a trend analysis of the data and of time concentration graphs to assess whether groundwater quality was improving, degrading, or remaining constant. Data entry and analysis was performed using the ChemStat® statistical software by Starpoint Software following EPA and DWM protocols for approved statistical analysis methods for groundwater data. The July 2010 data was entered into the historical source database for the site, and was reviewed

and evaluated using the statistical analysis methods discussed in **Section 5.1**. Time series graphs for wells MW-5, MW-6, MW-7A, MW-12, MW-13, and MW-15 are graphical representations of data trends over time and are included in **Appendix IV** of this report. These time series graphs are of groundwater quality for those chemical constituents that; 1) were detected during the July 2010 sampling event, 2) resulted in significant evidence of a release, or 3) whose 95% UPL have exceeded its respective standard.

For those analytes detected during the July 2010 sampling event with no evident trend, S&ME performed a statistical trend analysis. The analyses used were the Mann-Kendall analyses (one analysis for upward trends and one analysis for downward trends) and the Sen's Slope analysis, which analyses for both upward and downward trends. **Table 7** presents the results of the trend analyses for each compound in each well.

5.2.1 Compliance Monitor Well MW-5

Seven Appendix I VOCs (benzene, chlorobenzene, 1,4-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride, and vinyl chloride) and five inorganic compounds (arsenic, barium, cobalt, lead, and zinc) were detected in either the record sample or duplicate sample collected from monitor well MW-5 above their respective SWSLs during the July 2010 sampling event. Concentrations of chlorobenzene and barium have been detected sporadically over time, and the 95% UPLs for these detections at the facility do not exceed their respective groundwater standards. The concentrations of the naturally occurring metals arsenic, lead, and zinc within the in-situ soil at the facility are sufficient to influence the concentrations of these metals in the groundwater sample collected from monitor well MW-5 during the July 2010 monitoring event. Therefore, no trend analyses were performed for these constituents at monitor well MW-5. Trichloroethene was not detected in the record sample or duplicate sample collected from MW-5 during the July 2010 sampling event. Nickel was detected in the record sample and duplicate sample collected from monitor well MW-5 during the July 2010 sampling event, but below its respective SWSL. However, concentrations of trichloroethene and nickel have been detected sporadically over time, and the 95% UPL for these detections at the facility exceed the respective groundwater standard. Therefore, a trend analysis was also performed for trichloroethene and nickel at monitor well MW-5.

In monitor well MW-5, the 95% UPL exceeds the respective groundwater standards for seven Appendix I VOCs and two inorganic constituent (benzene, 1,4-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride, trichloroethene, vinyl chloride, cobalt, and nickel). A qualitative review of the trend graphs (see **Appendix IV**) for four of the Appendix I constituents (benzene, 1,1-dichloroethane, trichloroethene, and nickel) show a trend of decreasing concentrations over time. The trend graphs for two VOCs (cis-1,2-dichloroethene and methylene chloride) and the inorganic constituent cobalt show a trend of increasing concentrations over time. A review of the time series data graphs shows no evident trend for 1,4-dichlorobenzene and vinyl chloride concentrations in well MW-5, so a Mann-Kendall and a Sen's Slope statistical trend analysis were applied to the data. **Table 7** presents the results of the Mann-Kendall and a

Sen's Slope statistical trend analyses for each compound in each well. The Mann-Kendall and the Sen's Slope analysis resulted in no evident trend for 1,4-dichlorobenzene and vinyl chloride concentrations in monitor well MW-5.

5.2.2 Compliance Monitor Well MW-6

One Appendix I inorganic compound (barium) was detected in monitor well MW-6 above its respective SWSLs during the July 2010 sampling event. However, concentrations of barium have been detected sporadically over time, and the 95% UPL for these detections at the facility does not exceed its respective groundwater standard. Statistical analyses of historical data from compliance well MW-6 indicate that the 95% UPL exceeds the respective groundwater standard for two Appendix I constituents (1,1-dichloroethane and cis-1,2-dichloroethene). A qualitative review of the time series data graphs show no evident trends for 1,1-dichloroethane or cis-1,2-dichloroethene concentrations in well MW-6, so a Mann-Kendall and a Sen's Slope statistical trend analysis were applied to the data. The Mann-Kendall and the Sen's Slope analysis resulted in no evident trends for 1,1-dichloroethane or cis-1,2-dichloroethene. Results of trend analyses are included in **Table 7**. The time series graphs for 1,1-dichloroethane and cis-1,2-dichloroethene concentrations in compliance well MW-6 are included in **Appendix IV**.

5.2.3 Compliance Monitor Well MW-7A

One Appendix I VOC (benzene) and two inorganic compounds (arsenic and barium) were detected in monitor well MW-7A above their respective SWSLs during the July 2010 sampling event. However, the concentrations of the naturally occurring metal arsenic within the in-situ soil at the facility are sufficient to influence the concentration of this metal in the groundwater sample collected from monitor well MW-7A during the July 2010 monitoring event. In addition, concentrations of barium have been detected sporadically over time, and the 95% UPL for these detections at the facility does not exceed its respective groundwater standard. Concentrations of benzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, and vinyl chloride have been detected sporadically over time, and the 95% UPLs for these detections at the facility exceed their respective groundwater standards. Therefore, trend analyses were also performed for benzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, and vinyl chloride at monitor well MW-7A.

A qualitative review of the time series data graphs show no evident trend for benzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, and vinyl chloride concentrations in well MW-7A, so a Mann-Kendall and a Sen's Slope statistical trend analysis were applied to the data. **Table 7** presents the results of the Mann-Kendall and a Sen's Slope statistical trend analyses for each compound in each well. The Mann-Kendall and the Sen's Slope analysis resulted in no evident trend for benzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, or vinyl chloride concentrations in monitor well MW-7A.

5.2.4 Compliance Monitor Well MW-12

Three Appendix I VOCs (benzene, chlorobenzene, and 1,4-dichlorobenzene) and three inorganic compounds (barium, cobalt, and zinc) were detected in monitor well MW-12 above their respective SWSLs during the July 2010 sampling event. However, concentrations of chlorobenzene and barium have been detected sporadically over time, and the 95% UPLs for these detections at the facility do not exceed their respective groundwater standards. In addition, the concentrations of the naturally occurring metal zinc within the in-situ soil at the facility are sufficient to influence the concentration of this metal in the groundwater sample collected from monitor well MW-12 during the July 2010 monitoring event. Concentrations of 1,1-dichloroethane, cis-1,2-dichloroethene, and vinyl chloride have been detected sporadically over time, and the 95% UPLs for these detections at the facility exceed their respective groundwater standards. Therefore, trend analyses were also performed for 1,1-dichloroethane, cis-1,2-dichloroethene, and vinyl chloride at monitor well MW-12.

The trend graph for 1,1-dichloroethane shows a trend of decreasing concentrations over time. A review of the time series data graphs show no evident trend for benzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, vinyl chloride, and cobalt concentrations in well MW-12, so a Mann-Kendall and a Sen's Slope statistical trend analysis were applied to the data. **Table 7** presents the results of the Mann-Kendall and a Sen's Slope statistical trend analyses for each compound in each well. The Mann-Kendall and the Sen's Slope analysis resulted in no evident trend for benzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, vinyl chloride, or cobalt concentrations in monitor well MW-12.

5.2.5 Compliance Monitor Well MW-13

Six Appendix I VOCs (benzene, chlorobenzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, trichloroethene, and vinyl chloride) and four inorganic compounds (barium, cobalt, nickel, and zinc) were detected in monitor well MW-13 above their respective SWSLs during the July 2010 sampling event. However, concentrations of chlorobenzene and barium have been detected sporadically over time, and the 95% UPLs for these detections at the facility do not exceed their respective groundwater standards. In addition, analytical data must be collected for at least four consecutive monitoring events before statistical analyses can be used to characterize a well. There is not a sufficient amount of nickel data available for monitor well MW-13 to run a trend analysis. Also, the concentrations of the naturally occurring metal zinc within the in-situ soil at the facility are sufficient to influence the concentration of this metal in the groundwater sample collected from monitor well MW-13 during the July 2010 monitoring event. Concentrations of 1,1-dichloroethane have been detected sporadically over time, and the 95% UPL for these detections at the facility exceeds its respective groundwater standard. Therefore, a trend analysis was also performed for 1,1-dichloroethane at monitor well MW-13.

The trend graphs for 1,1-dichloroethane and cis-1,2-dichloroethene show a trend of increasing concentrations over time. A review of the time series data graphs show no evident trend for benzene, 1,4-dichlorobenzene, trichloroethene, vinyl chloride, and cobalt concentrations in well MW-13, so a Mann-Kendall and a Sen's Slope statistical

trend analysis were applied to the data. **Table 7** presents the results of the Mann-Kendall and a Sen's Slope statistical trend analyses for each compound in each well. The Mann-Kendall and the Sen's Slope analysis resulted in no evident trend for benzene, 1,4-dichlorobenzene, trichloroethene, vinyl chloride, or cobalt concentrations in monitor well MW-13.

5.2.6 Compliance Monitor Well MW-14

One Appendix I inorganic compound (barium) was detected in monitor well MW-14 above its respective SWSL during the July 2010 sampling event. However, concentrations of barium have been detected sporadically over time, and the 95% UPL for these detections at the facility does not exceed its respective groundwater standard. In addition, historical data indicate that no evidence of a release from the landfill was found for the Appendix I constituents at monitor well MW-14. Therefore, no trend analyses were performed at monitor well MW-14.

5.2.7 Compliance Monitor Well MW-15

Three Appendix I VOCs (cis-1,2-dichloroethene, 1,2-dichloropropane, and vinyl chloride) and one inorganic compound (barium) were detected in monitor well MW-15 above their respective SWSLs during the July 2010 sampling event. However, concentrations of 1,2-dichloropropane and barium have been detected sporadically over time, and the 95% UPLs for these detections at the facility do not exceed their respective groundwater standards. Concentrations of 1,1-dichloroethane, trichloroethene, and cobalt have been detected sporadically over time, and the 95% UPLs for these detections at the facility exceed their respective groundwater standards. Therefore, trend analyses were also performed for 1,1-dichloroethane, trichloroethene, and cobalt at monitor well MW-15.

The trend graphs for 1,1-dichloroethane and cis-1,2-dichloroethene show a trend of decreasing concentrations over time. A review of the time series data graphs show no evident trend for benzene, trichloroethene, vinyl chloride, and cobalt concentrations in well MW-15, so a Mann-Kendall and a Sen's Slope statistical trend analysis were applied to the data. **Table 7** presents the results of the Mann-Kendall and a Sen's Slope statistical trend analyses for each compound in each well. The Mann-Kendall and the Sen's Slope analysis resulted in no evident trend for benzene, trichloroethene, vinyl chloride, or cobalt concentrations in monitor well MW-15.

5.2.8 Compliance Monitor Well MW-16

Two Appendix I inorganic compounds (arsenic and barium) were detected in monitor well MW-16 above their respective SWSLs during the July 2010 sampling event. However, concentrations of barium have been detected sporadically over time, and the 95% UPL for these detections at the facility does not exceed its respective groundwater standard. In addition, historical data indicate that no evidence of a release from the landfill was found for the Appendix I constituents at monitor well MW-16. Therefore, no trend analyses were performed at monitor well MW-16.

Time series graphs for wells MW-5, MW-6, MW-7A, MW-12, MW-13, and MW-15 are graphical representations of data trends over time and are included in **Appendix IV**.

5.3 Previous Investigations Selected Corrective Measures Remedy

Investigations relevant to the constituents detected during detection monitoring were performed to delineate the area impacted by potential constituents of concern (COCs). The findings of the investigation to delineate the potential COCs are summarized in the NES report (S&ME, June 2008). Potential COCs were further reviewed through an Alternate Source Demonstration (ASD) study (S&ME, June 2008). The ASD concluded that several inorganic COCs detected in groundwater were the result of the natural occurrence of these constituents in the native, residual soil.

Based on the NES and ASD, the Assessment of Corrective Measures (ACM) report (S&ME, June 2008) has evaluated feasible technologies to remediate COCs documented in the NES. Based on the feasibility study of the ACM, a remedy for corrective measures was selected and described in a formal Corrective Action Plan (CAP) (S&ME, June 2008). The CAP included a selection of in situ isolation combined with MNA as the remedial alternatives for impacted groundwater. The in situ isolation will minimize water exposure to buried waste limiting the release of contaminants to the groundwater and the environment utilizing an upgradient hydraulic barrier and improvements to the landfill cover and surface water drainage system.

6.0 CONCLUSIONS AND RECOMMENDATIONS

S&ME performed semiannual sampling at the Edgecombe County Landfill in Tarboro, North Carolina. During the July 2010 sampling event, groundwater elevations were calculated from water levels measured in approximately 26 points in the monitoring network described in the WQMP. Groundwater samples were collected from three background (upgradient) monitor wells and eight compliance (downgradient) monitor wells.

6.1 Summary of July 2010 Sampling Event

- Based on the water table elevations and calculated potentiometric surface, the groundwater flow direction within the surficial aquifer was estimated to be toward the north-northeast with an average hydraulic gradient of 0.0204 ft/ft. The average groundwater flow velocity for the site is approximately 8.37 ft/yr.

- Constituent concentrations of 26 Appendix I analytes were detected in one or more samples collected during the July 2010 monitoring event. Fifteen of the 26 Appendix I analytes were detected in one or more samples at concentrations equal to or exceeding their respective SWSLs. Barium, cobalt, and zinc were detected in one or more upgradient (background) samples at concentrations above their respective SWSLs.

- Nine analytes detected during the July 2010 sampling event were shown to have statistical evidence of a release from the facility, where their 95% UPL was greater than their respective groundwater standards. These analytes were: benzene, 1,4-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride, trichloroethene, vinyl chloride, cobalt, and nickel. A trend analysis of these nine constituents shows the following trends:

  - No trend was evident for benzene concentrations over time in monitor wells MW-7A, MW-12, MW-13, and MW-15. Concentrations of benzene show a trend of decreasing concentration over time in monitor well MW-5.
  - No trend was evident for 1,4-dichlorobenzene concentrations in monitor wells MW-5, MW-7A, MW-12, and MW-13.
  - No trend was evident for 1,1-dichloroethane concentrations in monitor well MW-6. Concentrations of 1,1-dichloroethane show a trend of decreasing concentration over time in monitor wells MW-5, MW-12, and MW-15. 1,1-Dichloroethane concentrations show an increasing concentration trend over time in monitor well MW-13.
  - Cis-1,2-dichloroethene concentrations show an increasing concentration trend over time in monitor wells MW-5 and MW-13 and decreasing concentration trend over time in monitor well MW-15. No trend was evident for cis-1,2-dichloroethene concentrations over time in monitor wells MW-6, MW-7A, and MW-12.

- Methylene chloride has a trend of increasing concentration over time in monitor well MW-5.
- No trend was evident for trichloroethene concentrations in monitor wells MW-13 and MW-15. Trichloroethene has a trend of decreasing concentration over time in monitor well MW-5.
- No trend was evident for vinyl chloride concentrations in monitor wells MW-5, MW-7A, MW-12, MW-13 and MW-15.
- No trend was evident for cobalt concentrations in monitor wells MW-12, MW-13 and MW-15. Cobalt concentrations show an increasing trend over time in monitor well MW-5.
- Nickel concentrations show a decreasing trend over time in monitor well MW-5.

- Thirteen Appendix I analytes were detected at concentrations exceeding their respective 2L Standards or GWPSTs including benzene, 1,4-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethene, 1,2-dichloropropane, methylene chloride, vinyl chloride, antimony, arsenic, cobalt, nickel, thallium, and vanadium. Monitor wells with one or more constituent concentrations above the standards included MW-3B, MW-4, MW-5, MW-7A, MW-12, MW-13, MW-15, and MW-16.

- Constituent detections above the 2L Standard or GWPST trigger implementing the assessment monitoring program. This monitoring event was performed in general accordance with § .1634 (d)(2)of the Solid Waste Rules since the Assessment Monitoring Program was already implemented. An Alternate Source Demonstration (ASD) study was performed, the Nature and Extent Study (NES) was prepared, the Assessment of Corrective Measures (ACM) was performed, and the Corrective Action Plan (CAP) was prepared and approved by the NCDENR. Corrective measures have been initiated with grading improvements on the landfill cap; therefore, monitoring for this event is also for compliance with § .1637 (a)(1) under Implementation of the Corrective Action Program.

- The review of geochemical and MNA parameter data in tandem with groundwater quality data indicate that reductive dechlorination is occurring under anaerobic conditions at the site.

6.2 Recommendations

The results of the July 2010 sampling event show that groundwater near the Edgecombe County Landfill has been impacted by a release of constituents from the facility. The additional assessment performed at the site as part of the NES and ACM refined the source characterization, determination of constituents-of-concern, and evaluation of corrective actions. Based on the additional findings presented in the NES and ACM, the County selected a remedy for corrective measures and submitted a CAP. The applicable sampling and analysis requirements described in the revised WQMP should be implemented during the next semiannual sampling event scheduled in January 2011. S&ME recommends that the schedule for the corrective actions be maintained, and that the corrective measures, including re-grading activities that have already been initiated,

and the design work for the hydraulic barrier and permitting activities move forward as scheduled.

According to the *Corrective Action Plan Review* letter, dated January 16, 2009, from the Solid Waste Section recommends that semiannual sampling be continued at the site for analytes on the Appendix I constituent list. Further analyses for the geochemical and MNA parameters from the sampled wells in the network will be necessary to review concentrations and to evaluate aquifer zones influenced by naturally occurring biological degradation. After the four baseline data sets of MNA parameters are performed, targeted analytes and select monitor well locations will be used to review future MNA parameters.

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*, May 2007.

Department of Environment and Natural Resources, Division of Water Quality, *15A NC Administrative Code Subchapter 2L .0200 Groundwater Quality Standards*, January 2010.

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.

Law Engineering Company, *Initial baseline Sampling of Groundwater, Edgecombe County Landfill*, October 1994.

Montgomery, John H., *Groundwater Chemicals, Second Edition Desk Reference*, CRC Press, Inc., 1996.

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

S&ME, Inc., *Alternate Source Demonstration Report, Edgecombe County Landfill*, June 10, 2008.

S&ME, Inc., *Assessment of Corrective Measures Report, Edgecombe County Landfill*, June 26, 2008.

S&ME, Inc., *Corrective Action Plan, Edgecombe County Landfill*, June 30, 2008.

S&ME, Inc., *Nature and Extent Study, Edgecombe County Landfill*, June 25, 2008.

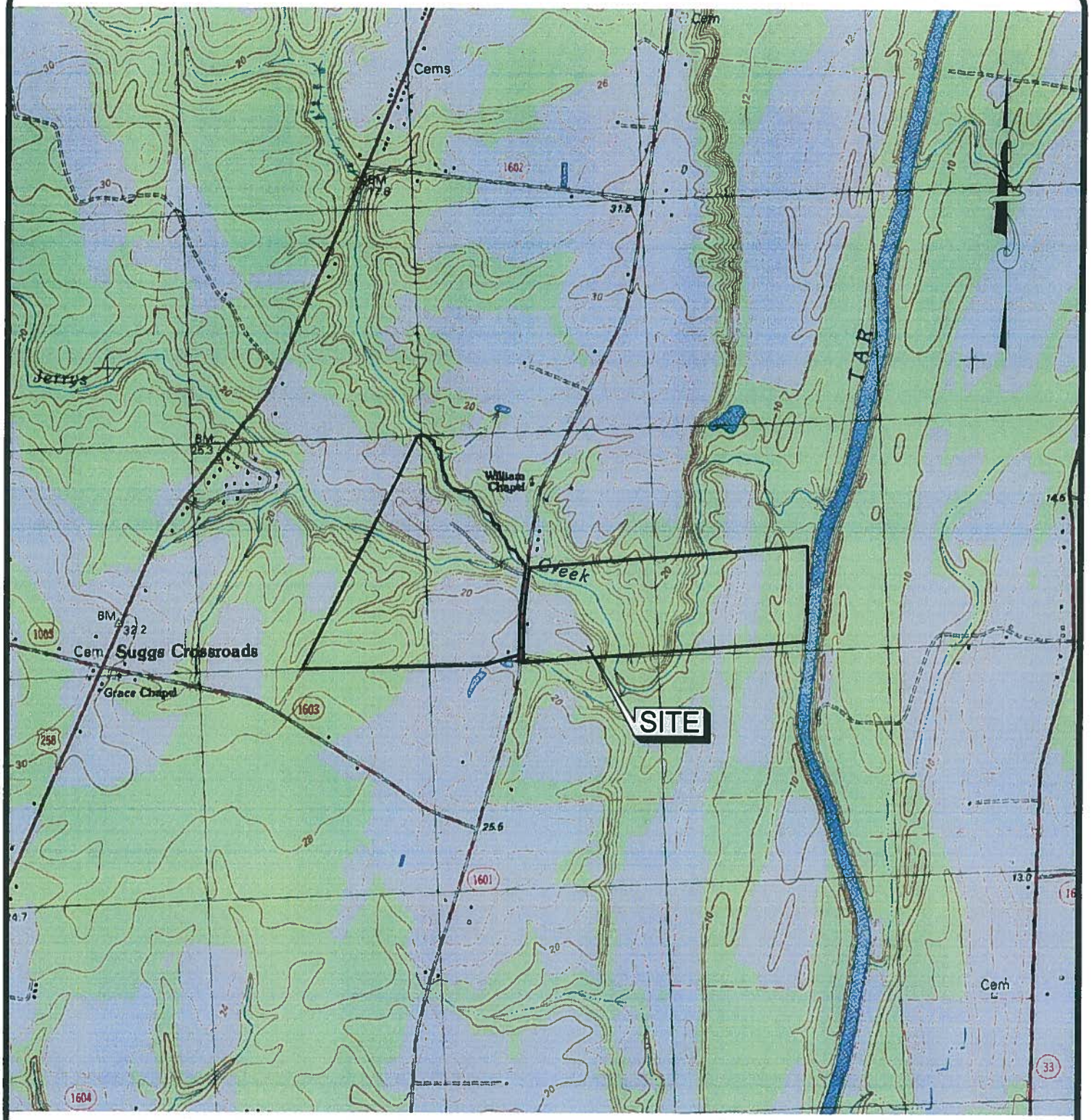
S&ME, Inc., *Water Quality Monitoring Plan, Edgecombe County Landfill, Tarboro, North Carolina*, May 10, 1994.

S&ME, Inc., *Water Quality Monitoring Plan, Edgecombe County Landfill, Tarboro, North Carolina*, June 30, 2008, Revised January 2010.

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.

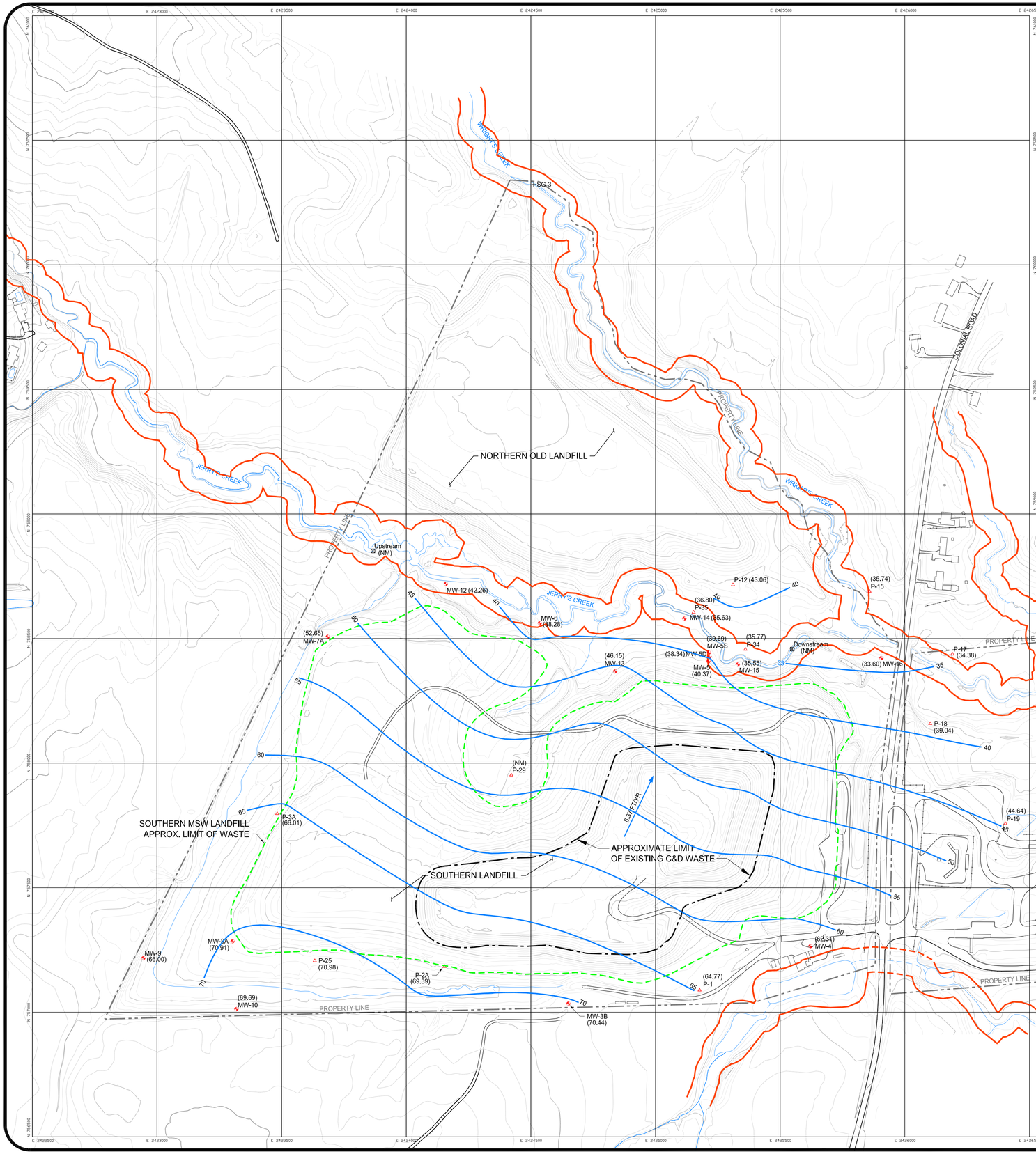
FIGURES



TOPO SOURCE: NCGS DRG
OLD SPARTA NC, DATED 1981
CONTOUR INTERVAL: 2 METERS

A-1970

SCALE: 1" = 2,000'	S&ME WWW.SMEINC.COM	VICINITY MAP	FIGURE NO.
DATE: OCT. 2010			1
DRAWN BY:		EDGECOMBE COUNTY LANDFILL TARBORO, NORTH CAROLINA	
PROJECT NO: 1054-07-238C	NC ENGINEER LICENSE #F-0176 3201 SPRING FOREST RD, RALEIGH, NC 27616		



LEGEND

- SURFACE WATER MONITORING LOCATION
- PIEZOMETER
- GROUNDWATER MONITOR WELL
- APPROXIMATE LIMIT OF CDLF UNIT
- APPROXIMATE LIMIT OF MSW LANDFILL
- PROPERTY LINE
- GROUND SURFACE ELEVATION CONTOUR - 5 & 10 FT. INTERVAL
- GROUND SURFACE ELEVATION CONTOUR - 2 FT. INTERVAL
- FENCE
- 50-FOOT STREAM BUFFER
- POTENTIOMETRIC GROUNDWATER CONTOUR
- (NM) NOT MEASURED
- (33.60) GROUNDWATER ELEVATION
- 8.37 GROUNDWATER FLOW DIRECTION AND ESTIMATED 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. GROUNDWATER MONITOR WELL, PIEZOMETER, AND METHANE GAS MONITOR WELL LOCATIONS SURVEYED BY SPRUILL & ASSOCIATES ON MAY 26, 2002, DECEMBER 23, 2004, AND SEPTEMBER 4, 2007 AND BY BATEMAN CIVIL SURVEY COMPANY, PC, ON OCTOBER 26, 2008.
3. TOPOGRAPHIC MAP UPDATED WITH GROUND SURVEY BY BATEMAN CIVIL SURVEY COMPANY, PC OF HOLLY SPRINGS, NC ON OCTOBER 26, 2008.
4. PROPERTY BOUNDARY OBTAINED FROM EDGECOMBE COUNTY GIS DEPARTMENT.

GRAPHIC SCALE

400 0 200 400

(IN FEET)

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	9.71	21.96	74.48	64.77
P-2A	14.22	27.17	83.61	69.39
P-3A	13.76	27.17	79.77	66.01
P-12	11.09	13.92	54.15	43.06
P-15	9.42	10.36	45.16	35.74
P-17	8.07	10.15	42.45	34.38
P-18	15.40	18.44	54.44	39.04
P-19	14.24	17.67	58.88	44.64
P-25	9.59	12.97	80.57	70.98
P-29	NM	13.19	65.29	NM
P-34	8.57	13.04	44.34	35.77
P-35	7.70	13.10	44.50	36.80
MW-3B	10.74	22.67	81.18	70.44
MW-4	6.64	20.18	68.95	62.31
MW-5	13.38	23.86	53.75	40.37
MW-5D	13.74	41.63	52.08	38.34
MW-5S	10.85	13.50	50.54	39.69
MW-6	8.01	19.75	46.29	38.28
MW-7A	15.78	26.94	68.43	52.65
MW-8A	11.43	22.38	82.34	70.91
MW-9	6.41	16.85	72.41	66.00
MW-10	6.09	13.57	75.78	69.69
MW-12	8.98	12.68	51.24	42.26
MW-13	8.84	23.00	54.99	46.15
MW-14	8.25	14.63	43.88	35.63
MW-15	9.32	14.27	44.87	35.55
MW-16	12.98	19.85	46.58	33.60

NOTES:
TOC = TOP OF CASING - ELEVATIONS FROM SITE SURVEY
AMSL = ABOVE MEAN SEA LEVEL
NM = NOT MEASURED
(A OR B) = REPLACEMENT WELL
D OR S = DEEP OR SHALLOW

S&ME
WWW.SMEINC.COM

NO.	DATE	DESCRIPTION	BY

GROUNDWATER POTENTIOMETRIC MAP
JULY 20, 2010

ENVIRONMENTAL COMPLIANCE MONITORING
EDGECOMBE COUNTY LANDFILL
TARBORO, NORTH CAROLINA

DRAWN BY: BTR	CHECKED BY:
DESIGNED BY:	APPROVED BY:
PROJECT NUMBER: 1054-07-238C	
SCALE: 1" = 200'	DATE: AUG. 2010
DRAWING NUMBER: D-1186	
DRAWING: 2	OF: 2

S:\PROJECTS\2007\07-238C Edgecombe - Environmental Monitoring 2010\11\CAD\D1186.dwg, D1186, 2/10/2011 1:08:09 PM, 1:1

TABLES

Table 1 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
July 20-21, 2010
S&ME Project No. 1054-07-238C

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-P-1		318	Depth To Water	9.71	ft						7/20/2010			
33-01	3301-P-1		411	Total Well Depth	21.96	ft						7/20/2010			
33-01	3301-P-1		328	TOC Elevation	74.48	ft AMSL						7/20/2010			
33-01	3301-P-1		319	Groundwater Elevation	64.77	ft AMSL						7/20/2010			
33-01	3301-P-2A		318	Depth To Water	14.22	ft						7/20/2010			
33-01	3301-P-2A		411	Total Well Depth	27.17	ft						7/20/2010			
33-01	3301-P-2A		328	TOC Elevation	83.61	ft AMSL						7/20/2010			
33-01	3301-P-2A		319	Groundwater Elevation	69.39	ft AMSL						7/20/2010			
33-01	3301-P-3A		318	Depth To Water	13.76	ft						7/20/2010			
33-01	3301-P-3A		411	Total Well Depth	27.17	ft						7/20/2010			
33-01	3301-P-3A		328	TOC Elevation	79.77	ft AMSL						7/20/2010			
33-01	3301-P-3A		319	Groundwater Elevation	66.01	ft AMSL						7/20/2010			
33-01	3301-P-12		318	Depth To Water	11.09	ft						7/20/2010			
33-01	3301-P-12		411	Total Well Depth	13.92	ft						7/20/2010			
33-01	3301-P-12		328	TOC Elevation	54.15	ft AMSL						7/20/2010			
33-01	3301-P-12		319	Groundwater Elevation	43.06	ft AMSL						7/20/2010			
33-01	3301-P-15		318	Depth To Water	9.42	ft						7/20/2010			
33-01	3301-P-15		411	Total Well Depth	10.36	ft						7/20/2010			
33-01	3301-P-15		328	TOC Elevation	45.16	ft AMSL						7/20/2010			
33-01	3301-P-15		319	Groundwater Elevation	35.74	ft AMSL						7/20/2010			
33-01	3301-P-17		318	Depth To Water	8.07	ft						7/20/2010			
33-01	3301-P-17		411	Total Well Depth	10.15	ft						7/20/2010			
33-01	3301-P-17		328	TOC Elevation	42.45	ft AMSL						7/20/2010			
33-01	3301-P-17		319	Groundwater Elevation	34.38	ft AMSL						7/20/2010			
33-01	3301-P-18		318	Depth To Water	15.40	ft						7/20/2010			
33-01	3301-P-18		411	Total Well Depth	18.44	ft						7/20/2010			
33-01	3301-P-18		328	TOC Elevation	54.44	ft AMSL						7/20/2010			
33-01	3301-P-18		319	Groundwater Elevation	39.04	ft AMSL						7/20/2010			
33-01	3301-P-19		318	Depth To Water	14.24	ft						7/20/2010			
33-01	3301-P-19		411	Total Well Depth	17.67	ft						7/20/2010			
33-01	3301-P-19		328	TOC Elevation	58.88	ft AMSL						7/20/2010			
33-01	3301-P-19		319	Groundwater Elevation	44.64	ft AMSL						7/20/2010			
33-01	3301-P-25		318	Depth To Water	9.59	ft						7/20/2010			
33-01	3301-P-25		411	Total Well Depth	12.97	ft						7/20/2010			
33-01	3301-P-25		328	TOC Elevation	80.57	ft AMSL						7/20/2010			
33-01	3301-P-25		319	Groundwater Elevation	70.98	ft AMSL						7/20/2010			
33-01	3301-P-29		318	Depth To Water	NM	ft									
33-01	3301-P-29		411	Total Well Depth	13.19	ft									
33-01	3301-P-29		328	TOC Elevation	65.29	ft AMSL									
33-01	3301-P-29		319	Groundwater Elevation	NM	ft AMSL									
33-01	3301-P-34		318	Depth To Water	8.57	ft						7/20/2010			
33-01	3301-P-34		411	Total Well Depth	13.04	ft						7/20/2010			
33-01	3301-P-34		328	TOC Elevation	44.34	ft AMSL						7/20/2010			
33-01	3301-P-34		319	Groundwater Elevation	35.77	ft AMSL						7/20/2010			
33-01	3301-P-35		318	Depth To Water	7.70	ft						7/20/2010			
33-01	3301-P-35		411	Total Well Depth	13.10	ft						7/20/2010			
33-01	3301-P-35		328	TOC Elevation	44.50	ft AMSL						7/20/2010			
33-01	3301-P-35		319	Groundwater Elevation	36.80	ft AMSL						7/20/2010			
33-01	3301-MW-3B		318	Depth To Water	10.74	ft						7/20/2010			
33-01	3301-MW-3B		411	Total Well Depth	22.67	ft						7/20/2010			
33-01	3301-MW-3B		328	TOC Elevation	81.18	ft AMSL						7/20/2010			
33-01	3301-MW-3B		319	Groundwater Elevation	70.44	ft AMSL						7/20/2010			
33-01	3301-MW-3B		320	pH	1.58	standard units						7/20/2010			
33-01	3301-MW-3B		323	Specific Conductivity	0.345	mS/cm						7/20/2010			
33-01	3301-MW-3B		325	Temperature	18.81	ºC						7/20/2010			
33-01	3301-MW-3B		330	Turbidity	18.2	NTUs						7/20/2010			
33-01	3301-MW-3B	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	75-34-3	75	1,1-Dichloroethane	0.33	ug/L	U	8260B	0.33	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	78-87-5	82	1,2-Dichloropropane	0.20	ug/L	U	8260B	0.20	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	106-46-7	71	1,4-Dichlorobenzene	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	67-64-1	3	Acetone	1.5	ug/L	U	8260B	1.5	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	6	1	7/20/2010	7/22/2010	7/28/2010	591
33-01	3301-MW-3B	7440-38-2	14	Arsenic Total	5.02	ug/L	J	6010C	2.80	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-3B	7440-39-3	15	Barium Total	127	ug/L		6010C	1.00	100	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-3B	71-43-2	16	Benzene	0.20	ug/L	U	8260B	0.20	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	7440-41-7	23	Beryllium Total	0.709	ug/L	J	6010C	0.100	1	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-3B	SW316	316	Biochemical Oxygen Demand	2000	ug/L	U	SM 5210B	2000	NE	1	7/20/2010	7/22/2010	7/22/2010	591
33-01	3301-MW-3B	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	7440-43-9	34	Cadmium Total	0.659	ug/L	J	6010C	0.360	1	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-3B	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	SW317	317	Chemical Oxygen Demand	9600	ug/L	J	SM 5220D	2800	NE	1	7/20/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-3B	SW301	301	Chloride	44000	ug/L		300.0	18	NE	1	7/20/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-3B	108-90-7	39	Chlorobenzene	0.27	ug/L	U	8260B	0.27	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	75-00-3	41	Chloroethane	0.30	ug/L	U	8260B	0.30	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-3B	156-59-2	78	cis-1,2-Dichloroethene	0.36	ug/L	U	8260B	0.36	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	7440-48-4	53	Cobalt Total	18.1	ug/L		6010C	1.10	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-3B	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-3B	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	7439-89-6	340	Iron Total	971	ug/L		6010C	22.0	300	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-3B	7439-92-1	131	Lead Total	2.06	ug/L	J	6010C	1.90	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-3B	7439-96-5	342	Manganese Total	44.6	ug/L	J	6010C	1.10	50	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-3B	7439-97-6	132	Mercury Total	0.170	ug/L	U	7470A	0.170	0.2	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	7440-02-0	152	Nickel Total	17.7	ug/L	J	6010C	1.80	50	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-3B	SW303	303	Nitrate as N	160	ug/L	J	353.2	25	10000	1	7/20/2010	7/29/2010	7/29/2010	591
33-01	3301-MW-3B	NA	419	Nitrate/Nitrite as N	160	ug/L		353.2	25	NE	1	7/20/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-3B	SW304	304	Nitrite as N	5.9	ug/L	JB	353.2	5.6	1000	1	7/20/2010	7/22/2010	7/22/2010	591
33-01	3301-MW-3B	7782-49-2	183	Selenium Total	1.32	ug/L	J	6020A	0.830	10	1	7/20/2010	7/22/2010	7/28/2010	591
33-01	3301-MW-3B	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-3B	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	14808-79-8	315	Sulfate as SO4	61000	ug/L	J	300.0	120	250000	1	7/20/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-3B	18496-25-8	187	Sulfide	31	ug/L	U	SM18 4500-S D	31	1000	1	7/20/2010	7/26/2010	7/26/2010	591

Table 1 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
July 20-21, 2010
S&ME Project No. 1054-07-238C

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-MW-3B	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	7440-28-0	194	Thallium Total	0.239	ug/L	J	6020A	0.110	5.5	1	7/20/2010	7/22/2010	7/28/2010	591
33-01	3301-MW-3B	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	SW337	337	Total Alkalinity	8000	ug/L	U	310.2	8000	NE	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	SW311	311	Total Dissolved Solids	180000	ug/L		SM 2540C	10000	NE	1	7/20/2010	7/25/2010	7/25/2010	591
33-01	3301-MW-3B	E-10195	357	Total Organic Carbon	1900	ug/L		SM18 5310B	320	NE	1	7/20/2010	7/29/2010	7/29/2010	424
33-01	3301-MW-3B	156-60-5	79	trans-1,2-Dichloroethene	0.34	ug/L	U	8260B	0.34	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	79-01-6	201	Trichloroethene	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	7440-62-2	209	Vanadium Total	3.51	ug/L	J	6010C	1.40	25	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-3B	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	75-01-4	211	Vinyl chloride	0.30	ug/L	U	8260B	0.30	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-3B	7440-66-6	213	Zinc Total	31.4	ug/L		6010C	3.80	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-4		318	Depth To Water	6.64	ft						7/20/2010			
33-01	3301-MW-4		411	Total Well Depth	20.18	ft						7/20/2010			
33-01	3301-MW-4		328	TOC Elevation	68.95	ft AMSL						7/20/2010			
33-01	3301-MW-4		319	Groundwater Elevation	62.31	ft AMSL						7/20/2010			
33-01	3301-MW-4		320	pH	4.47	standard units						7/20/2010			
33-01	3301-MW-4		323	Specific Conductivity	0.318	mS/cm						7/20/2010			
33-01	3301-MW-4		325	Temperature	25.43	ºC						7/20/2010			
33-01	3301-MW-4		330	Turbidity	10.2	NTUs						7/20/2010			
33-01	3301-MW-4	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	75-34-3	75	1,1-Dichloroethane	0.33	ug/L	U	8260B	0.33	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	78-87-5	82	1,2-Dichloropropane	0.20	ug/L	U	8260B	0.20	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	106-46-7	71	1,4-Dichlorobenzene	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	64-19-7	416	Acetic Acid	83	ug/L	U	VGC-13	83	NE	1	7/20/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-4	67-64-1	3	Acetone	1.5	ug/L	U	8260B	1.5	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	7440-36-0	13	Antimony Total	1.69	ug/L	J	6020A	0.220	6	1	7/20/2010	7/22/2010	7/28/2010	591
33-01	3301-MW-4	7440-38-2	14	Arsenic Total	2.80	ug/L	U	6010C	2.80	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-4	7440-39-3	15	Barium Total	46.6	ug/L	J	6010C	1.00	100	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-4	71-43-2	16	Benzene	0.20	ug/L	U	8260B	0.20	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-4	SW316	316	Biochemical Oxygen Demand	2000	ug/L	U	SM 5210B	2000	NE	1	7/20/2010	7/22/2010	7/22/2010	591
33-01	3301-MW-4	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	107-92-6	418	Butyric Acid	160	ug/L	U	VGC-13	160	NE	1	7/20/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-4	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-4	124-38-9	413	Carbon dioxide	85900	ug/L		RSK-175	780	NE	1	7/20/2010	7/27/2010	7/27/2010	442
33-01	3301-MW-4	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	SW317	317	Chemical Oxygen Demand	42000	ug/L		SM 5220D	2800	NE	1	7/20/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-4	SW301	301	Chloride	10000	ug/L		300.0	18	NE	1	7/20/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-4	108-90-7	39	Chlorobenzene	0.27	ug/L	U	8260B	0.27	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	75-00-3	41	Chloroethane	0.30	ug/L	U	8260B	0.30	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-4	156-59-2	78	cis-1,2-Dichloroethene	0.36	ug/L	U	8260B	0.36	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	7440-48-4	53	Cobalt Total	1.10	ug/L	U	6010C	1.10	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-4	7440-50-8	54	Copper Total	5.33	ug/L	J	6010C	1.60	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-4	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	74-84-0	331	Ethane	0.4	ug/L	U	RSK-175	0.4	NE	1	7/20/2010	7/27/2010	7/27/2010	442
33-01	3301-MW-4	87701-65-3	332	Ethene	0.4	ug/L	U	RSK-175	0.4	NE	1	7/20/2010	7/27/2010	7/27/2010	442
33-01	3301-MW-4	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4			Hexanoic Acid	230	ug/L	U	VGC-13	230		1	7/20/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-4			HIBA (2-Hydroxyisobutyric Acid)	160	ug/L	U	VGC-13	160		1	7/20/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-4	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	7439-89-6	340	Iron Total	133	ug/L	J	6010C	22.0	300	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-4			iso-Hexanoic Acid	210	ug/L	U	VGC-13	210		1	7/20/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-4			iso-Pentanoic Acid	260	ug/L	U	VGC-13	260		1	7/20/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-4	50-21-5	415	Lactic Acid	440	ug/L	U	VGC-13	440	NE	1	7/20/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-4	7439-92-1	131	Lead Total	1.90	ug/L	U	6010C	1.90	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-4	7439-96-5	342	Manganese Total	11.5	ug/L	J	6010C	1.10	50	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-4	7439-97-6	132	Mercury Total	0.170	ug/L	U	7470A	0.170	0.2	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	74-82-8	333	Methane	3	ug/L		RSK-175	0.2	NE	1	7/20/2010	7/27/2010	7/27/2010	442
33-01	3301-MW-4	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	7440-02-0	152	Nickel Total	1.80	ug/L	U	6010C	1.80	50	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-4	SW303	303	Nitrate as N	710	ug/L	J	353.2	25	10000	1	7/20/2010	7/29/2010	7/29/2010	591
33-01	3301-MW-4	NA	419	Nitrate/Nitrite as N	710	ug/L		353.2	25	NE	1	7/20/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-4	SW304	304	Nitrite as N	5.6	ug/L	U	353.2	5.6	1000	1	7/20/2010	7/22/2010	7/22/2010	591
33-01	3301-MW-4			Pentanoic Acid	270	ug/L	U	VGC-13	270		1	7/20/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-4	79-09-4	417	Propionic Acid	180	ug/L	U	VGC-13	180	NE	1	7/20/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-4	127-17-3	414	Pyruvic Acid	140	ug/L	U	VGC-13	140	NE	1	7/20/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-4	7782-49-2	183	Selenium Total	0.830	ug/L	U	6020A	0.830	10	1	7/20/2010	7/22/2010	7/28/2010	591
33-01	3301-MW-4	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-4	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	14808-79-8	315	Sulfate as SO4	64000	ug/L	J	300.0	120	250000	1	7/20/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-4	18496-25-8	187	Sulfide	31	ug/L	U	SM18 4500-S D	31	1000	1	7/20/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-4	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	5.5	1	7/20/2010	7/22/2010	7/28/2010	591
33-01	3301-MW-4	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	SW337	337	Total Alkalinity	55000	ug/L		310.2	8000	NE	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	SW311	311	Total Dissolved Solids	230000	ug/L		SM 2540C	10000	NE	1	7/20/2010	7/25/2010	7/25/2010	591
33-01	3301-MW-4	E-10195	357	Total Organic Carbon	14000	ug/L		SM18 5310B	320	NE	1	7/20/2010	7/29/2010	7/29/2010	424
33-01	3301-MW-4	156-60-5	79	trans-1,2-Dichloroethene	0.34	ug/L	U	8260B	0.34	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	79-01-6	201	Trichloroethene	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	7440-62-2	209	Vanadium Total	1.47	ug/L	J	6010C	1.40	25	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-4	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	75-01-4	211	Vinyl chloride	0.30	ug/L	U	8260B	0.30	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-4	7440-66-6	213	Zinc Total	3.80	ug/L	U	6010C	3.80	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-4			Hydrogen	2.20	nM		AM20GAX	0.600			7/20/2010		8/3/2010	
33-01	3301-MW-5		318	Depth To Water	13.38	ft						7/20/2010			
33-01	3301-MW-5		411	Total Well Depth	23.86	ft						7/20/2010			

Table 1 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
July 20-21, 2010
S&ME Project No. 1054-07-238C

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-MW-5		328	TOC Elevation	53.75	ft AMSL						7/20/2010			
33-01	3301-MW-5		319	Groundwater Elevation	40.37	ft AMSL						7/20/2010			
33-01	3301-MW-5		320	pH	4.30	standard units						7/21/2010			
33-01	3301-MW-5		323	Specific Conductivity	1.129	mS/cm						7/21/2010			
33-01	3301-MW-5		325	Temperature	20.21	ºC						7/21/2010			
33-01	3301-MW-5		330	Turbidity	20.1	NTUs						7/21/2010			
33-01	3301-MW-5	630-20-6	190	1,1,1,2-Tetrachloroethane	4.0	ug/L	UD	8260B	4.0	5	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	71-55-6	200	1,1,1-Trichloroethane	2.7	ug/L	UD	8260B	2.7	1	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	79-34-5	191	1,1,2,2-Tetrachloroethane	3.3	ug/L	UD	8260B	3.3	3	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	79-00-5	202	1,1,2-Trichloroethane	3.7	ug/L	UD	8260B	3.7	1	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	75-34-3	75	1,1-Dichloroethane	8.6	ug/L	JD	8260B	3.3	5	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	75-35-4	77	1,1-Dichloroethene	2.4	ug/L	UD	8260B	2.4	5	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	96-18-4	206	1,2,3-Trichloropropane	5.5	ug/L	UD	8260B	5.5	1	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	96-12-8	67	1,2-Dibromo-3-chloropropane	4.8	ug/L	UD	8260B	4.8	13	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	106-93-4	68	1,2-Dibromoethane	4.2	ug/L	UD	8260B	4.2	1	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	95-50-1	69	1,2-Dichlorobenzene	2.7	ug/L	UD	8260B	2.7	5	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	107-06-2	76	1,2-Dichloroethane	6.5	ug/L	UD	8260B	6.5	1	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	78-87-5	82	1,2-Dichloropropane	2.0	ug/L	UD	8260B	2.0	1	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	106-46-7	71	1,4-Dichlorobenzene	9.4	ug/L	JD	8260B	3.8	1	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	78-93-3	141	2-Butanone	10	ug/L	UD	8260B	10	100	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	591-78-6	124	2-Hexanone	6.9	ug/L	UD	8260B	6.9	50	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	108-10-1	147	4-Methyl-2-pentanone	11	ug/L	UD	8260B	11	100	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	64-19-7	416	Acetic Acid	83	ug/L	U	VGC-13	83	NE	1	7/21/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-5	67-64-1	3	Acetone	15	ug/L	UD	8260B	15	100	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	107-13-1	8	Acrylonitrile	21	ug/L	UD	8260B	21	200	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	6	1	7/21/2010	7/23/2010	7/28/2010	591
33-01	3301-MW-5	7440-38-2	14	Arsenic Total	29.4	ug/L	B	6010C	2.80	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-5	7440-39-3	15	Barium Total	158	ug/L		6010C	1.00	100	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-5	71-43-2	16	Benzene	5.1	ug/L	JD	8260B	2.0	1	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-5	SW316	316	Biochemical Oxygen Demand	19000	ug/L		SM 5210B	2000	NE	1	7/21/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-5	74-97-5	28	Bromochloromethane	4.2	ug/L	UD	8260B	4.2	3	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	75-27-4	29	Bromodichloromethane	3.7	ug/L	UD	8260B	3.7	1	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	75-25-2	30	Bromoform	7.1	ug/L	UD	8260B	7.1	3	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	74-83-9	136	Bromomethane	4.9	ug/L	UD	8260B	4.9	10	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	107-92-6	418	Butyric Acid	160	ug/L	U	VGC-13	160	NE	1	7/21/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-5	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-5	124-38-9	413	Carbon dioxide	467000	ug/L	D	RSK-175	7800	NE	10	7/21/2010	7/27/2010	7/27/2010	442
33-01	3301-MW-5	75-15-0	35	Carbon disulfide	5.4	ug/L	UD	8260B	5.4	100	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	56-23-5	36	Carbon tetrachloride	3.8	ug/L	UD	8260B	3.8	1	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	SW317	317	Chemical Oxygen Demand	70000	ug/L		SM 5220D	2800	NE	1	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-MW-5	SW301	301	Chloride	13000	ug/L		300.0	18	NE	1	7/21/2010	7/27/2010	7/27/2010	591
33-01	3301-MW-5	108-90-7	39	Chlorobenzene	16	ug/L	D	8260B	2.7	3	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	75-00-3	41	Chloroethane	3.0	ug/L	UD	8260B	3.0	10	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	67-66-3	44	Chloroform	2.0	ug/L	UD	8260B	2.0	5	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	74-87-3	137	Chloromethane	3.4	ug/L	UD	8260B	3.4	1	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-5	156-59-2	78	cis-1,2-Dichloroethene	620	ug/L	D	8260B	3.6	5	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	10061-01-5	86	cis-1,3-Dichloropropene	2.8	ug/L	UD	8260B	2.8	1	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	7440-48-4	53	Cobalt Total	143	ug/L		6010C	1.10	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-5	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-5	124-48-1	66	Dibromochloromethane	3.2	ug/L	UD	8260B	3.2	3	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	74-95-3	139	Dibromomethane	3.7	ug/L	UD	8260B	3.7	10	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	74-84-0	331	Ethane	0.4	ug/L	U	RSK-175	0.4	NE	1	7/21/2010	7/27/2010	7/27/2010	442
33-01	3301-MW-5	87701-65-3	332	Ethene	2	ug/L		RSK-175	0.4	NE	1	7/21/2010	7/27/2010	7/27/2010	442
33-01	3301-MW-5	100-41-4	110	Ethylbenzene	2.0	ug/L	UD	8260B	2.0	1	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5			Hexanoic Acid	230	ug/L	U	VGC-13	230		1	7/21/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-5			HIBA (2-Hydroxyisobutyric Acid)	160	ug/L	U	VGC-13	160		1	7/21/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-5	74-88-4	142	Iodomethane	5.2	ug/L	UD	8260B	5.2	10	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	7439-89-6	340	Iron Total	118000	ug/L		6010C	22.0	300	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-5			iso-Hexanoic Acid	210	ug/L	U	VGC-13	210		1	7/21/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-5			iso-Pentanoic Acid	260	ug/L	U	VGC-13	260		1	7/21/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-5	50-21-5	415	Lactic Acid	440	ug/L	U	VGC-13	440	NE	1	7/21/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-5	7439-92-1	131	Lead Total	11.4	ug/L		6010C	1.90	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-5	7439-96-5	342	Manganese Total	33300	ug/L	D	6010C	5.50	50	5	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-5	7439-97-6	132	Mercury Total	0.170	ug/L	U	7470A	0.170	0.2	1	7/21/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-5	74-82-8	333	Methane	290	ug/L		RSK-175	0.2	NE	1	7/21/2010	7/27/2010	7/27/2010	442
33-01	3301-MW-5	75-09-2	140	Methylene chloride	16	ug/L	BD	8260B	5.3	1	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	7440-02-0	152	Nickel Total	35.7	ug/L	J	6010C	1.80	50	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-5	SW303	303	Nitrate as N	67	ug/L	J	353.2	25	10000	1	7/21/2010	7/29/2010	7/29/2010	591
33-01	3301-MW-5	NA	419	Nitrate/Nitrite as N	67	ug/L	J	353.2	25	NE	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-5	SW304	304	Nitrite as N	5.6	ug/L	U	353.2	5.6	1000	1	7/21/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-5			Pentanoic Acid	270	ug/L	U	VGC-13	270		1	7/21/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-5	79-09-4	417	Propionic Acid	180	ug/L	U	VGC-13	180	NE	1	7/21/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-5	127-17-3	414	Pyruvic Acid	140	ug/L	U	VGC-13	140	NE	1	7/21/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-5	7782-49-2	183	Selenium Total	1.01	ug/L	J	6020A	0.830	10	1	7/21/2010	7/23/2010	7/28/2010	591
33-01	3301-MW-5	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-5	100-42-5	186	Styrene	2.6	ug/L	UD	8260B	2.6	1	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	14808-79-8	315	Sulfate as SO4	42000	ug/L	J	300.0	120	250000	1	7/21/2010	7/27/2010	7/27/2010	591
33-01	3301-MW-5	18496-25-8	187	Sulfide	31	ug/L	U	SM18 4500-S D	31	1000	1	7/21/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-5	127-18-4	192	Tetrachloroethene	3.6	ug/L	UD	8260B	3.6	1	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	5.5	1	7/21/2010	7/23/2010	7/28/2010	591
33-01	3301-MW-5	108-88-3	196	Toluene	2.7	ug/L	UD	8260B	2.7	1	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	SW337	337	Total Alkalinity	590000	ug/L	D	310.2	32000	NE	4	7/21/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-5	SW311	311	Total Dissolved Solids	580000	ug/L		SM 2540C	10000	NE	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-5	E-10195	357	Total Organic Carbon	6100	ug/L		SM18 5310B	320	NE	1	7/21/2010	7/28/2010	7/28/2010	424
33-01	3301-MW-5	156-60-5	79	trans-1,2-Dichloroethene	4.0	ug/L	JD	8260B	3.4	5	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	10061-02-6	87	trans-1,3-Dichloropropene	3.8	ug/L	UD	8260B	3.8	1	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	110-57-6	73	trans-1,4-Dichloro-2-butene	5.4	ug/L	UD	8260B	5.4	100	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	79-01-6	201	Trichloroethene	3.8	ug/L	UD	8260B	3.8	1	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	75-69-4	203	Trichlorofluoromethane	2.8	ug/L	UD	8260B	2.8	1	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	7440-62-2	209	Vanadium Total	1.43	ug/L	J	6010C	1.40	25	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-5	108-05-4	210	Vinyl acetate	9.8	ug/L	UD	8260B	9.8	50	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	75-01-4	211	Vinyl chloride	30	ug/L	D	8260B	3.0	1	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	1330-20-7	346	Xylenes (Total)	4.0	ug/L	UD	8260B	4.0	5	10	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-5	7440-66-6	213	Zinc Total	54.2	ug/L		6010C	3.80	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-5			Hydrogen	1.90	nM		AM20GAX	0.600			7/21/2010		8/3/2010	
33-01	3301-Duplicate	630-20-6	190	1,1,1,2-Tetrachloroethane	4.0	ug/L	UD	8260B	4.0	5	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	71-55-6	200	1,1,1-Trichloroethane	2.7	ug/L	UD	8260B	2.7	1	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	79-34-5	191	1,1,2,2-Tetrachloroethane	3.3	ug/L	UD	8260B	3.3	3	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	79-00-5	202	1,1,2-Trichloroethane	3.7	ug/L	UD	8260B	3.7	1	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	75-34-3	75	1,1-Dichloroethane	9.7	ug/L	JD	8260B	3.3	5	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	75-35-4	77	1,1-Dichloroethene	2.4	ug/L	UD	8260B	2.4	5	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	96-18-4	206	1,2,3-Trichloropropane	5.5	ug/L	UD	8260B	5.5	1	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	96-12-8	67	1,2-Dibromo-3-chloropropane	4.8	ug/L	UD	8260B	4.8	13	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	106-93-4	68	1,2-Dibromoethane	4.2	ug/L	UD	8260B	4.2	1	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	95-50-1	69	1,2-Dichlorobenzene	2.7	ug/L	UD	8260B	2.7	5	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	107-06-2	76	1,2-Dichloroethane	6.5	ug/L	UD	8260B	6.5	1	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	78-87-5	82	1,2-Dichloropropane	2.0	ug/L	UD	8260B	2.0	1	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	106-46-7	71	1,4-Dichlorobenzene	3.8	ug/L	UD	8260B	3.8	1	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	78-93-3	141	2-Butanone	10	ug/L	UD	8260B	10	100	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	591-78-6	124	2-Hexanone	6.9	ug/L	UD	8260B	6.9	50	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	108-10-1	147	4-Methyl-2-pentanone	11	ug/L	UD	8260B	11	100	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	67-64-1	3	Acetone	15	ug/L	UD	8260B	15	100	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	107-13-1	8	Acrylonitrile	21	ug/L	UD	8260B	21	200	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	6	1	7/21/2010	7/23/2010	7/28/2010	591
33-01	3301-Duplicate	7440-38-2	14	Arsenic Total	29.7	ug/L	B	6010C	2.80	10	1	7/21/2010	7/23/2010	7/29/2010	591

Table 1 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
July 20-21, 2010
S&ME Project No. 1054-07-238C

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-Duplicate	7440-39-3	15	Barium Total	149	ug/L		6010C	1.00	100	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-Duplicate	71-43-2	16	Benzene	5.6	ug/L	JD	8260B	2.0	1	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-Duplicate	74-97-5	28	Bromochloromethane	4.2	ug/L	UD	8260B	4.2	3	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	75-27-4	29	Bromodichloromethane	3.7	ug/L	UD	8260B	3.7	1	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	75-25-2	30	Bromoform	7.1	ug/L	UD	8260B	7.1	3	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	74-83-9	136	Bromomethane	4.9	ug/L	UD	8260B	4.9	10	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-Duplicate	75-15-0	35	Carbon disulfide	5.4	ug/L	UD	8260B	5.4	100	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	56-23-5	36	Carbon tetrachloride	3.8	ug/L	UD	8260B	3.8	1	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	108-90-7	39	Chlorobenzene	16	ug/L	D	8260B	2.7	3	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	75-00-3	41	Chloroethane	3.0	ug/L	UD	8260B	3.0	10	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	67-66-3	44	Chloroform	2.0	ug/L	UD	8260B	2.0	5	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	74-87-3	137	Chloromethane	3.4	ug/L	UD	8260B	3.4	1	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-Duplicate	156-59-2	78	cis-1,2-Dichloroethene	610	ug/L	D	8260B	3.6	5	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	10061-01-5	86	cis-1,3-Dichloropropene	2.8	ug/L	UD	8260B	2.8	1	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	7440-48-4	53	Cobalt Total	137	ug/L		6010C	1.10	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-Duplicate	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-Duplicate	124-48-1	66	Dibromochloromethane	3.2	ug/L	UD	8260B	3.2	3	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	74-95-3	139	Dibromomethane	3.7	ug/L	UD	8260B	3.7	10	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	100-41-4	110	Ethylbenzene	2.0	ug/L	UD	8260B	2.0	1	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	74-88-4	142	Iodomethane	5.2	ug/L	UD	8260B	5.2	10	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	7439-92-1	131	Lead Total	9.92	ug/L	J	6010C	1.90	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-Duplicate	75-09-2	140	Methylene chloride	5.3	ug/L	UD	8260B	5.3	1	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	7440-02-0	152	Nickel Total	33.5	ug/L	J	6010C	1.80	50	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-Duplicate	7782-49-2	183	Selenium Total	0.830	ug/L	U	6020A	0.830	10	1	7/21/2010	7/23/2010	7/28/2010	591
33-01	3301-Duplicate	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-Duplicate	100-42-5	186	Styrene	2.6	ug/L	UD	8260B	2.6	1	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	127-18-4	192	Tetrachloroethene	3.6	ug/L	UD	8260B	3.6	1	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	5.5	1	7/21/2010	7/23/2010	7/28/2010	591
33-01	3301-Duplicate	108-88-3	196	Toluene	2.7	ug/L	UD	8260B	2.7	1	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	156-60-5	79	trans-1,2-Dichloroethene	3.4	ug/L	UD	8260B	3.4	5	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	10061-02-6	87	trans-1,3-Dichloropropene	3.8	ug/L	UD	8260B	3.8	1	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	110-57-6	73	trans-1,4-Dichloro-2-butene	5.4	ug/L	UD	8260B	5.4	100	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	79-01-6	201	Trichloroethene	3.8	ug/L	UD	8260B	3.8	1	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	75-69-4	203	Trichlorofluoromethane	2.8	ug/L	UD	8260B	2.8	1	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	25	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-Duplicate	108-05-4	210	Vinyl acetate	9.8	ug/L	UD	8260B	9.8	50	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	75-01-4	211	Vinyl chloride	34	ug/L	D	8260B	3.0	1	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	1330-20-7	346	Xylenes (Total)	4.0	ug/L	UD	8260B	4.0	5	10	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-Duplicate	7440-66-6	213	Zinc Total	51.6	ug/L		6010C	3.80	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-5D		318	Depth To Water	13.74	ft						7/20/2010			
33-01	3301-MW-5D		411	Total Well Depth	41.63	ft						7/20/2010			
33-01	3301-MW-5D		328	TOC Elevation	52.08	ft AMSL						7/20/2010			
33-01	3301-MW-5D		319	Groundwater Elevation	38.34	ft AMSL						7/20/2010			
33-01	3301-MW-5S		318	Depth To Water	10.85	ft						7/20/2010			
33-01	3301-MW-5S		411	Total Well Depth	13.50	ft						7/20/2010			
33-01	3301-MW-5S		328	TOC Elevation	50.54	ft AMSL						7/20/2010			
33-01	3301-MW-5S		319	Groundwater Elevation	39.69	ft AMSL						7/20/2010			
33-01	3301-MW-6		318	Depth To Water	8.01	ft.						7/20/2010			
33-01	3301-MW-6		411	Total Well Depth	19.75	ft.						7/20/2010			
33-01	3301-MW-6		328	TOC Elevation	46.29	ft AMSL						7/20/2010			
33-01	3301-MW-6		319	Groundwater Elevation	38.28	ft AMSL						7/20/2010			
33-01	3301-MW-6		320	pH	3.61	standard units						7/20/2010			
33-01	3301-MW-6		323	Specific Conductivity	0.488	mS/cm						7/20/2010			
33-01	3301-MW-6		325	Temperature	21.64	ºC						7/20/2010			
33-01	3301-MW-6		330	Turbidity	12.4	NTUs						7/20/2010			
33-01	3301-MW-6	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	75-34-3	75	1,1-Dichloroethane	0.46	ug/L	J	8260B	0.33	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	78-87-5	82	1,2-Dichloropropane	0.20	ug/L	U	8260B	0.20	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	106-46-7	71	1,4-Dichlorobenzene	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	67-64-1	3	Acetone	1.5	ug/L	U	8260B	1.5	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	6	1	7/20/2010	7/22/2010	7/28/2010	591
33-01	3301-MW-6	7440-38-2	14	Arsenic Total	2.80	ug/L	U	6010C	2.80	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-6	7440-39-3	15	Barium Total	196	ug/L		6010C	1.00	100	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-6	71-43-2	16	Benzene	0.20	ug/L	U	8260B	0.20	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-6	SW316	316	Biochemical Oxygen Demand	2000	ug/L	U	SM 5210B	2000	NE	1	7/20/2010	7/22/2010	7/22/2010	591
33-01	3301-MW-6	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-6	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	SW317	317	Chemical Oxygen Demand	36000	ug/L		SM 5220D	2800	NE	1	7/20/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-6	SW301	301	Chloride	46000	ug/L		300.0	18	NE	1	7/20/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-6	108-90-7	39	Chlorobenzene	0.27	ug/L	U	8260B	0.27	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	75-00-3	41	Chloroethane	0.30	ug/L	U	8260B	0.30	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-6	156-59-2	78	cis-1,2-Dichloroethene	0.67	ug/L	J	8260B	0.36	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	7440-48-4	53	Cobalt Total	1.56	ug/L	J	6010C	1.10	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-6	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-6	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	7439-89-6	340	Iron Total	13800	ug/L		6010C	22.0	300	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-6	7439-92-1	131	Lead Total	1.90	ug/L	U	6010C	1.90	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-6	7439-96-5	342	Manganese Total	177	ug/L		6010C	1.10	50	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-6	7439-97-6	132	Mercury Total	0.170	ug/L	U	7470A	0.170	0.2	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	7440-02-0	152	Nickel Total	1.80	ug/L	U	6010C	1.80	50	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-6	SW303	303	Nitrate as N	25	ug/L	U	353.2	25	10000	1	7/20/2010	7/29/2010	7/29/2010	591
33-01	3301-MW-6	NA	419	Nitrate/Nitrite as N	25	ug/L	U	353.2	25	NE	1	7/20/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-6	SW304	304	Nitrite as N	5.6	ug/L	U	353.2	5.6	1000	1	7/20/2010	7/22/2010	7/22/2010	591
33-01	3301-MW-6	7782-49-2	183	Selenium Total	2.10	ug/L	J	6020A	0.830	10	1	7/20/2010	7/22/2010	7/28/2010	591
33-01	3301-MW-6	7440-22-4	184	Silver Total	2.00	ug/L	J	6010C	1.90	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-6	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	14808-79-8	315	Sulfate as SO4	12000	ug/L	J	300.0	120	250000	1	7/20/2010	7/26/2010	7/26/2010	591

Table 1 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
July 20-21, 2010
S&ME Project No. 1054-07-238C

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-MW-6	18496-25-8	187	Sulfide	73	ug/L	J	SM18 4500-S D	31	1000	1	7/20/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-6	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	5.5	1	7/20/2010	7/22/2010	7/28/2010	591
33-01	3301-MW-6	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	SW337	337	Total Alkalinity	150000	ug/L		310.2	8000	NE	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	SW311	311	Total Dissolved Solids	320000	ug/L		SM 2540C	10000	NE	1	7/20/2010	7/25/2010	7/25/2010	591
33-01	3301-MW-6	E-10195	357	Total Organic Carbon	8100	ug/L		SM18 5310B	320	NE	1	7/20/2010	7/29/2010	7/29/2010	424
33-01	3301-MW-6	156-60-5	79	trans-1,2-Dichloroethene	0.34	ug/L	U	8260B	0.34	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	79-01-6	201	Trichloroethene	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	7440-62-2	209	Vanadium Total	2.25	ug/L	J	6010C	1.40	25	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-6	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	75-01-4	211	Vinyl chloride	0.30	ug/L	U	8260B	0.30	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-6	7440-66-6	213	Zinc Total	3.80	ug/L	U	6010C	3.80	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-7A		318	Depth To Water	15.78	ft						7/20/2010			
33-01	3301-MW-7A		411	Total Well Depth	26.94	ft						7/20/2010			
33-01	3301-MW-7A		328	TOC Elevation	68.43	ft AMSL						7/20/2010			
33-01	3301-MW-7A		319	Groundwater Elevation	52.65	ft AMSL						7/20/2010			
33-01	3301-MW-7A		320	pH	5.39	standard units						7/21/2010			
33-01	3301-MW-7A		323	Specific Conductivity	0.821	mS/cm						7/21/2010			
33-01	3301-MW-7A		325	Temperature	21.76	ºC						7/21/2010			
33-01	3301-MW-7A		330	Turbidity	12.2	NTUs						7/21/2010			
33-01	3301-MW-7A	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	75-34-3	75	1,1-Dichloroethane	0.33	ug/L	U	8260B	0.33	5	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	78-87-5	82	1,2-Dichloropropane	0.20	ug/L	U	8260B	0.20	1	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	106-46-7	71	1,4-Dichlorobenzene	0.62	ug/L	J	8260B	0.38	1	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	67-64-1	3	Acetone	1.5	ug/L	U	8260B	1.5	100	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	6	1	7/21/2010	7/23/2010	7/28/2010	591
33-01	3301-MW-7A	7440-38-2	14	Arsenic Total	51.5	ug/L	B	6010C	2.80	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-7A	7440-39-3	15	Barium Total	284	ug/L		6010C	1.00	100	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-7A	71-43-2	16	Benzene	1.4	ug/L		8260B	0.20	1	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	7440-41-7	23	Beryllium Total	0.225	ug/L	J	6010C	0.100	1	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-7A	SW316	316	Biochemical Oxygen Demand	2000	ug/L	U	SM 5210B	2000	NE	1	7/21/2010	7/22/2010	7/22/2010	591
33-01	3301-MW-7A	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-7A	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	SW317	317	Chemical Oxygen Demand	18000	ug/L		SM 5220D	2800	NE	1	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-MW-7A	SW301	301	Chloride	28000	ug/L		300.0	18	NE	1	7/21/2010	7/27/2010	7/27/2010	591
33-01	3301-MW-7A	108-90-7	39	Chlorobenzene	1.8	ug/L	J	8260B	0.27	3	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	75-00-3	41	Chloroethane	2.3	ug/L	J	8260B	0.30	10	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-7A	156-59-2	78	cis-1,2-Dichloroethene	0.36	ug/L	U	8260B	0.36	5	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	7440-48-4	53	Cobalt Total	1.10	ug/L	U	6010C	1.10	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-7A	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-7A	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	7439-89-6	340	Iron Total	110000	ug/L		6010C	22.0	300	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-7A	7439-92-1	131	Lead Total	6.90	ug/L	J	6010C	1.90	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-7A	7439-96-5	342	Manganese Total	266	ug/L		6010C	1.10	50	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-7A	7439-97-6	132	Mercury Total	0.170	ug/L	U	7470A	0.170	0.2	1	7/21/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-7A	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	7440-02-0	152	Nickel Total	1.80	ug/L	U	6010C	1.80	50	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-7A	SW303	303	Nitrate as N	90	ug/L	J	353.2	25	10000	1	7/21/2010	7/29/2010	7/29/2010	591
33-01	3301-MW-7A	NA	419	Nitrate/Nitrite as N	90	ug/L	J	353.2	25	NE	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-7A	SW304	304	Nitrite as N	5.6	ug/L	U	353.2	5.6	1000	1	7/21/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-7A	7782-49-2	183	Selenium Total	1.25	ug/L	J	6020A	0.830	10	1	7/21/2010	7/23/2010	7/28/2010	591
33-01	3301-MW-7A	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-7A	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	14808-79-8	315	Sulfate as SO4	2200	ug/L	J	300.0	120	250000	1	7/21/2010	7/27/2010	7/27/2010	591
33-01	3301-MW-7A	18496-25-8	187	Sulfide	31	ug/L	U	SM18 4500-S D	31	1000	1	7/21/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-7A	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	5.5	1	7/21/2010	7/23/2010	7/28/2010	591
33-01	3301-MW-7A	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	SW337	337	Total Alkalinity	380000	ug/L	D	310.2	16000	NE	2	7/21/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-7A	SW311	311	Total Dissolved Solids	380000	ug/L		SM 2540C	10000	NE	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-7A	E-10195	357	Total Organic Carbon	5500	ug/L		SM18 5310B	320	NE	1	7/21/2010	7/28/2010	7/28/2010	424
33-01	3301-MW-7A	156-60-5	79	trans-1,2-Dichloroethene	0.34	ug/L	U	8260B	0.34	5	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	79-01-6	201	Trichloroethene	0.38	ug/L	U	8260B	0.38	1	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	7440-62-2	209	Vanadium Total	8.39	ug/L	J	6010C	1.40	25	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-7A	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	75-01-4	211	Vinyl chloride	0.30	ug/L	U	8260B	0.30	1	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/21/2010	7/23/2010	7/24/2010	591
33-01	3301-MW-7A	7440-66-6	213	Zinc Total	3.80	ug/L	U	6010C	3.80	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-8A		318	Depth To Water	11.43	ft						7/20/2010			
33-01	3301-MW-8A		411	Total Well Depth	22.38	ft						7/20/2010			
33-01	3301-MW-8A		328	TOC Elevation	82.34	ft AMSL						7/20/2010			
33-01	3301-MW-8A		319	Groundwater Elevation	70.91	ft AMSL						7/20/2010			
33-01	3301-MW-9		318	Depth To Water	6.41	ft						7/20/2010			
33-01	3301-MW-9		411	Total Well Depth	16.85	ft						7/20/2010			
33-01	3301-MW-9		328	TOC Elevation	72.41	ft AMSL						7/20/2010			
33-01	3301-MW-9		319	Groundwater Elevation	66.00	ft AMSL						7/20/2010			
33-01	3301-MW-9		320	pH	3.49	standard units						7/20/2010			
33-01	3301-MW-9		323	Specific Conductivity	0.212	mS/cm						7/20/2010			
33-01	3301-MW-9		325	Temperature	22.23	ºC						7/20/2010			
33-01	3301-MW-9		330	Turbidity	34.7	NTUs						7/20/2010			
33-01	3301-MW-9	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/20/2010	7/23/2010	7/23/2010	591

Table 1 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
July 20-21, 2010
S&ME Project No. 1054-07-238C

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-MW-9	75-34-3	75	1,1-Dichloroethane	0.33	ug/L	U	8260B	0.33	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	78-87-5	82	1,2-Dichloropropane	0.20	ug/L	U	8260B	0.20	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	106-46-7	71	1,4-Dichlorobenzene	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	67-64-1	3	Acetone	1.5	ug/L	U	8260B	1.5	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	6	1	7/20/2010	7/22/2010	7/28/2010	591
33-01	3301-MW-9	7440-38-2	14	Arsenic Total	2.80	ug/L	U	6010C	2.80	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-9	7440-39-3	15	Barium Total	128	ug/L		6010C	1.00	100	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-9	71-43-2	16	Benzene	0.20	ug/L	U	8260B	0.20	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-9	SW316	316	Biochemical Oxygen Demand	2000	ug/L	U	SM 5210B	2000	NE	1	7/20/2010	7/22/2010	7/22/2010	591
33-01	3301-MW-9	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-9	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	SW317	317	Chemical Oxygen Demand	2800	ug/L	U	SM 5220D	2800	NE	1	7/20/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-9	SW301	301	Chloride	4000	ug/L	J	300.0	18	NE	1	7/20/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-9	108-90-7	39	Chlorobenzene	0.27	ug/L	U	8260B	0.27	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	75-00-3	41	Chloroethane	0.30	ug/L	U	8260B	0.30	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-9	156-59-2	78	cis-1,2-Dichloroethene	0.36	ug/L	U	8260B	0.36	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	7440-48-4	53	Cobalt Total	1.10	ug/L	U	6010C	1.10	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-9	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-9	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	7439-89-6	340	Iron Total	5600	ug/L		6010C	22.0	300	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-9	7439-92-1	131	Lead Total	1.90	ug/L	U	6010C	1.90	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-9	7439-96-5	342	Manganese Total	104	ug/L		6010C	1.10	50	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-9	7439-97-6	132	Mercury Total	0.170	ug/L	U	7470A	0.170	0.2	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	7440-02-0	152	Nickel Total	1.80	ug/L	U	6010C	1.80	50	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-9	SW303	303	Nitrate as N	25	ug/L	U	353.2	25	10000	1	7/20/2010	7/29/2010	7/29/2010	591
33-01	3301-MW-9	NA	419	Nitrate/Nitrite as N	25	ug/L	U	353.2	25	NE	1	7/20/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-9	SW304	304	Nitrite as N	5.6	ug/L	U	353.2	5.6	1000	1	7/20/2010	7/22/2010	7/22/2010	591
33-01	3301-MW-9	7782-49-2	183	Selenium Total	0.830	ug/L	U	6020A	0.830	10	1	7/20/2010	7/22/2010	7/28/2010	591
33-01	3301-MW-9	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-9	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	14808-79-8	315	Sulfate as SO4	2700	ug/L	J	300.0	120	250000	1	7/20/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-9	18496-25-8	187	Sulfide	31	ug/L	U	SM18 4500-S D	31	1000	1	7/20/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-9	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	5.5	1	7/20/2010	7/22/2010	7/28/2010	591
33-01	3301-MW-9	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	SW337	337	Total Alkalinity	97000	ug/L		310.2	8000	NE	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	SW311	311	Total Dissolved Solids	170000	ug/L		SM 2540C	10000	NE	1	7/20/2010	7/25/2010	7/25/2010	591
33-01	3301-MW-9	E-10195	357	Total Organic Carbon	780	ug/L	J	SM18 5310B	320	NE	1	7/20/2010	7/29/2010	7/29/2010	424
33-01	3301-MW-9	156-60-5	79	trans-1,2-Dichloroethene	0.34	ug/L	U	8260B	0.34	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	79-01-6	201	Trichloroethene	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	25	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-9	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	75-01-4	211	Vinyl chloride	0.30	ug/L	U	8260B	0.30	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-9	7440-66-6	213	Zinc Total	3.80	ug/L	U	6010C	3.80	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-10		318	Depth To Water	6.09	ft						7/20/2010			
33-01	3301-MW-10		411	Total Well Depth	13.57	ft						7/20/2010			
33-01	3301-MW-10		328	TOC Elevation	75.78	ft AMSL						7/20/2010			
33-01	3301-MW-10		319	Groundwater Elevation	69.69	ft AMSL						7/20/2010			
33-01	3301-MW-12		318	Depth To Water	8.98	ft						7/20/2010			
33-01	3301-MW-12		411	Total Well Depth	12.68	ft						7/20/2010			
33-01	3301-MW-12		328	TOC Elevation	51.24	ft AMSL						7/20/2010			
33-01	3301-MW-12		319	Groundwater Elevation	42.26	ft AMSL						7/20/2010			
33-01	3301-MW-12		320	pH	3.56	standard units						7/21/2010			
33-01	3301-MW-12		323	Specific Conductivity	0.695	mS/cm						7/21/2010			
33-01	3301-MW-12		325	Temperature	20.72	ºC						7/21/2010			
33-01	3301-MW-12		330	Turbidity	19.7	NTUs						7/21/2010			
33-01	3301-MW-12	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	75-34-3	75	1,1-Dichloroethane	1.6	ug/L	J	8260B	0.33	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	78-87-5	82	1,2-Dichloropropane	0.20	ug/L	U	8260B	0.20	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	106-46-7	71	1,4-Dichlorobenzene	5.2	ug/L		8260B	0.38	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	64-19-7	416	Acetic Acid	83	ug/L	U	VGC-13	83	NE	1	7/21/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-12	67-64-1	3	Acetone	3.9	ug/L	J	8260B	1.5	100	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	6	1	7/21/2010	7/23/2010	7/28/2010	591
33-01	3301-MW-12	7440-38-2	14	Arsenic Total	2.80	ug/L	U	6010C	2.80	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-12	7440-39-3	15	Barium Total	244	ug/L		6010C	1.00	100	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-12	71-43-2	16	Benzene	3.1	ug/L		8260B	0.20	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	7440-41-7	23	Beryllium Total	0.497	ug/L	J	6010C	0.100	1	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-12	SW316	316	Biochemical Oxygen Demand	2000	ug/L	U	SM 5210B	2000	NE	1	7/21/2010	7/22/2010	7/22/2010	591
33-01	3301-MW-12	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	107-92-6	418	Butyric Acid	160	ug/L	U	VGC-13	160	NE	1	7/21/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-12	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-12	124-38-9	413	Carbon dioxide	667000	ug/L	D	RSK-175	7800	NE	10	7/21/2010	7/27/2010	7/27/2010	442
33-01	3301-MW-12	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/21/2010	7/28/2010	7/28/2010	591

Table 1 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
July 20-21, 2010
S&ME Project No. 1054-07-238C

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-MW-12	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	SW317	317	Chemical Oxygen Demand	20000	ug/L		SM 5220D	2800	NE	1	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-MW-12	SW301	301	Chloride	150000	ug/L	D	300.0	72	NE	4	7/21/2010	7/27/2010	7/27/2010	591
33-01	3301-MW-12	108-90-7	39	Chlorobenzene	3.4	ug/L		8260B	0.27	3	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	75-00-3	41	Chloroethane	1.4	ug/L	J	8260B	0.30	10	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-12	156-59-2	78	cis-1,2-Dichloroethene	1.0	ug/L	J	8260B	0.36	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	7440-48-4	53	Cobalt Total	11.5	ug/L		6010C	1.10	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-12	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-12	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	74-84-0	331	Ethane	0.4	ug/L	U	RSK-175	0.4	NE	1	7/21/2010	7/27/2010	7/27/2010	442
33-01	3301-MW-12	87701-65-3	332	Ethene	0.4	ug/L	U	RSK-175	0.4	NE	1	7/21/2010	7/27/2010	7/27/2010	442
33-01	3301-MW-12	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12			Hexanoic Acid	230	ug/L	U	VGC-13	230		1	7/21/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-12			HIBA (2-Hydroxyisobutyric Acid)	160	ug/L	U	VGC-13	160		1	7/21/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-12	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	7439-89-6	340	Iron Total	8550	ug/L		6010C	22.0	300	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-12			iso-Hexanoic Acid	210	ug/L	U	VGC-13	210		1	7/21/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-12			iso-Pentanoic Acid	260	ug/L	U	VGC-13	260		1	7/21/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-12	50-21-5	415	Lactic Acid	440	ug/L	U	VGC-13	440	NE	1	7/21/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-12	7439-92-1	131	Lead Total	2.23	ug/L	J	6010C	1.90	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-12	7439-96-5	342	Manganese Total	73.6	ug/L		6010C	1.10	50	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-12	7439-97-6	132	Mercury Total	0.170	ug/L	U	7470A	0.170	0.2	1	7/21/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-12	74-82-8	333	Methane	62	ug/L		RSK-175	0.2	NE	1	7/21/2010	7/27/2010	7/27/2010	442
33-01	3301-MW-12	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	7440-02-0	152	Nickel Total	17.0	ug/L	J	6010C	1.80	50	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-12	SW303	303	Nitrate as N	180	ug/L	J	353.2	25	10000	1	7/21/2010	7/29/2010	7/29/2010	591
33-01	3301-MW-12	NA	419	Nitrate/Nitrite as N	180	ug/L		353.2	25	NE	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	SW304	304	Nitrite as N	5.6	ug/L	U	353.2	5.6	1000	1	7/21/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-12			Pentanoic Acid	270	ug/L	U	VGC-13	270		1	7/21/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-12	79-09-4	417	Propionic Acid	180	ug/L	U	VGC-13	180	NE	1	7/21/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-12	127-17-3	414	Pyruvic Acid	140	ug/L	U	VGC-13	140	NE	1	7/21/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-12	7782-49-2	183	Selenium Total	9.79	ug/L	J	6020A	0.830	10	1	7/21/2010	7/23/2010	7/28/2010	591
33-01	3301-MW-12	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-12	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	14808-79-8	315	Sulfate as SO4	51000	ug/L	J	300.0	120	250000	1	7/21/2010	7/27/2010	7/27/2010	591
33-01	3301-MW-12	18496-25-8	187	Sulfide	31	ug/L	U	SM18 4500-S D	31	1000	1	7/21/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-12	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	5.5	1	7/21/2010	7/23/2010	7/28/2010	591
33-01	3301-MW-12	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	SW337	337	Total Alkalinity	8500	ug/L	J	310.2	8000	NE	1	7/21/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-12	SW311	311	Total Dissolved Solids	520000	ug/L		SM 2540C	10000	NE	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	E-10195	357	Total Organic Carbon	11000	ug/L		SM18 5310B	320	NE	1	7/21/2010	7/28/2010	7/28/2010	424
33-01	3301-MW-12	156-60-5	79	trans-1,2-Dichloroethene	0.34	ug/L	U	8260B	0.34	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	79-01-6	201	Trichloroethene	0.38	ug/L	U	8260B	0.38	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	7440-62-2	209	Vanadium Total	1.49	ug/L	J	6010C	1.40	25	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-12	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	75-01-4	211	Vinyl chloride	0.30	ug/L	U	8260B	0.30	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-12	7440-66-6	213	Zinc Total	127	ug/L		6010C	3.80	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-12			Hydrogen	0.90	nM		AM20GAX	0.600			7/21/2010		8/3/2010	
33-01	3301-MW-13		318	Depth To Water	8.84	ft						7/20/2010			
33-01	3301-MW-13		411	Total Well Depth	23.00	ft						7/20/2010			
33-01	3301-MW-13		328	TOC Elevation	54.99	ft AMSL						7/20/2010			
33-01	3301-MW-13		319	Groundwater Elevation	46.15	ft AMSL						7/20/2010			
33-01	3301-MW-13		320	pH	4.76	standard units						7/21/2010			
33-01	3301-MW-13		323	Specific Conductivity	0.872	mS/cm						7/21/2010			
33-01	3301-MW-13		325	Temperature	19.69	ºC						7/21/2010			
33-01	3301-MW-13		330	Turbidity	41.3	NTUs						7/21/2010			
33-01	3301-MW-13	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	75-34-3	75	1,1-Dichloroethane	1.4	ug/L	J	8260B	0.33	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	78-87-5	82	1,2-Dichloropropane	0.20	ug/L	U	8260B	0.20	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	106-46-7	71	1,4-Dichlorobenzene	3.5	ug/L		8260B	0.38	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	67-64-1	3	Acetone	1.5	ug/L	U	8260B	1.5	100	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	6	1	7/21/2010	7/23/2010	7/28/2010	591
33-01	3301-MW-13	7440-38-2	14	Arsenic Total	6.41	ug/L	JB	6010C	2.80	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-13	7440-39-3	15	Barium Total	115	ug/L		6010C	1.00	100	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-13	71-43-2	16	Benzene	2.3	ug/L		8260B	0.20	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-13	SW316	316	Biochemical Oxygen Demand	2000	ug/L	U	SM 5210B	2000	NE	1	7/21/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-13	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-13	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	SW317	317	Chemical Oxygen Demand	64000	ug/L		SM 5220D	2800	NE	1	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-MW-13	SW301	301	Chloride	110000	ug/L	D	300.0	36	NE	2	7/21/2010	7/27/2010	7/27/2010	591
33-01	3301-MW-13	108-90-7	39	Chlorobenzene	14	ug/L		8260B	0.27	3	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	75-00-3	41	Chloroethane	0.83	ug/L	J	8260B	0.30	10	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-13	156-59-2	78	cis-1,2-Dichloroethene	53	ug/L		8260B	0.36	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	7440-48-4	53	Cobalt Total	1260	ug/L		6010C	1.10	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-13	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-13	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	7439-89-6	340	Iron Total	29200	ug/L		6010C	22.0	300	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-13	7439-92-1	131	Lead Total	8.12	ug/L	J	6010C	1.90	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-13	7439-96-5	342	Manganese Total	36800	ug/L	D	6010C	5.50	50	5	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-13	7439-97-6	132	Mercury Total	0.170	ug/L	U	7470A	0.170	0.2	1	7/21/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-13	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/21/2010	7/28/2010	7/28/2010	591

Table 1 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
July 20-21, 2010
S&ME Project No. 1054-07-238C

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-MW-13	7440-02-0	152	Nickel Total	244	ug/L		6010C	1.80	50	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-13	SW303	303	Nitrate as N	120	ug/L	J	353.2	25	10000	1	7/21/2010	7/29/2010	7/29/2010	591
33-01	3301-MW-13	NA	419	Nitrate/Nitrite as N	120	ug/L		353.2	25	NE	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	SW304	304	Nitrite as N	5.6	ug/L	U	353.2	5.6	1000	1	7/21/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-13	7782-49-2	183	Selenium Total	7.86	ug/L	J	6020A	0.830	10	1	7/21/2010	7/23/2010	7/28/2010	591
33-01	3301-MW-13	7440-22-4	184	Silver Total	5.25	ug/L	J	6010C	1.90	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-13	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	14808-79-8	315	Sulfate as SO4	41000	ug/L	J	300.0	120	250000	1	7/21/2010	7/27/2010	7/27/2010	591
33-01	3301-MW-13	18496-25-8	187	Sulfide	31	ug/L	U	SM18 4500-S D	31	1000	1	7/21/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-13	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	7440-28-0	194	Thallium Total	0.975	ug/L	J	6020A	0.110	5.5	1	7/21/2010	7/23/2010	7/28/2010	591
33-01	3301-MW-13	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	SW337	337	Total Alkalinity	260000	ug/L	D	310.2	16000	NE	2	7/21/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-13	SW311	311	Total Dissolved Solids	560000	ug/L		SM 2540C	10000	NE	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	E-10195	357	Total Organic Carbon	8700	ug/L		SM18 5310B	320	NE	1	7/21/2010	7/28/2010	7/28/2010	424
33-01	3301-MW-13	156-60-5	79	trans-1,2-Dichloroethene	0.60	ug/L	J	8260B	0.34	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	79-01-6	201	Trichloroethene	1.4	ug/L		8260B	0.38	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	25	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-13	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	75-01-4	211	Vinyl chloride	3.4	ug/L		8260B	0.30	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-13	7440-66-6	213	Zinc Total	122	ug/L		6010C	3.80	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-14		318	Depth To Water	8.25	ft						7/20/2010			
33-01	3301-MW-14		411	Total Well Depth	14.63	ft						7/20/2010			
33-01	3301-MW-14		328	TOC Elevation	43.88	ft AMSL						7/20/2010			
33-01	3301-MW-14		319	Groundwater Elevation	35.63	ft AMSL						7/20/2010			
33-01	3301-MW-14		320	pH	5.28	standard units						7/20/2010			
33-01	3301-MW-14		323	Specific Conductivity	0.404	mS/cm						7/20/2010			
33-01	3301-MW-14		325	Temperature	23.71	ºC						7/20/2010			
33-01	3301-MW-14		330	Turbidity	25.3	NTUs						7/20/2010			
33-01	3301-MW-14	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	75-34-3	75	1,1-Dichloroethane	0.33	ug/L	U	8260B	0.33	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	78-87-5	82	1,2-Dichloropropane	0.20	ug/L	U	8260B	0.20	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	106-46-7	71	1,4-Dichlorobenzene	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	67-64-1	3	Acetone	1.5	ug/L	U	8260B	1.5	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	6	1	7/20/2010	7/22/2010	7/28/2010	591
33-01	3301-MW-14	7440-38-2	14	Arsenic Total	2.80	ug/L	U	6010C	2.80	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-14	7440-39-3	15	Barium Total	215	ug/L		6010C	1.00	100	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-14	71-43-2	16	Benzene	0.20	ug/L	U	8260B	0.20	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-14	SW316	316	Biochemical Oxygen Demand	2000	ug/L	U	SM 5210B	2000	NE	1	7/20/2010	7/22/2010	7/22/2010	591
33-01	3301-MW-14	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-14	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	SW317	317	Chemical Oxygen Demand	5300	ug/L	J	SM 5220D	2800	NE	1	7/20/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-14	SW301	301	Chloride	8900	ug/L		300.0	18	NE	1	7/20/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-14	108-90-7	39	Chlorobenzene	0.27	ug/L	U	8260B	0.27	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	75-00-3	41	Chloroethane	0.30	ug/L	U	8260B	0.30	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-14	156-59-2	78	cis-1,2-Dichloroethene	0.36	ug/L	U	8260B	0.36	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	7440-48-4	53	Cobalt Total	1.10	ug/L	U	6010C	1.10	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-14	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-14	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	7439-89-6	340	Iron Total	3620	ug/L		6010C	22.0	300	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-14	7439-92-1	131	Lead Total	1.90	ug/L	U	6010C	1.90	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-14	7439-96-5	342	Manganese Total	114	ug/L		6010C	1.10	50	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-14	7439-97-6	132	Mercury Total	0.170	ug/L	U	7470A	0.170	0.2	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	7440-02-0	152	Nickel Total	1.80	ug/L	U	6010C	1.80	50	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-14	SW303	303	Nitrate as N	25	ug/L	U	353.2	25	10000	1	7/20/2010	7/29/2010	7/29/2010	591
33-01	3301-MW-14	NA	419	Nitrate/Nitrite as N	25	ug/L	U	353.2	25	NE	1	7/20/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-14	SW304	304	Nitrite as N	5.9	ug/L	JB	353.2	5.6	1000	1	7/20/2010	7/22/2010	7/22/2010	591
33-01	3301-MW-14	7782-49-2	183	Selenium Total	0.830	ug/L	U	6020A	0.830	10	1	7/20/2010	7/22/2010	7/28/2010	591
33-01	3301-MW-14	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-14	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	14808-79-8	315	Sulfate as SO4	22000	ug/L	J	300.0	120	250000	1	7/20/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-14	18496-25-8	187	Sulfide	44	ug/L	J	SM18 4500-S D	31	1000	1	7/20/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-14	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	5.5	1	7/20/2010	7/22/2010	7/28/2010	591
33-01	3301-MW-14	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	SW337	337	Total Alkalinity	180000	ug/L		310.2	8000	NE	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	SW311	311	Total Dissolved Solids	260000	ug/L		SM 2540C	10000	NE	1	7/20/2010	7/25/2010	7/25/2010	591
33-01	3301-MW-14	E-10195	357	Total Organic Carbon	3600	ug/L		SM18 5310B	320	NE	1	7/20/2010	7/29/2010	7/29/2010	424
33-01	3301-MW-14	156-60-5	79	trans-1,2-Dichloroethene	0.34	ug/L	U	8260B	0.34	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	79-01-6	201	Trichloroethene	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	25	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-14	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	75-01-4	211	Vinyl chloride	0.30	ug/L	U	8260B	0.30	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-14	7440-66-6	213	Zinc Total	3.80	ug/L	U	6010C	3.80	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-15		318	Depth To Water	9.32	ft						7/20/2010			
33-01	3301-MW-15		411	Total Well Depth	14.27	ft						7/20/2010			
33-01	3301-MW-15		328	TOC Elevation	44.87	ft AMSL						7/20/2010			
33-01	3301-MW-15		319	Groundwater Elevation	35.55	ft AMSL						7/20/2010			
33-01	3301-MW-15		320	pH	4.88	standard units						7/21/2010			
33-01	3301-MW-15		323	Specific Conductivity	0.820	mS/cm						7/21/2010			
33-01	3301-MW-15		325	Temperature	20.79	ºC						7/21/2010			
33-01	3301-MW-15		330	Turbidity	3.3	NTUs						7/21/2010			

Table 1 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
July 20-21, 2010
S&ME Project No. 1054-07-238C

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-MW-15	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	75-34-3	75	1,1-Dichloroethane	0.94	ug/L	J	8260B	0.33	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	78-87-5	82	1,2-Dichloropropane	2.4	ug/L		8260B	0.20	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	106-46-7	71	1,4-Dichlorobenzene	0.38	ug/L	U	8260B	0.38	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	67-64-1	3	Acetone	1.5	ug/L	U	8260B	1.5	100	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	6	1	7/21/2010	7/23/2010	7/28/2010	591
33-01	3301-MW-15	7440-38-2	14	Arsenic Total	8.39	ug/L	JB	6010C	2.80	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-15	7440-39-3	15	Barium Total	306	ug/L		6010C	1.00	100	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-15	71-43-2	16	Benzene	0.55	ug/L	J	8260B	0.20	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-15	SW316	316	Biochemical Oxygen Demand	2600	ug/L		SM 5210B	2000	NE	1	7/21/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-15	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-15	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	SW317	317	Chemical Oxygen Demand	16000	ug/L		SM 5220D	2800	NE	1	7/21/2010	7/30/2010	7/30/2010	591
33-01	3301-MW-15	SW301	301	Chloride	14000	ug/L		300.0	18	NE	1	7/21/2010	7/27/2010	7/27/2010	591
33-01	3301-MW-15	108-90-7	39	Chlorobenzene	1.4	ug/L	J	8260B	0.27	3	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	75-00-3	41	Chloroethane	0.42	ug/L	J	8260B	0.30	10	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-15	156-59-2	78	cis-1,2-Dichloroethene	23	ug/L		8260B	0.36	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	7440-48-4	53	Cobalt Total	9.66	ug/L	J	6010C	1.10	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-15	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-15	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	7439-89-6	340	Iron Total	16700	ug/L		6010C	22.0	300	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-15	7439-92-1	131	Lead Total	1.90	ug/L	U	6010C	1.90	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-15	7439-96-5	342	Manganese Total	6670	ug/L		6010C	1.10	50	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-15	7439-97-6	132	Mercury Total	0.170	ug/L	U	7470A	0.170	0.2	1	7/21/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-15	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	7440-02-0	152	Nickel Total	7.52	ug/L	J	6010C	1.80	50	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-15	SW303	303	Nitrate as N	140	ug/L	J	353.2	25	10000	1	7/21/2010	7/29/2010	7/29/2010	591
33-01	3301-MW-15	NA	419	Nitrate/Nitrite as N	140	ug/L		353.2	25	NE	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	SW304	304	Nitrite as N	5.6	ug/L	U	353.2	5.6	1000	1	7/21/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-15	7782-49-2	183	Selenium Total	0.881	ug/L	J	6020A	0.830	10	1	7/21/2010	7/23/2010	7/28/2010	591
33-01	3301-MW-15	7440-22-4	184	Silver Total	2.67	ug/L	J	6010C	1.90	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-15	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	14808-79-8	315	Sulfate as SO4	14000	ug/L	J	300.0	120	250000	1	7/21/2010	7/27/2010	7/27/2010	591
33-01	3301-MW-15	18496-25-8	187	Sulfide	31	ug/L	U	SM18 4500-S D	31	1000	1	7/21/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-15	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	5.5	1	7/21/2010	7/23/2010	7/28/2010	591
33-01	3301-MW-15	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	SW337	337	Total Alkalinity	410000	ug/L	D	310.2	32000	NE	4	7/21/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-15	SW311	311	Total Dissolved Solids	460000	ug/L		SM 2540C	10000	NE	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	E-10195	357	Total Organic Carbon	4800	ug/L		SM18 5310B	320	NE	1	7/21/2010	7/28/2010	7/28/2010	424
33-01	3301-MW-15	156-60-5	79	trans-1,2-Dichloroethene	0.58	ug/L	J	8260B	0.34	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	79-01-6	201	Trichloroethene	0.38	ug/L	U	8260B	0.38	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	25	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-15	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	75-01-4	211	Vinyl chloride	2.9	ug/L		8260B	0.30	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-15	7440-66-6	213	Zinc Total	3.80	ug/L	U	6010C	3.80	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-MW-16		318	Depth To Water	12.98	ft						7/20/2010			
33-01	3301-MW-16		411	Total Well Depth	19.85	ft						7/20/2010			
33-01	3301-MW-16		328	TOC Elevation	46.58	ft AMSL						7/20/2010			
33-01	3301-MW-16		319	Groundwater Elevation	33.60	ft AMSL						7/20/2010			
33-01	3301-MW-16		320	pH	3.54	standard units						7/20/2010			
33-01	3301-MW-16		323	Specific Conductivity	0.595	mS/cm						7/20/2010			
33-01	3301-MW-16		325	Temperature	20.54	ºC						7/20/2010			
33-01	3301-MW-16		330	Turbidity	14.0	NTUs						7/20/2010			
33-01	3301-MW-16	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	75-34-3	75	1,1-Dichloroethane	0.33	ug/L	U	8260B	0.33	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	78-87-5	82	1,2-Dichloropropane	0.20	ug/L	U	8260B	0.20	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	106-46-7	71	1,4-Dichlorobenzene	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	64-19-7	416	Acetic Acid	83	ug/L	U	VGC-13	83	NE	1	7/20/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-16	67-64-1	3	Acetone	1.5	ug/L	U	8260B	1.5	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	6	1	7/20/2010	7/22/2010	7/28/2010	591
33-01	3301-MW-16	7440-38-2	14	Arsenic Total	10.5	ug/L		6010C	2.80	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-16	7440-39-3	15	Barium Total	282	ug/L		6010C	1.00	100	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-16	71-43-2	16	Benzene	0.20	ug/L	U	8260B	0.20	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-16	SW316	316	Biochemical Oxygen Demand	2000	ug/L	U	SM 5210B	2000	NE	1	7/20/2010	7/22/2010	7/22/2010	591
33-01	3301-MW-16	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	107-92-6	418	Butyric Acid	160	ug/L	U	VGC-13	160	NE	1	7/20/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-16	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-16	124-38-9	413	Carbon dioxide	308000	ug/L	D	RSK-175	7800	NE	10	7/20/2010	7/27/2010	7/27/2010	442
33-01	3301-MW-16	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/20/2010	7/23/2010	7/23/2010	591

Table 1 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
July 20-21, 2010
S&ME Project No. 1054-07-238C

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-MW-16	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	SW317	317	Chemical Oxygen Demand	48000	ug/L		SM 5220D	2800	NE	1	7/20/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-16	SW301	301	Chloride	25000	ug/L		300.0	18	NE	1	7/20/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-16	108-90-7	39	Chlorobenzene	0.27	ug/L	U	8260B	0.27	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	75-00-3	41	Chloroethane	0.30	ug/L	U	8260B	0.30	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-16	156-59-2	78	cis-1,2-Dichloroethene	0.36	ug/L	U	8260B	0.36	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	7440-48-4	53	Cobalt Total	1.10	ug/L	U	6010C	1.10	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-16	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-16	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	74-84-0	331	Ethane	0.4	ug/L	U	RSK-175	0.4	NE	1	7/20/2010	7/27/2010	7/27/2010	442
33-01	3301-MW-16	87701-65-3	332	Ethene	0.4	ug/L	U	RSK-175	0.4	NE	1	7/20/2010	7/27/2010	7/27/2010	442
33-01	3301-MW-16	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16			Hexanoic Acid	230	ug/L	U	VGC-13	230		1	7/20/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-16			HIBA (2-Hydroxyisobutyric Acid)	160	ug/L	U	VGC-13	160		1	7/20/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-16	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	7439-89-6	340	Iron Total	43800	ug/L		6010C	22.0	300	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-16			iso-Hexanoic Acid	210	ug/L	U	VGC-13	210		1	7/20/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-16			iso-Pentanoic Acid	260	ug/L	U	VGC-13	260		1	7/20/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-16	50-21-5	415	Lactic Acid	440	ug/L	U	VGC-13	440	NE	1	7/20/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-16	7439-92-1	131	Lead Total	3.51	ug/L	J	6010C	1.90	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-16	7439-96-5	342	Manganese Total	364	ug/L		6010C	1.10	50	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-16	7439-97-6	132	Mercury Total	0.170	ug/L	U	7470A	0.170	0.2	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	74-82-8	333	Methane	5040	ug/L		RSK-175	0.2	NE	1	7/20/2010	7/27/2010	7/27/2010	442
33-01	3301-MW-16	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	7440-02-0	152	Nickel Total	1.80	ug/L	U	6010C	1.80	50	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-16	SW303	303	Nitrate as N	25	ug/L	U	353.2	25	10000	1	7/20/2010	7/29/2010	7/29/2010	591
33-01	3301-MW-16	NA	419	Nitrate/Nitrite as N	25	ug/L	U	353.2	25	NE	1	7/20/2010	7/28/2010	7/28/2010	591
33-01	3301-MW-16	SW304	304	Nitrite as N	5.6	ug/L	U	353.2	5.6	1000	1	7/20/2010	7/22/2010	7/22/2010	591
33-01	3301-MW-16			Pentanoic Acid	270	ug/L	U	VGC-13	270		1	7/20/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-16	79-09-4	417	Propionic Acid	180	ug/L	U	VGC-13	180	NE	1	7/20/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-16	127-17-3	414	Pyruvic Acid	140	ug/L	U	VGC-13	140	NE	1	7/20/2010	7/26/2010	7/26/2010	442
33-01	3301-MW-16	7782-49-2	183	Selenium Total	1.78	ug/L	J	6020A	0.830	10	1	7/20/2010	7/22/2010	7/28/2010	591
33-01	3301-MW-16	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-16	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	14808-79-8	315	Sulfate as SO4	120	ug/L	U	300.0	120	250000	1	7/20/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-16	18496-25-8	187	Sulfide	31	ug/L	U	SM18 4500-S D	31	1000	1	7/20/2010	7/26/2010	7/26/2010	591
33-01	3301-MW-16	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	5.5	1	7/20/2010	7/22/2010	7/28/2010	591
33-01	3301-MW-16	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	SW337	337	Total Alkalinity	260000	ug/L	D	310.2	16000	NE	2	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	SW311	311	Total Dissolved Solids	310000	ug/L		SM 2540C	10000	NE	1	7/20/2010	7/25/2010	7/25/2010	591
33-01	3301-MW-16	E-10195	357	Total Organic Carbon	15000	ug/L		SM18 5310B	320	NE	1	7/20/2010	7/29/2010	7/29/2010	424
33-01	3301-MW-16	156-60-5	79	trans-1,2-Dichloroethene	0.34	ug/L	U	8260B	0.34	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	79-01-6	201	Trichloroethene	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	7440-62-2	209	Vanadium Total	1.86	ug/L	J	6010C	1.40	25	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-16	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	75-01-4	211	Vinyl chloride	0.30	ug/L	U	8260B	0.30	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-MW-16	7440-66-6	213	Zinc Total	3.80	ug/L	U	6010C	3.80	10	1	7/20/2010	7/22/2010	8/2/2010	591
33-01	3301-MW-16			Hydrogen	2.10	nM		AM20GAX	0.600			7/20/2010		8/3/2010	
33-01	3301-Equipment Blank	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	75-34-3	75	1,1-Dichloroethane	0.33	ug/L	U	8260B	0.33	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	78-87-5	82	1,2-Dichloropropane	0.20	ug/L	U	8260B	0.20	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	106-46-7	71	1,4-Dichlorobenzene	0.38	ug/L	U	8260B	0.38	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	67-64-1	3	Acetone	1.5	ug/L	U	8260B	1.5	100	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	7440-36-0	13	Antimony Total	0.683	ug/L	J	6020A	0.220	6	1	7/21/2010	7/23/2010	7/28/2010	591
33-01	3301-Equipment Blank	7440-38-2	14	Arsenic Total	3.45	ug/L	JB	6010C	2.80	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-Equipment Blank	7440-39-3	15	Barium Total	1.00	ug/L	U	6010C	1.00	100	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-Equipment Blank	71-43-2	16	Benzene	0.20	ug/L	U	8260B	0.20	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-Equipment Blank	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-Equipment Blank	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	108-90-7	39	Chlorobenzene	0.27	ug/L	U	8260B	0.27	3	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	75-00-3	41	Chloroethane	0.30	ug/L	U	8260B	0.30	10	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	7440-47-3	51	Chromium Total	1.00	ug/L	U	6010C	1.00	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-Equipment Blank	156-59-2	78	cis-1,2-Dichloroethene	0.36	ug/L	U	8260B	0.36	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	7440-48-4	53	Cobalt Total	1.10	ug/L	U	6010C	1.10	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-Equipment Blank	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-Equipment Blank	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	7439-92-1	131	Lead Total	1.90	ug/L	U	6010C	1.90	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-Equipment Blank	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	7440-02-0	152	Nickel Total	1.80	ug/L	U	6010C	1.80	50	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-Equipment Blank	7782-49-2	183	Selenium Total	1.22	ug/L	J	6020A	0.830	10	1	7/21/2010	7/23/2010	7/28/2010	591
33-01	3301-Equipment Blank	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-Equipment Blank	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	5.5	1	7/21/2010	7/23/2010	7/28/2010	591
33-01	3301-Equipment Blank	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/21/2010	7/28/2010	7/28/2010	591

Table 1 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
July 20-21, 2010
S&ME Project No. 1054-07-238C

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-Equipment Blank	156-60-5	79	trans-1,2-Dichloroethene	0.34	ug/L	U	8260B	0.34	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	79-01-6	201	Trichloroethene	0.38	ug/L	U	8260B	0.38	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	25	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-Equipment Blank	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	75-01-4	211	Vinyl chloride	0.30	ug/L	U	8260B	0.30	1	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/21/2010	7/28/2010	7/28/2010	591
33-01	3301-Equipment Blank	7440-66-6	213	Zinc Total	3.80	ug/L	U	6010C	3.80	10	1	7/21/2010	7/23/2010	7/29/2010	591
33-01	3301-Trip Blank	630-20-6	190	1,1,1,2-Tetrachloroethane	0.40	ug/L	U	8260B	0.40	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	71-55-6	200	1,1,1-Trichloroethane	0.27	ug/L	U	8260B	0.27	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	79-34-5	191	1,1,2,2-Tetrachloroethane	0.33	ug/L	U	8260B	0.33	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	79-00-5	202	1,1,2-Trichloroethane	0.37	ug/L	U	8260B	0.37	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	75-34-3	75	1,1-Dichloroethane	0.33	ug/L	U	8260B	0.33	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	75-35-4	77	1,1-Dichloroethene	0.24	ug/L	U	8260B	0.24	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	96-18-4	206	1,2,3-Trichloropropane	0.55	ug/L	U	8260B	0.55	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	13	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	106-93-4	68	1,2-Dibromoethane	0.42	ug/L	U	8260B	0.42	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	95-50-1	69	1,2-Dichlorobenzene	0.27	ug/L	U	8260B	0.27	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	107-06-2	76	1,2-Dichloroethane	0.65	ug/L	U	8260B	0.65	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	78-87-5	82	1,2-Dichloropropane	0.20	ug/L	U	8260B	0.20	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	106-46-7	71	1,4-Dichlorobenzene	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	78-93-3	141	2-Butanone	1.0	ug/L	U	8260B	1.0	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	591-78-6	124	2-Hexanone	0.69	ug/L	U	8260B	0.69	50	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	67-64-1	3	Acetone	1.5	ug/L	U	8260B	1.5	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	107-13-1	8	Acrylonitrile	2.1	ug/L	U	8260B	2.1	200	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	71-43-2	16	Benzene	0.20	ug/L	U	8260B	0.20	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	74-97-5	28	Bromochloromethane	0.42	ug/L	U	8260B	0.42	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	75-27-4	29	Bromodichloromethane	0.37	ug/L	U	8260B	0.37	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	75-25-2	30	Bromoform	0.71	ug/L	U	8260B	0.71	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	74-83-9	136	Bromomethane	0.49	ug/L	U	8260B	0.49	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	75-15-0	35	Carbon disulfide	0.54	ug/L	U	8260B	0.54	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	56-23-5	36	Carbon tetrachloride	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	108-90-7	39	Chlorobenzene	0.27	ug/L	U	8260B	0.27	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	75-00-3	41	Chloroethane	0.30	ug/L	U	8260B	0.30	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	67-66-3	44	Chloroform	0.20	ug/L	U	8260B	0.20	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	74-87-3	137	Chloromethane	0.34	ug/L	U	8260B	0.34	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	156-59-2	78	cis-1,2-Dichloroethene	0.36	ug/L	U	8260B	0.36	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	10061-01-5	86	cis-1,3-Dichloropropene	0.28	ug/L	U	8260B	0.28	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	124-48-1	66	Dibromochloromethane	0.32	ug/L	U	8260B	0.32	3	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	74-95-3	139	Dibromomethane	0.37	ug/L	U	8260B	0.37	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	100-41-4	110	Ethylbenzene	0.20	ug/L	U	8260B	0.20	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	74-88-4	142	Iodomethane	0.52	ug/L	U	8260B	0.52	10	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	75-09-2	140	Methylene chloride	0.53	ug/L	U	8260B	0.53	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	100-42-5	186	Styrene	0.26	ug/L	U	8260B	0.26	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	127-18-4	192	Tetrachloroethene	0.36	ug/L	U	8260B	0.36	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	108-88-3	196	Toluene	0.27	ug/L	U	8260B	0.27	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	156-60-5	79	trans-1,2-Dichloroethene	0.34	ug/L	U	8260B	0.34	5	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	10061-02-6	87	trans-1,3-Dichloropropene	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	110-57-6	73	trans-1,4-Dichloro-2-butene	0.54	ug/L	U	8260B	0.54	100	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	79-01-6	201	Trichloroethene	0.38	ug/L	U	8260B	0.38	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	75-69-4	203	Trichlorofluoromethane	0.28	ug/L	U	8260B	0.28	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	108-05-4	210	Vinyl acetate	0.98	ug/L	U	8260B	0.98	50	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	75-01-4	211	Vinyl chloride	0.30	ug/L	U	8260B	0.30	1	1	7/20/2010	7/23/2010	7/23/2010	591
33-01	3301-Trip Blank	1330-20-7	346	Xylenes (Total)	0.40	ug/L	U	8260B	0.40	5	1	7/20/2010	7/23/2010	7/23/2010	591

NOTES:
NM = Not Measured
U = Compound detected below laboratory method detection limit.
B = Compound also detected in laboratory method blank.
J = Analyte detected, but below the laboratory reporting limit therefore the result is an estimated concentration.
D = The sample was analyzed at dilution.
ft. = feet
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
nM = Nanomolar
mg/L = Milligrams per Liter
ug/L = micrograms per liter
MDL = Method Detection Limit
SWSL = Solid Waste Section Limit. (ref. NC DENR-DWM, Solid Waste Section February 23, 2007 memorandum)
Blank entries indicate not applicable.

Table 2
Groundwater Quality Summary
Edgecombe County Landfill
July 20-21, 2010 Sampling Event
S&ME Project No. 1054-07-238C

APPENDIX I VOCs EPA METHOD 8260B	UNITS	SWSL	2L STANDARD	DAF Computation	BACKGROUND MONITOR WELLS			COMPLIANCE MONITOR WELLS								QUALITY CONTROL		
					MW-3B	MW-4	MW-9	MW-5	MW-6	MW-7A	MW-12	MW-13	MW-14	MW-15	MW-16	DUPLICATE (MW-5)	EQUIPMENT BLANK	TRIP BLANK
Acetone	µg/l	100	6,000	NA	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	**3.9J**	<1.5	<1.5	<1.5	<1.5	<15D	<1.5	<1.5
Benzene	µg/l	1	1	NA	<0.20	<0.20	<0.20	**5.1JD**	<0.20	**1.4**	**3.1**	**2.3**	<0.20	**0.55J**	<0.20	**5.6JD**	<0.20	<0.20
Chlorobenzene	µg/l	3	50	NA	<0.27	<0.27	<0.27	**16D**	<0.27	**1.8J**	**3.4**	**14**	<0.27	**1.4J**	<0.27	**16D**	<0.27	<0.27
Chloroethane	µg/l	10	3,000	NA	<0.30	<0.30	<0.30	<3.0D	<0.30	**2.3J**	**1.4J**	**0.83J**	<0.30	**0.42J**	<0.30	<3.0D	<0.30	<0.30
1,4-Dichlorobenzene	µg/l	1	6	NA	<0.38	<0.38	<0.38	**9.4JD**	<0.38	**0.62J**	**5.2**	**3.5**	<0.38	<0.38	<0.38	<3.8D	<0.38	<0.38
1,1-Dichloroethane	µg/l	5	6	NA	<0.33	<0.33	<0.33	**8.6JD**	**0.46J**	<0.33	**1.6J**	**1.4J**	<0.33	**0.94J**	<0.33	**9.7JD**	<0.33	<0.33
cis-1,2-Dichloroethene	µg/l	5	70	NA	<0.36	<0.36	<0.36	**620D**	**0.67J**	<0.36	**1.0J**	**53**	<0.36	**23**	<0.36	**610D**	<0.36	<0.36
trans-1,2-Dichloroethene	µg/l	5	100	NA	<0.34	<0.34	<0.34	**4.0JD**	<0.34	<0.34	<0.34	**0.60J**	<0.34	**0.58J**	<0.34	<3.4D	<0.34	<0.34
1,2-Dichloropropane	µg/l	1	0.6	NA	<0.20	<0.20	<0.20	<2.0D	<0.20	<0.20	<0.20	<0.20	<0.20	**2.4**	<0.20	<2.0D	<0.20	<0.20
Methylene chloride	µg/l	1	5	NA	<0.53	<0.53	<0.53	**16BD**	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<5.3D	<0.53	<0.53
Trichloroethene	µg/l	1	3	NA	<0.38	<0.38	<0.38	<3.8D	<0.38	<0.38	<0.38	**1.4**	<0.38	<0.38	<0.38	<3.8D	<0.38	<0.38
Vinyl chloride	µg/l	1	0.03	NA	<0.30	<0.30	<0.30	**30D**	<0.30	<0.30	<0.30	**3.4**	<0.30	**2.9**	<0.30	**34D**	<0.30	<0.30
APP. I INORGANIC EPA METHOD 6010B	**UNITS**	**SWSL**	**2L STANDARD**	**DAF Computation**	**BACKGROUND MONITOR**			**COMPLIANCE MONITOR WELLS**								**QUALITY CONTROL**		
					MW-3B	**MW-4**	**MW-9**	**MW-5**	**MW-6**	**MW-7A**	**MW-12**	**MW-13**	**MW-14**	**MW-15**	**MW-16**	**DUPLICATE (MW-5)**	**EQUIPMENT BLANK**	**TRIP BLANK**
Antimony (Total)	µg/l	6	1.4*	NA	<0.220	**1.69J**	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	**0.683J**	NS
Antimony (Dissolved)	µg/l				<0.220	**1.78J**	<0.220	NS	<0.220	NS	NS	NS	<0.220	NS	<0.220	NS	NS	NS
Arsenic (Total)	µg/l	10	10	200	**5.02J**	<2.80	<2.80	**29.4B**	<2.80	**51.5B**	<2.80	**6.41JB**	<2.80	**8.39JB**	**10.5**	**29.7B**	**3.45JB**	NS
Arsenic (Dissolved)	µg/l				<2.80	<2.80	<2.80	NS	<2.80	NS	NS	NS	<2.80	NS	<2.80	NS	NS	NS
Barium (Total)	µg/l	100	700	118	**127**	**46.6J**	**128**	**158**	**196**	**284**	**244**	**115**	**215**	**306**	**282**	**149**	<1.0	NS
Barium (Dissolved)	µg/l				**133**	**43.2J**	**52.8J**	NS	**138**	NS	NS	NS	**181**	NS	**116**	NS	NS	NS
Beryllium (Total)	µg/l	1	4*	17	**0.709J**	<0.100	<0.100	<0.100	<0.100	**0.225J**	**0.497J**	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	NS
Beryllium (Dissolved)	µg/l				**0.623J**	<0.100	<0.100	NS	<0.100	NS	NS	NS	<0.100	NS	<0.100	NS	NS	NS
Cadmium (Total)	µg/l	1	2	20	**0.659J**	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	NS
Cadmium (Dissolved)	µg/l				**0.613J**	<0.360	<0.360	NS	<0.360	NS	NS	NS	<0.360	NS	<0.360	NS	NS	NS
Cobalt (Total)	µg/l	10	70*	410	**18.1**	<1.10	<1.10	**143**	**1.56J**	<1.10	**11.5**	**1,260**	<1.10	**9.66J**	<1.10	**137**	<1.10	NS
Cobalt (Dissolved)	µg/l				**18.9**	<1.10	<1.10	NS	<1.10	NS	NS	NS	<1.10	NS	<1.10	NS	NS	NS
Copper (Total)	µg/l	10	1,000	210	<1.60	**5.33J**	<1.60	<1.60	<1.60	<1.60	<1.60	<1.60	<1.60	<1.60	<1.60	<1.60	<1.60	NS
Copper (Dissolved)	µg/l				<1.60	**5.25J**	<1.60	NS	<1.60	NS	NS	NS	<1.60	NS	<1.60	NS	NS	NS
Lead (Total)	µg/l	10	15	360	**2.06J**	<1.90	<1.90	**11.4**	<1.90	**6.90J**	**2.23J**	**8.12J**	<1.90	<1.90	**3.51J**	**9.92J**	<1.90	NS
Lead (Dissolved)	µg/l				**4.40J**	<1.90	**2.26J**	NS	<1.90	NS	NS	NS	<1.90	NS	<1.90	NS	NS	NS
Nickel (Total)	µg/l	50	100	230	**17.7J**	<1.80	<1.80	**35.7J**	<1.80	<1.80	**17J**	**244**	<1.80	**7.52J**	<1.80	**33.5J**	<1.80	NS
Nickel (Dissolved)	µg/l				**20.1J**	<1.80	<1.80	NS	<1.80	NS	NS	NS	<1.80	NS	**3.33J**	NS	NS	NS
Selenium (Total)	µg/l	10	20	80	**1.32J**	<0.830	<0.830	**1.01J**	**2.10J**	**1.25J**	**9.79J**	**7.86J**	<0.830	**0.881J**	**1.78J**	<0.830	**1.22J**	NS
Selenium (Dissolved)	µg/l				**1.20J**	<0.830	<0.830	NS	**1.94J**	NS	NS	NS	<0.830	NS	**1.87J**	NS	NS	NS
Silver (Total)	µg/l	10	20	NA	<1.90	<1.90	<1.90	<1.90	**2.00J**	<1.90	<1.90	**5.25J**	<1.90	**2.67J**	<1.90	<1.90	<1.90	NS
Silver (Dissolved)	µg/l				<1.90	<1.90	<1.90	NS	<1.90	NS	NS	NS	<1.90	NS	<1.90	NS	NS	NS
Thallium (Total)	µg/l	5.5	0.28*	5	**0.239J**	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	**0.975J**	<0.110	<0.110	<0.110	<0.110	<0.110	NS
Thallium (Dissolved)	µg/l				**0.386J**	<0.110	<0.110	NS	<0.110	NS	NS	NS	<0.110	NS	<0.110	NS	NS	NS
Vanadium (Total)	µg/l	25	3.5*	670	**3.51J**	**1.47J**	<1.40	**1.43J**	**2.25J**	**8.39J**	**1.49J**	<1.40	<1.40	<1.40	**1.86J**	<1.40	<1.40	NS
Vanadium (Dissolved)	µg/l				<1.40	<1.40	<1.40	NS	<1.40	NS	NS	NS	<1.40	NS	<1.40	NS	NS	NS
Zinc (Total)	µg/l	10	1,000	430	**31.4**	<3.80	<3.80	**54.2**	<3.80	<3.80	**127**	**122**	<3.80	<3.80	<3.80	**51.6**	<3.80	NS
Zinc (Dissolved)	µg/l				**19.1**	<3.80	<3.80	NS	<3.80	NS	NS	NS	<3.80	NS	<3.80	NS	NS	NS

NOTES:
Samples were collected on July 20-21, 2010 and analyzed by Environmental Conservation Laboratories, Inc. (ENCO). Detection limits are shown on laboratory reports.
Values which are **BOLD** indicate levels above laboratory detection limits.
Values which are **BOLD** and shaded indicate levels above their respective NCDENR 2L or GWPST.
DAF Comuptation = Dilution/Attenuation Factor Computation (ref. S&ME Alternate Source Demonstration, June 2008).
2L STANDARD = North Carolina groundwater standards as promulgated by 15A North Carolina Administrative Code, Subchapter 2L.
SWSL = Solid Waste Section Limit. (ref. NCDENR-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.
D = The sample was analyzed at dilution.
B = Compound also detected in laboratory method blank.
NS = Not Sampled for this parameter.
NA = Not Analyzed.
µg/L = Micrograms Per Liter
VOCs = Volatile Organic Compounds
Duplicate sample collected from monitor well MW-5.
Appendix I compounds not shown were not detected during this sampling event. See **Appendix I** of the report for laboratory reports.

Table 3
Geochemical / MNA Constituent Summary
Edgecombe County Landfill
July 20-21, 2010 Sampling Event
S&ME Project No. 1054-07-238C

MONITORED NATURAL ATTENUATION PARAMETERS*	UNITS	BACKGROUND MONITOR WELLS			COMPLIANCE MONITOR WELLS							
		MW-3B	MW-4	MW-9	MW-5	MW-6	MW-7A	MW-12	MW-13	MW-14	MW-15	MW-16
ph**	Std	1.58	4.47	3.49	4.30	3.61	5.39	3.56	4.76	5.28	4.88	3.54
Temperature**	^{o}C	18.81	25.43	22.23	20.21	21.64	21.76	20.72	19.69	23.71	20.79	20.54
Specific Conductance**	mS/cm	0.345	0.318	0.212	1.129	0.488	0.821	0.695	0.872	0.404	0.820	0.595
Oxygen Reduction Potential ORP**	mV	454.1	469.1	77.8	77.2	56.0	44.4	297.1	60.6	37.3	41.6	23.6
Dissolved Oxygen**	mg/L	14.53	13.93	3.15	7.84	8.25	7.22	10.03	11.79	13.67	7.03	11.97
Chloride	mg/L	44	10	4.0J	13	46	28	150D	110D	8.9	14	25
Sulfate	mg/L	61J	64J	2.7J	42J	12J	2.2J	51J	41J	22J	14J	<0.12
Alkalinity	mg/L	<8.0	55	97	590D	150	380D	8.5J	260D	180	410D	260D
Biochemical Oxygen Demand (BOD)	mg/L	<2.0	<2.0	<2.0	19	<2.0	<2.0	<2.0	<2.0	<2.0	2.6	<2.0
Chemical Oxygen Demand (COD)	mg/L	9.6J	42	<2.8	70	36	18	20	64	5.3J	16	48
TOC (Total Organic Carbon)	mg/L	1.9	14	0.780J	6.1	8.1	5.5	11	8.7	3.6	4.8	15
Nitrate as N	mg/L	0.160J	0.710J	<0.025	0.067J	<0.025	0.090J	0.180J	0.120J	<0.025	0.140J	<0.025
Nitrate/Nitrite as N	mg/L	0.160	0.710	<0.025	0.067J	<0.025	0.090J	0.180	0.120	<0.025	0.140	<0.025
Nitite as N	mg/L	0.0059JB	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	0.0059JB	<0.0056	<0.0056
Sulfide	mg/L	<0.031	<0.031	<0.031	<0.031	0.073J	<0.031	<0.031	<0.031	0.044J	<0.031	<0.031
Total Dissolved Solids (TDS)	mg/L	180	230	170	580	320	380	520	560	260	460	310
Iron	mg/L	0.971	0.133J	5.60	118	13.8	110	8.55	29.2	3.62	16.7	43.8
Manganese	mg/L	0.0446J	0.0115J	0.104	33.3D	0.177	0.266	0.0736	36.8D	0.114	6.67	0.364
Carbon Dioxide	mg/L	NS	85.9	NS	467D	NS	NS	667D	NS	NS	NS	308D
Ethane	mg/L	NS	<0.0004	NS	<0.0004	NS	NS	<0.0004	NS	NS	NS	<0.0004
Ethene	mg/L	NS	<0.0004	NS	0.002	NS	NS	<0.0004	NS	NS	NS	<0.0004
Methane	mg/L	NS	0.003	NS	0.290	NS	NS	0.062	NS	NS	NS	5.04
Volatile Fatty Acids	mg/L	NS	CS-BDL	NS	CS-BDL	NS	NS	CS-BDL	NS	NS	NS	CS-BDL
Hydrogen	nM	NS	2.20	NS	1.90	NS	NS	0.90	NS	NS	NS	2.10

NOTES:
Samples were collected on July 20-21, 2010 and analyzed by Environmental Conservation Laboratories, Inc. (ENCO) or Microseeps, Inc. (Hydrogen Only). Detection limits are shown on laboratory reports.
Values which are **BOLD** indicate levels above laboratory detection limits.
* Several methods were used in the laboratory analysis for the geochemical parameters. These methods are listed in the laboratory report in **Appendix I** of the report.
** Parameter analyzed in the field by S&ME personnel. All other parameters analyzed by North Carolina certified laboratories (see **Appendix I** of this report).
J = Analyte detected, but below the laboratory reporting limit therefore the result is an estimated concentration.
D = The sample was analyzed at dilution.
B = Compound also detected in laboratory method blank.
NS = Not Sampled for this parameter.
CS-BDL = Constituent Specific - All Below Laboratory Detection Limits
Std = Standard Units
^{o}C = Degrees Celsius
mS/cm = Microsiemens per Centimeter
mV = Millivolt
mg/L = Millograms Per Liter
nM = Nanomolar

Table 4
Non-Detected Results Used to Select Statistical Tests
Laboratory Analytical Data from September 1994 to July 2010
Edgecombe County Landfill
S&ME Project No. 1054-07-238C

Parameters	Number of Detected Values	Total Number of Values	Number of NDs	Percent NDs	Selected Test
Appendix I Volatile Organic Compounds					
Acetone	2	216	214	99%	WRST
Benzene	42	231	189	82%	WRST
Chlorobenzene	48	231	183	79%	WRST
Chloroethane	30	231	201	87%	WRST
1,4-Dichlorobenzene	36	231	195	84%	WRST
1,1-Dichloroethane	54	231	177	77%	WRST
cis-1,2-Dichloroethene	57	231	174	75%	WRST
trans-1,2-Dichloroethene	25	231	206	89%	WRST
1,2-Dichloropropane	7	231	224	97%	WRST
Methylene Chloride	5	231	226	98%	WRST
Tetrachloroethene	21	231	210	91%	WRST
Trichloroethene	34	231	197	85%	WRST
Vinyl chloride	43	231	188	81%	WRST
Appendix I Inorganic Compounds					
Antimony	10	179	169	94%	WRST
Barium	41	192	151	79%	WRST
Cobalt	91	229	138	60%	WRST
Nickel	34	192	158	82%	WRST
Silver	10	192	182	95%	WRST

Notes:
1. NDs = Non-detected Results
2. WRST = Wilcoxon Rank Sum Test

Table 5
Summary of Statistical Analyses
Wilcoxon Rank Sum Test (Interwell Comparisons)
Laboratory Analytical Data January 1994 to July 2010
Edgecombe County Landfill
S&ME Project No. 1054-07-238C

Parameters	Evidence of Release MW-5	Evidence of Release MW-6	Evidence of Release MW-7A	Evidence of Release MW-12	Evidence of Release MW-13	Evidence of Release MW-14	Evidence of Release MW-15	Evidence of Release MW-16
Appendix I Volatile Organic Compounds								
Acetone	no	no	no	**YES**	no	no	no	no
Benzene	**YES**	no	**YES**	**YES**	**YES**	no	**YES**	no
Chlorobenzene	**YES**	no	**YES**	**YES**	**YES**	no	**YES**	no
Chloroethane	**YES**	no	**YES**	**YES**	**YES**	no	**YES**	no
1,4-Dichlorobenzene	**YES**	no	**YES**	**YES**	**YES**	no	no	no
1,1-Dichloroethane	**YES**	**YES**	no	**YES**	**YES**	no	**YES**	no
cis-1,2-Dichloroethene	**YES**	**YES**	**YES**	**YES**	**YES**	no	**YES**	no
trans-1,2-Dichloroethene	**YES**	no	no	no	**YES**	no	**YES**	no
1,2-Dichloropropane	**YES**	no	no	no	no	no	**YES**	no
Methylene chloride	**YES**	no	no	no	no	no	no	no
Tetrachloroethene	**YES**	no	no	no	no	no	no	no
Trichloroethene	**YES**	no	no	no	**YES**	no	**YES**	no
Vinyl chloride	**YES**	no	**YES**	**YES**	**YES**	no	**YES**	no
Appendix I Inorganic Compounds								
Antimony	no	no	no	--	--	--	--	--
Barium	no	no	no	--	--	--	--	--
Cobalt	**YES**	no	no	**YES**	**YES**	no	**YES**	no
Nickel	**YES**	no	no	--	--	--	--	--
Silver	**YES**	no	**YES**	--	--	--	--	--

Notes:

1. -- = insufficient number of data points to run test.
2. Tests compared at the 1% significance level.
3. Statistcal analysis of data was performed using the ChemStat® statistical software by Starpoint Software.

Table 6
Two-Way Test of Proportions
Non-Parametric Comparison of 95% Confidence Level to Applicable Standard
September 1994 to July 2010
Edgecombe County Landfill
S&ME Project No. 1054-07-238C

Parameters	Applicable Groundwater Quality Standard (µg/l)	Significant Evidence of Contamination at the 95% CL
Appendix I Volatile Organic Compounds		
Acetone	6,000	no
Benzene	**1**	**YES**
Chlorobenzene	50	no
Chloroethane	3,000	no
1,4-Dichlorobenzene	**6**	**YES**
1,1-Dichloroethane	**6**	**YES**
cis-1,2-Dichloroethene	**70**	**YES**
trans-1,2-Dichloroethene	100	no
1,2-Dichloropropane	0.6	no
Methylene chloride	**5**	**YES**
Tetrachloroethene	0.7	no
Trichloroethene	**3**	**YES**
Vinyl chloride	**0.03**	**YES**
Appendix I Inorganic Compounds		
Antimony	1.4	no
Barium	700	no
Cobalt	**70***	**YES**
Nickel	**100**	**YES**
Silver	20	no

Notes:
1. CL = Confidence Level
2. Statistcal analysis of data was performed using the ChemStat® statistical software by Starpoint Software.
3. 2L STANDARD = North Carolina groundwater standards as promulgated by 15A North Carolina Administrative Code, Subchapter 2L.
4. *Indicates there is currently no 2L Standard. The target analyte was compared to the Solid Waste Groundwater Protection Standard (GWPST).

Table 7
Trend Analyses (Mann-Kendall Trend Analyses / Sen's Slope Analyses)
for Significant Findings 1994 thru July 2010
Edgecombe County Landfill
S&ME Project No. 1054-07-238C

Parameters	MW-5	MW-6	MW-7A	MW-12	MW-13	MW-14	MW-15	MW-16
Appendix I Volatile Organic Compounds								
Benzene	**No Trend / Downward Trend**	NA	No Trend / No Trend	No Trend / No Trend	No Trend / No Trend	NA	No Trend / No Trend	NA
1,4-Dichlorobenzene	No Trend / No Trend	NA	No Trend / No Trend	No Trend / No Trend	No Trend / No Trend	NA	NA	NA
1,1-Dichloroethane	**No Trend / Downward Trend**	No Trend / No Trend	NA	**No Trend / Downward Trend**	**Upward Trend / Upward Trend**	NA	**No Trend / Downward Trend**	NA
cis-1,2-Dichloroethene	**Upward Trend / Upward Trend**	No Trend / No Trend	No Trend / No Trend	No Trend / No Trend	**Upward Trend / Upward Trend**	NA	**No Trend / Downward Trend**	NA
Methylene chloride	**Upward Trend / No Trend**	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	**No Trend / Downward Trend**	NA	NA	NA	No Trend / No Trend	NA	No Trend / No Trend	NA
Vinyl chloride	No Trend / No Trend	NA	No Trend / No Trend	No Trend / No Trend	No Trend / No Trend	NA	No Trend / No Trend	NA
Appendix I Inorganic Compound								
Cobalt	**Upward Trend / Upward Trend**	NA	NA	No Trend / No Trend	No Trend / No Trend	NA	No Trend / No Trend	NA
Nickel	**No Trend / Downward Trend**	NA	NA	--	--	--	--	--

Notes:
1. NA = not analyzed b/c 95%UPL did not exceed applicable groundwater standard.
2. -- = insufficient number of data points to run analyses.
3. Data analysis was performed using the ChemStat® statistical software by Starpoint Software.

APPENDIX I

(REPORT OF LABORATORY ANALYSES)

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Wednesday, September 15, 2010

S&ME, Inc. (SM001)

Attn: Michelle Logut

3201 Spring Forest Road

Raleigh, NC 27616

RE: Laboratory Results for
Project Number: 1054-07-238C, Project Name/Desc: Edgecombe County Landfill - July
ENCO Workorder: C010425

Dear Michelle Logut,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, September 8, 2010.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 15.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 3301-MW3B **Lab ID: C010425-01** **Sampled: 07/20/10 10:50** **Received: 09/08/10 12:03**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/16/11	09/09/10 17:13	9/13/2010 14:36
EPA 6020A	01/16/11	09/13/10 09:27	9/14/2010 12:07

Client ID: 3301-MW4 **Lab ID: C010425-02** **Sampled: 07/20/10 12:05** **Received: 09/08/10 12:03**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/16/11	09/09/10 17:13	9/13/2010 14:48
EPA 6020A	01/16/11	09/13/10 09:27	9/14/2010 12:11

Client ID: 3301-MW6 **Lab ID: C010425-03** **Sampled: 07/20/10 15:00** **Received: 09/08/10 12:03**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/16/11	09/09/10 17:13	9/13/2010 14:51
EPA 6020A	01/16/11	09/13/10 09:27	9/14/2010 12:14

Client ID: 3301-MW9 **Lab ID: C010425-04** **Sampled: 07/20/10 10:05** **Received: 09/08/10 12:03**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/16/11	09/09/10 17:13	9/13/2010 14:55
EPA 6020A	01/16/11	09/13/10 09:27	9/14/2010 12:25

Client ID: 3301-MW14 **Lab ID: C010425-05** **Sampled: 07/20/10 14:10** **Received: 09/08/10 12:03**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/16/11	09/09/10 17:13	9/13/2010 14:58
EPA 6020A	01/16/11	09/13/10 09:27	9/14/2010 12:29

Client ID: 3301-MW16 **Lab ID: C010425-06** **Sampled: 07/20/10 16:15** **Received: 09/08/10 12:03**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/16/11	09/09/10 17:13	9/13/2010 15:01
EPA 6020A	01/16/11	09/13/10 09:27	9/14/2010 12:32

www.encolabs.com

NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 3301-MW3B **Lab ID: C010425-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Dissolved	133		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Dissolved	0.623	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cadmium - Dissolved	0.613	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Cobalt - Dissolved	18.9		1	1.10	10.0	10	ug/L	EPA 6010C	
Lead - Dissolved	4.40	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Dissolved	20.1	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Dissolved	1.20	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Thallium - Dissolved	0.386	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Zinc - Dissolved	19.1		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW4 **Lab ID: C010425-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Dissolved	1.78	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Dissolved	43.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Copper - Dissolved	5.25	J	1	1.60	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW6 **Lab ID: C010425-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Dissolved	138		1	1.00	10.0	100	ug/L	EPA 6010C	
Selenium - Dissolved	1.94	J	1	0.830	1.00	10	ug/L	EPA 6020A	

Client ID: 3301-MW9 **Lab ID: C010425-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Dissolved	52.8	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Lead - Dissolved	2.26	J	1	1.90	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW14 **Lab ID: C010425-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Dissolved	181		1	1.00	10.0	100	ug/L	EPA 6010C	

Client ID: 3301-MW16 **Lab ID: C010425-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Dissolved	116		1	1.00	10.0	100	ug/L	EPA 6010C	
Nickel - Dissolved	3.33	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Dissolved	1.87	J	1	0.830	1.00	10	ug/L	EPA 6020A	

www.encolabs.com

ANALYTICAL RESULTS

Description: 3301-MW3B
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C010425-01
Sampled: 07/20/10 10:50
Sampled By: Michelle Logut/Bob Bryant

Received: 09/08/10 12:03
Work Order: C010425

Metals (Dissolved) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	09/14/10 12:07	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	09/13/10 14:36	JDH	
Barium [7440-39-3] ^	**133**		ug/L	1	1.00	10.0	100	EPA 6010C	09/13/10 14:36	JDH	
Beryllium [7440-41-7] ^	**0.623**	J	ug/L	1	0.100	1.00	1	EPA 6010C	09/13/10 14:36	JDH	
Cadmium [7440-43-9] ^	**0.613**	J	ug/L	1	0.360	1.00	1	EPA 6010C	09/13/10 14:36	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	09/13/10 14:36	JDH	
Cobalt [7440-48-4] ^	**18.9**		ug/L	1	1.10	10.0	10	EPA 6010C	09/13/10 14:36	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/13/10 14:36	JDH	
Lead [7439-92-1] ^	**4.40**	J	ug/L	1	1.90	10.0	10	EPA 6010C	09/13/10 14:36	JDH	
Nickel [7440-02-0] ^	**20.1**	J	ug/L	1	1.80	10.0	50	EPA 6010C	09/13/10 14:36	JDH	
Selenium [7782-49-2] ^	**1.20**	J	ug/L	1	0.830	1.00	10	EPA 6020A	09/14/10 12:07	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/13/10 14:36	JDH	
Thallium [7440-28-0] ^	**0.386**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/14/10 12:07	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/13/10 14:36	JDH	
Zinc [7440-66-6] ^	**19.1**		ug/L	1	3.80	10.0	10	EPA 6010C	09/13/10 14:36	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 3301-MW4 | **Lab Sample ID:** C010425-02 | **Received:** 09/08/10 12:03

Matrix: Ground Water | **Sampled:** 07/20/10 12:05 | **Work Order:** C010425

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Metals (Dissolved) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**1.78**	J	ug/L	1	0.220	2.00	6	EPA 6020A	09/14/10 12:11	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	09/13/10 14:48	JDH	
Barium [7440-39-3] ^	**43.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/13/10 14:48	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/13/10 14:48	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/13/10 14:48	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	09/13/10 14:48	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	09/13/10 14:48	JDH	
Copper [7440-50-8] ^	**5.25**	J	ug/L	1	1.60	10.0	10	EPA 6010C	09/13/10 14:48	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/13/10 14:48	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/13/10 14:48	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	09/14/10 12:11	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/13/10 14:48	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/14/10 12:11	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/13/10 14:48	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	09/13/10 14:48	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 3301-MW6 | **Lab Sample ID:** C010425-03 | **Received:** 09/08/10 12:03

Matrix: Ground Water | **Sampled:** 07/20/10 15:00 | **Work Order:** C010425

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Metals (Dissolved) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	09/14/10 12:14	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	09/13/10 14:51	JDH	
Barium [7440-39-3] ^	**138**		ug/L	1	1.00	10.0	100	EPA 6010C	09/13/10 14:51	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/13/10 14:51	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/13/10 14:51	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	09/13/10 14:51	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	09/13/10 14:51	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/13/10 14:51	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/13/10 14:51	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/13/10 14:51	JDH	
Selenium [7782-49-2] ^	**1.94**	J	ug/L	1	0.830	1.00	10	EPA 6020A	09/14/10 12:14	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/13/10 14:51	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/14/10 12:14	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/13/10 14:51	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	09/13/10 14:51	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 3301-MW9 | **Lab Sample ID:** C010425-04 | **Received:** 09/08/10 12:03

Matrix: Ground Water | **Sampled:** 07/20/10 10:05 | **Work Order:** C010425

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Metals (Dissolved) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	09/14/10 12:25	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	09/13/10 14:55	JDH	
Barium [7440-39-3] ^	**52.8**	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/13/10 14:55	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/13/10 14:55	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/13/10 14:55	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	09/13/10 14:55	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	09/13/10 14:55	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/13/10 14:55	JDH	
Lead [7439-92-1] ^	**2.26**	J	ug/L	1	1.90	10.0	10	EPA 6010C	09/13/10 14:55	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/13/10 14:55	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	09/14/10 12:25	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/13/10 14:55	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/14/10 12:25	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/13/10 14:55	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	09/13/10 14:55	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 3301-MW14 | **Lab Sample ID:** C010425-05 | **Received:** 09/08/10 12:03

Matrix: Ground Water | **Sampled:** 07/20/10 14:10 | **Work Order:** C010425

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Metals (Dissolved) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	09/14/10 12:29	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	09/13/10 14:58	JDH	
Barium [7440-39-3] ^	**181**		ug/L	1	1.00	10.0	100	EPA 6010C	09/13/10 14:58	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/13/10 14:58	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/13/10 14:58	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	09/13/10 14:58	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	09/13/10 14:58	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/13/10 14:58	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/13/10 14:58	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/13/10 14:58	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	09/14/10 12:29	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/13/10 14:58	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/14/10 12:29	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/13/10 14:58	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	09/13/10 14:58	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 3301-MW16 | **Lab Sample ID:** C010425-06 | **Received:** 09/08/10 12:03

Matrix: Ground Water | **Sampled:** 07/20/10 16:15 | **Work Order:** C010425

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Metals (Dissolved) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	09/14/10 12:32	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	09/13/10 15:01	JDH	
Barium [7440-39-3] ^	**116**		ug/L	1	1.00	10.0	100	EPA 6010C	09/13/10 15:01	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/13/10 15:01	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/13/10 15:01	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	09/13/10 15:01	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	09/13/10 15:01	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/13/10 15:01	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/13/10 15:01	JDH	
Nickel [7440-02-0] ^	**3.33**	J	ug/L	1	1.80	10.0	50	EPA 6010C	09/13/10 15:01	JDH	
Selenium [7782-49-2] ^	**1.87**	J	ug/L	1	0.830	1.00	10	EPA 6020A	09/14/10 12:32	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/13/10 15:01	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/14/10 12:32	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/13/10 15:01	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	09/13/10 15:01	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

QUALITY CONTROL

Metals (Dissolved) by EPA 6000/7000 Series Methods - Quality Control

Batch 0I09023 - EPA 3005A

Blank (0I09023-BLK1) Prepared: 09/09/2010 17:13 Analyzed: 09/13/2010 13:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.00	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (0I09023-BS1) Prepared: 09/09/2010 17:13 Analyzed: 09/13/2010 13:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	577		10.0	ug/L	500		115	80-120			
Barium	564		10.0	ug/L	500		113	80-120			
Beryllium	288		1.00	ug/L	250		115	80-120			
Cadmium	285		1.00	ug/L	250		114	80-120			
Chromium	572		10.0	ug/L	500		114	80-120			
Cobalt	560		10.0	ug/L	500		112	80-120			
Copper	292		10.0	ug/L	250		117	80-120			
Lead	571		10.0	ug/L	500		114	80-120			
Nickel	566		10.0	ug/L	500		113	80-120			
Silver	293		10.0	ug/L	250		117	80-120			
Vanadium	279		10.0	ug/L	250		112	80-120			
Zinc	567		10.0	ug/L	500		113	80-120			

Matrix Spike (0I09023-MS1) Prepared: 09/09/2010 17:13 Analyzed: 09/13/2010 13:43

Source: C008991-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	602		10.0	ug/L	500	2.80 U	120	75-125			
Barium	740		10.0	ug/L	500	162	116	75-125			
Beryllium	295		1.00	ug/L	250	0.100 U	118	75-125			
Cadmium	280		1.00	ug/L	250	0.360 U	112	75-125			
Chromium	558		10.0	ug/L	500	1.00 U	112	75-125			
Cobalt	583		10.0	ug/L	500	1.30	116	75-125			
Copper	290		10.0	ug/L	250	5.32	114	75-125			
Lead	592		10.0	ug/L	500	2.86	118	75-125			
Nickel	558		10.0	ug/L	500	1.80 U	112	75-125			
Silver	283		10.0	ug/L	250	1.90 U	113	75-125			
Vanadium	277		10.0	ug/L	250	1.40 U	111	75-125			
Zinc	581		10.0	ug/L	500	14.2	113	75-125			

Matrix Spike Dup (0I09023-MSD1) Prepared: 09/09/2010 17:13 Analyzed: 09/13/2010 13:45

QUALITY CONTROL

Metals (Dissolved) by EPA 6000/7000 Series Methods - Quality Control

Batch 0I09023 - EPA 3005A

Matrix Spike Dup (0I09023-MSD1) Continued Prepared: 09/09/2010 17:13 Analyzed: 09/13/2010 13:45

Source: C008991-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	589		10.0	ug/L	500	2.80 U	118	75-125	2	20	
Barium	751		10.0	ug/L	500	162	118	75-125	1	20	
Beryllium	299		1.00	ug/L	250	0.100 U	120	75-125	1	20	
Cadmium	284		1.00	ug/L	250	0.360 U	114	75-125	2	20	
Chromium	566		10.0	ug/L	500	1.00 U	113	75-125	1	20	
Cobalt	573		10.0	ug/L	500	1.30	114	75-125	2	20	
Copper	295		10.0	ug/L	250	5.32	116	75-125	2	20	
Lead	581		10.0	ug/L	500	2.86	116	75-125	2	20	
Nickel	566		10.0	ug/L	500	1.80 U	113	75-125	1	20	
Silver	286		10.0	ug/L	250	1.90 U	114	75-125	1	20	
Vanadium	281		10.0	ug/L	250	1.40 U	112	75-125	1	20	
Zinc	590		10.0	ug/L	500	14.2	115	75-125	2	20	

Post Spike (0I09023-PS1) Prepared: 09/09/2010 17:13 Analyzed: 09/13/2010 13:48

Source: C008991-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.24		0.0100	mg/L	1.00	-0.000212	124	80-120			QM-08
Barium	1.37		0.0100	mg/L	1.00	0.162	121	80-120			QM-08
Beryllium	0.627		0.00100	mg/L	0.500	-0.000210	125	80-120			QM-08
Cadmium	0.594		0.00100	mg/L	0.500	4.44E-5	119	80-120			
Chromium	1.19		0.0100	mg/L	1.00	-0.000128	119	80-120			
Cobalt	1.17		0.0100	mg/L	1.00	0.00130	117	80-120			
Copper	0.623		0.0100	mg/L	0.500	0.00532	124	80-120			QM-08
Lead	1.21		0.0100	mg/L	1.00	0.00286	121	80-120			QM-08
Nickel	1.17		0.0100	mg/L	1.00	0.00153	117	80-120			
Silver	0.576		0.0100	mg/L	0.500	0.000640	115	80-120			
Vanadium	0.594		0.0100	mg/L	0.500	-0.000494	119	80-120			
Zinc	1.21		0.0100	mg/L	1.00	0.0142	119	80-120			

Batch 0I13011 - EPA 200.8

Blank (0I13011-BLK1) Prepared: 09/13/2010 09:27 Analyzed: 09/14/2010 10:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Selenium	0.830	U	1.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (0I13011-BS1) Prepared: 09/13/2010 09:27 Analyzed: 09/14/2010 11:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.9		2.00	ug/L	25.0		108	80-120			
Selenium	26.9		1.00	ug/L	25.0		107	80-120			
Thallium	26.6		1.00	ug/L	25.0		106	80-120			

QUALITY CONTROL

Metals (Dissolved) by EPA 6000/7000 Series Methods - Quality Control

Batch 0I13011 - EPA 200.8

Matrix Spike (0I13011-MS1) Prepared: 09/13/2010 09:27 Analyzed: 09/14/2010 11:09

Source: C010136-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.7		2.00	ug/L	25.0	0.220 U	107	75-125			
Selenium	26.6		1.00	ug/L	25.0	0.830 U	107	75-125			
Thallium	26.3		1.00	ug/L	25.0	0.110 U	105	75-125			

Matrix Spike Dup (0I13011-MSD1) Prepared: 09/13/2010 09:27 Analyzed: 09/14/2010 11:13

Source: C010136-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.2		2.00	ug/L	25.0	0.220 U	109	75-125	2	20	
Selenium	25.8		1.00	ug/L	25.0	0.830 U	103	75-125	3	20	
Thallium	26.8		1.00	ug/L	25.0	0.110 U	107	75-125	2	20	

Post Spike (0I13011-PS1) Prepared: 09/13/2010 09:27 Analyzed: 09/14/2010 11:16

Source: C010136-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	28.1		2.00	ug/L	25.0	0.114	112	80-120			
Selenium	27.8		1.00	ug/L	25.0	-0.00800	111	80-120			
Thallium	27.7		1.00	ug/L	25.0	0.0730	111	80-120			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QM-08	Post-digestion spike did not meet method requirements due to confirmed matrix effects (dilution test).

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page 1 of 4

Client Name: S&ME, Inc. (SM001)	Project Number: 1054-07-238C
Address: 3201 Spring Forest Road	Project Name/Desc: Edgecombe County Landfill - July
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info
Tel: (919) 872-2660 Fax: (919) 876-3958	Reporting Contact: Michelle Logut
Sampler(s) Name, Affiliation (Print): MICHELLE LOGUT / BOB BRYANT	Billing Contact: Accounts Payable
Sampler(s) Signature: M. Logut / Bob Bryant	Facility # (if required)

Requested Tumaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C008088

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Ni,Pb,Sb,Se,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.2,Chloride 300,Nitrite as N 353.2	BOD SM5210B	COD SM5220D	Fatty Acids	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sample Comments
	3301-MW3B	7/20/10	10:50	GRAB	GW	11	X	X		X	X	X		X	X		
	3301-MW4	↓	12:05	↓	GW	17	X	X		X	X	X	X	X	X	X	
	~~3301-MW5~~				~~GW~~	~~17~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	
	3301-MW6	7/20/10	15:00	GRAB	GW	11	X	X		X	X	X		X	X		
	~~3301-MW7A~~				~~GW~~	~~11~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~		~~X~~	~~X~~		
	3301-MW9	7/20/10	10:05	GRAB	GW	11	X	X		X	X	X		X	X		
	~~3301-MW12~~				~~GW~~	~~17~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	
	~~3301-MW13~~				~~GW~~	~~11~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~		~~X~~	~~X~~		
	3301-MW14	7/20/10	14:10	GRAB	GW	11	X	X		X	X	X		X	X		
	~~3301-MW15~~				~~GW~~	~~11~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~		~~X~~	~~X~~		
	3301-MW16	7/20/10	16:15	GRAB	GW	17	X	X		X	X	X	X	X	X	X	
	~~3301-Upstream (SW-1)~~				~~GW~~	~~4~~	~~X~~		~~X~~								

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
JK	7-9-10	Bob Bryant	7/21/10 0850	[signature]	7/21/10 0840
Comments: Trip blank received. BJG 7/21/10 Diss. App I Metals added per M. Logut. CS 9/8/10		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time 7/21 130
		Cooler #'s & Temps on Receipt: E-8 C-299 3.1°C C-733 2.7°C Blue		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name: S&ME, Inc. (SM001)	Project Number: 1054-07-238C
Address: 3201 Spring Forest Road	Project Name/Desc: Edgecombe County Landfill - July
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info
Tel: (919) 872-2660 Fax: (919) 876-3958	Reporting Contact: Michelle Logut
Sampler(s) Name, Affiliation (Print): MICHELLE LOGUT / BOB BRYANT	Billing Contact: Accounts Payable
Sampler(s) Signature: M. Logut Bob Bryant	Facility # (if required)

Requested Analyses: Sulfate 300; Sulfide SM4500-S D; TOC SM5310B; IRON; TDS; MERCURY; MANGANESE

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due __/__/__

Lab Workorder: C008088

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B	IRON	TDS	MERCURY	MANGANESE				Sample Comments
	3301-MW3B	7/20/10	10:50	GRAB	GW	11	X	X	X	X	X	X	X				
	3301-MW4	↓	12:05	↓	GW	17	X	X	X	X	X	X	X				
	~~3301-MW5~~				~~GW~~	~~17~~	~~X~~	~~X~~	~~X~~								
	3301-MW6	7/20/10	15:00	GRAB	GW	11	X	X	X	X	X	X	X				
	~~3301-MW7A~~				~~GW~~	~~11~~	~~X~~	~~X~~	~~X~~								
	3301-MW9	7/20/10	10:05	GRAB	GW	11	X	X	X	X	X	X	X				
	~~3301-MW12~~				~~GW~~	~~17~~	~~X~~	~~X~~	~~X~~								
	~~3301-MW13~~				~~GW~~	~~11~~	~~X~~	~~X~~	X								
	3301-MW14	7/20/10	14:10	GRAB	GW	11	X	X	X	X	X	X	X				
	~~3301-MW15~~				~~GW~~	~~11~~	~~X~~	~~X~~	~~X~~								
	3301-MW16	7/20/10	16:15	GRAB	GW	17	X	X	X	X	X	X	X				
	~~3301-Upstream (SW-1)~~				~~GW~~	~~4~~											

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: Bob Bryant	Date/Time: 7/21/10 0850	Received By: [signature]	Date/Time: 7/21/10 1040
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By: [signature]	Date/Time: 7/21 130
		Cooler #'s & Temps on Receipt: E-8 C-299 3.1°C C-733 2.7°C Blue		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

www.encolabs.com

Client Name: S & ME
Contact: Michelle Logut
Address: 3201 Spring Forest Road
Raleigh, NC 27616

Page: Page 1 of 5
Lab Proj #: P1007319
Report Date: 08/05/10
Client Proj Name: 1054-07-238C
Client Proj #: 1054-07-238C

Laboratory Results

Total pages in data package: 6

Lab Sample #	Client Sample ID
P1007319-01	MW-4
P1007319-02	MW-16
P1007319-03	MW-12
P1007319-04	MW-5

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Debbie Hallo ***Date:*** 8-5-10

Project Manager: Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

Case Narrative:

Client Name: S & ME
Contact: Michelle Logut
Address: 3201 Spring Forest Road
Raleigh, NC 27616

Lab Proj #: P1007319
Report Date: 08/05/10
Client Proj Name: 1054-07-238C
Client Proj #: 1054-07-238C

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-4	Vapor	P1007319-01	20 Jul. 10 11:50	26 Jul. 10 10:47

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Hydrogen	2.200	0.600	nM	AM20GAX	8/3/10	sl

N - NELAC certified analysis

Client Name: S & ME
Contact: Michelle Logut
Address: 3201 Spring Forest Road
Raleigh, NC 27616

Lab Proj #: P1007319
Report Date: 08/05/10
Client Proj Name: 1054-07-238C
Client Proj #: 1054-07-238C

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-16	Vapor	P1007319-02	20 Jul. 10 16:00	26 Jul. 10 10:47

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Hydrogen	2.100	0.600	nM	AM20GAX	8/3/10	sl

N - NELAC certified analysis

Client Name: S & ME
Contact: Michelle Logut
Address: 3201 Spring Forest Road
Raleigh, NC 27616

Lab Proj #: P1007319
Report Date: 08/05/10
Client Proj Name: 1054-07-238C
Client Proj #: 1054-07-238C

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-12	Vapor	P1007319-03	21 Jul. 10 10:00	26 Jul. 10 10:47

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Hydrogen	0.900	0.600	nM	AM20GAX	8/3/10	sl

N - NELAC certified analysis

Client Name: S & ME
Contact: Michelle Logut
Address: 3201 Spring Forest Road
Raleigh, NC 27616

Lab Proj #: P1007319
Report Date: 08/05/10
Client Proj Name: 1054-07-238C
Client Proj #: 1054-07-238C

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-5	Vapor	P1007319-04	21 Jul. 10 14:35	26 Jul. 10 10:47

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Hydrogen	1.900	0.600	nM	AM20GAX	8/3/10	sl

N - NELAC certified analysis

Microseeps Lab. Proj. # P1007319

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. # 990

Phone: (412) 826-5245 | Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 | Fax No. : (412) 826-3433

Company : SEME, INC.

Co. Address : 3201 SPRING FOREST RD, RALEIGH NC

Phone # : 919-872-2660 Fax # : 919-876-3958

Proj. Manager : MICHELLE LOGUT

Proj. Name/Number : EDGECOMBE CO. LANDFILL 1054-07-238C

Sampler's signature : Michelle Logut / Gerald Paul

Cooler Temp.

Results to : MLOGUT@SMEINC.COM

Invoice to : MLOGUT@SMEINC.COM

Parameters Requested

Sample ID	Sample Description	Sample Type Water	Vapor	Solid	Date	Time	# of Cont.	HYDROGEN										Remarks :
MW-4	VAPOR - BUBBLE SAMPLER		X		7/20/10	11:50	1	X										
MW-16	↓		X		↓	16:00	1	X										
MW-12	↓		X		7/21/10	10:00	1	X										
MW-5	↓		X		↓	14:35	1	X										

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Michelle Y. Logut	SEME, INC.	7/22/10	13:00			7/26	1000
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Thursday, August 5, 2010

S&ME, Inc. (SM001)

Attn: Michelle Logut

3201 Spring Forest Road

Raleigh, NC 27616

RE: Laboratory Results for
Project Number: 1054-07-238C, Project Name/Desc: Edgecombe County Landfill - July
ENCO Workorder: C008088

Dear Michelle Logut,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, July 21, 2010.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 125.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 3301-MW3B **Lab ID: C008088-01** **Sampled: 07/20/10 10:50** **Received: 07/21/10 13:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/17/10		07/26/10	07:57	7/26/2010 21:17
EPA 310.2	08/03/10		07/23/10	07:25	7/23/2010 08:19
EPA 353.2	07/22/10	10:50	07/22/10	06:37	7/22/2010 08:08
EPA 353.2	08/17/10		07/28/10	06:42	7/28/2010 09:49
EPA 353.2	08/17/10		07/29/10	12:43	7/29/2010 13:21
EPA 6010C	01/16/11		07/22/10	16:41	8/2/2010 14:20
EPA 6020A	01/16/11		07/22/10	16:50	7/28/2010 10:47
EPA 7470A	08/17/10		07/23/10	09:34	7/23/2010 17:16
EPA 8260B	08/03/10		07/23/10	13:30	7/23/2010 19:53
SM 2540C	07/27/10		07/25/10	23:26	7/25/2010 23:26
SM 5210B	07/22/10	10:50	07/22/10	09:46	7/22/2010 09:46
SM 5220D	08/17/10		07/26/10	11:15	7/26/2010 13:45
SM18 4500-S D	07/27/10		07/26/10	14:28	7/26/2010 14:58
SM18 5310B	08/17/10		07/29/10	08:20	7/29/2010 11:53

Client ID: 3301-MW4 **Lab ID: C008088-02** **Sampled: 07/20/10 12:05** **Received: 07/21/10 13:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/17/10		07/26/10	07:57	7/26/2010 21:36
EPA 310.2	08/03/10		07/23/10	07:25	7/23/2010 08:21
EPA 353.2	07/22/10	12:05	07/22/10	06:37	7/22/2010 08:09
EPA 353.2	08/17/10		07/29/10	12:43	7/29/2010 13:21
EPA 6010C	01/16/11		07/22/10	16:41	8/2/2010 14:23
EPA 6020A	01/16/11		07/22/10	16:50	7/28/2010 10:51
EPA 7470A	08/17/10		07/23/10	09:34	7/23/2010 17:18
EPA 8260B	08/03/10		07/23/10	13:30	7/23/2010 20:23
RSK-175	08/03/10		07/27/10	11:35	7/27/2010 15:58
SM 2540C	07/27/10		07/25/10	23:26	7/25/2010 23:26
SM 5210B	07/22/10	12:05	07/22/10	09:46	7/22/2010 09:46
SM 5220D	08/17/10		07/26/10	11:15	7/26/2010 13:45
SM18 4500-S D	07/27/10		07/26/10	14:28	7/26/2010 14:58
SM18 5310B	08/17/10		07/29/10	08:20	7/29/2010 11:53
VGC-13	08/03/10		07/26/10	10:22	7/26/2010 17:05

Client ID: 3301-MW4 **Lab ID: C008088-02RE1** **Sampled: 07/20/10 12:05** **Received: 07/21/10 13:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 353.2	08/17/10		07/28/10	06:42	7/28/2010 11:05

www.encolabs.com

Client ID: 3301-MW6	Lab ID: C008088-03	Sampled: 07/20/10 15:00	Received: 07/21/10 13:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/17/10		07/26/10	07:57	7/26/2010 21:55
EPA 310.2	08/03/10		07/23/10	07:25	7/23/2010 08:22
EPA 353.2	07/22/10	15:00	07/22/10	06:37	7/22/2010 08:10
EPA 353.2	08/17/10		07/28/10	06:42	7/28/2010 09:58
EPA 353.2	08/17/10		07/29/10	12:43	7/29/2010 13:21
EPA 6010C	01/16/11		07/22/10	16:41	8/2/2010 14:26
EPA 6020A	01/16/11		07/22/10	16:50	7/28/2010 10:54
EPA 7470A	08/17/10		07/23/10	09:34	7/23/2010 17:43
EPA 8260B	08/03/10		07/23/10	13:30	7/23/2010 20:52
SM 2540C	07/27/10		07/25/10	23:26	7/25/2010 23:26
SM 5210B	07/22/10	15:00	07/22/10	09:46	7/22/2010 09:46
SM 5220D	08/17/10		07/26/10	11:15	7/26/2010 13:45
SM18 4500-S D	07/27/10		07/26/10	14:28	7/26/2010 14:58
SM18 5310B	08/17/10		07/29/10	08:20	7/29/2010 11:53

Client ID: 3301-MW9	Lab ID: C008088-04	Sampled: 07/20/10 10:05	Received: 07/21/10 13:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/17/10		07/26/10	07:57	7/26/2010 22:13
EPA 310.2	08/03/10		07/23/10	07:25	7/23/2010 08:23
EPA 353.2	07/22/10	10:05	07/22/10	06:37	7/22/2010 08:11
EPA 353.2	08/17/10		07/28/10	06:42	7/28/2010 10:00
EPA 353.2	08/17/10		07/29/10	12:43	7/29/2010 13:21
EPA 6010C	01/16/11		07/22/10	16:41	8/2/2010 14:30
EPA 6020A	01/16/11		07/22/10	16:50	7/28/2010 10:58
EPA 7470A	08/17/10		07/23/10	09:34	7/23/2010 17:46
EPA 8260B	08/03/10		07/23/10	13:30	7/23/2010 21:21
SM 2540C	07/27/10		07/25/10	23:26	7/25/2010 23:26
SM 5210B	07/22/10	10:05	07/22/10	09:46	7/22/2010 09:46
SM 5220D	08/17/10		07/26/10	11:15	7/26/2010 13:45
SM18 4500-S D	07/27/10		07/26/10	14:28	7/26/2010 14:58
SM18 5310B	08/17/10		07/29/10	08:20	7/29/2010 11:53

Client ID: 3301-MW14	Lab ID: C008088-05	Sampled: 07/20/10 14:10	Received: 07/21/10 13:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/17/10		07/26/10	07:57	7/26/2010 22:32
EPA 310.2	08/03/10		07/23/10	07:25	7/23/2010 08:24
EPA 353.2	07/22/10	14:10	07/22/10	06:37	7/22/2010 08:12
EPA 353.2	08/17/10		07/28/10	06:42	7/28/2010 10:02
EPA 353.2	08/17/10		07/29/10	12:43	7/29/2010 13:21
EPA 6010C	01/16/11		07/22/10	16:41	8/2/2010 14:33
EPA 6020A	01/16/11		07/22/10	16:50	7/28/2010 11:02
EPA 7470A	08/17/10		07/23/10	09:34	7/23/2010 17:48
EPA 8260B	08/03/10		07/23/10	13:30	7/23/2010 21:51
SM 2540C	07/27/10		07/25/10	23:26	7/25/2010 23:26
SM 5210B	07/22/10	14:10	07/22/10	09:46	7/22/2010 09:46
SM 5220D	08/17/10		07/26/10	11:15	7/26/2010 13:45
SM18 4500-S D	07/27/10		07/26/10	14:28	7/26/2010 14:58
SM18 5310B	08/17/10		07/29/10	08:20	7/29/2010 11:53

www.encolabs.com

Client ID: 3301-MW16	Lab ID: C008088-06	Sampled: 07/20/10 16:15	Received: 07/21/10 13:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	08/17/10	07/26/10 07:57	7/26/2010 22:51
EPA 353.2	07/22/10 16:15	07/22/10 06:37	7/22/2010 08:13
EPA 353.2	08/17/10	07/28/10 06:42	7/28/2010 10:04
EPA 353.2	08/17/10	07/29/10 12:43	7/29/2010 13:21
EPA 6010C	01/16/11	07/22/10 16:41	8/2/2010 14:36
EPA 6020A	01/16/11	07/22/10 16:50	7/28/2010 11:05
EPA 7470A	08/17/10	07/23/10 09:34	7/23/2010 17:51
EPA 8260B	08/03/10	07/23/10 13:30	7/23/2010 22:20
RSK-175	08/03/10	07/27/10 11:35	7/27/2010 16:02
SM 2540C	07/27/10	07/25/10 23:26	7/25/2010 23:26
SM 5210B	07/22/10 16:15	07/22/10 09:46	7/22/2010 09:46
SM 5220D	08/17/10	07/26/10 11:15	7/26/2010 13:45
SM18 4500-S D	07/27/10	07/26/10 14:28	7/26/2010 14:58
SM18 5310B	08/17/10	07/29/10 08:20	7/29/2010 11:53
VGC-13	08/03/10	07/26/10 10:22	7/26/2010 18:07

Client ID: 3301-MW16	Lab ID: C008088-06RE1	Sampled: 07/20/10 16:15	Received: 07/21/10 13:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 310.2	08/03/10	07/23/10 07:25	7/23/2010 08:28
RSK-175	08/03/10	07/27/10 11:35	7/27/2010 16:16

Client ID: 3301-Trip Blank	Lab ID: C008088-07	Sampled: 07/20/10 10:05	Received: 07/21/10 13:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	08/03/10	07/23/10 13:30	7/23/2010 22:49

Client ID: 3301-MW5	Lab ID: C008825-01	Sampled: 07/21/10 14:55	Received: 07/21/10 18:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	08/18/10	07/27/10 07:20	7/27/2010 16:49
EPA 353.2	07/23/10 14:55	07/23/10 06:29	7/23/2010 07:46
EPA 353.2	08/18/10	07/28/10 10:09	7/28/2010 12:18
EPA 353.2	08/18/10	07/29/10 12:45	7/29/2010 13:24
EPA 6010C	01/17/11	07/23/10 09:39	7/29/2010 15:52
EPA 6020A	01/17/11	07/23/10 09:42	7/28/2010 13:52
EPA 7470A	08/18/10	07/23/10 09:31	7/23/2010 19:28
EPA 8260B	08/04/10	07/23/10 12:30	7/24/2010 09:38
RSK-175	08/04/10	07/27/10 11:35	7/27/2010 15:51
SM 2540C	07/28/10	07/28/10 23:16	7/28/2010 23:16
SM 5210B	07/23/10 14:55	07/23/10 10:06	7/23/2010 10:06
SM 5220D	08/18/10	07/30/10 08:00	7/30/2010 10:30
SM18 4500-S D	07/28/10	07/26/10 14:28	7/26/2010 14:58
SM18 5310B	08/18/10	07/28/10 08:42	7/28/2010 12:30
VGC-13	08/04/10	07/26/10 10:22	7/26/2010 15:00

www.encolabs.com

Client ID: 3301-MW5	Lab ID: C008825-01RE1	Sampled: 07/21/10 14:55	Received: 07/21/10 18:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/17/11	07/23/10 09:39	7/29/2010 17:30
RSK-175	08/04/10	07/27/10 11:35	7/27/2010 16:09

Client ID: 3301-MW5	Lab ID: C008825-01RE2	Sampled: 07/21/10 14:55	Received: 07/21/10 18:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 310.2	08/04/10	07/23/10 07:25	7/23/2010 11:59

Client ID: 3301-MW7A	Lab ID: C008825-02	Sampled: 07/21/10 10:55	Received: 07/21/10 18:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	08/18/10	07/27/10 07:20	7/27/2010 17:08
EPA 353.2	07/23/10 10:55	07/23/10 06:29	7/23/2010 07:47
EPA 353.2	08/18/10	07/28/10 10:09	7/28/2010 12:19
EPA 353.2	08/18/10	07/29/10 12:45	7/29/2010 13:24
EPA 6010C	01/17/11	07/23/10 09:39	7/29/2010 15:55
EPA 6020A	01/17/11	07/23/10 09:42	7/28/2010 13:55
EPA 7470A	08/18/10	07/23/10 09:31	7/23/2010 19:31
EPA 8260B	08/04/10	07/23/10 12:30	7/24/2010 10:08
SM 2540C	07/28/10	07/28/10 23:16	7/28/2010 23:16
SM 5210B	07/23/10 10:55	07/22/10 09:46	7/22/2010 09:46
SM 5220D	08/18/10	07/30/10 08:00	7/30/2010 10:30
SM18 4500-S D	07/28/10	07/26/10 14:28	7/26/2010 14:58
SM18 5310B	08/18/10	07/28/10 08:42	7/28/2010 12:30

Client ID: 3301-MW7A	Lab ID: C008825-02RE1	Sampled: 07/21/10 10:55	Received: 07/21/10 18:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 310.2	08/04/10	07/23/10 07:25	7/23/2010 12:00

Client ID: 3301-MW12	Lab ID: C008825-03	Sampled: 07/21/10 10:15	Received: 07/21/10 18:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	08/18/10	07/27/10 07:20	7/27/2010 17:27
EPA 310.2	08/04/10	07/23/10 07:25	7/23/2010 08:41
EPA 353.2	07/23/10 10:15	07/23/10 06:29	7/23/2010 07:48
EPA 353.2	08/18/10	07/28/10 10:09	7/28/2010 12:20
EPA 353.2	08/18/10	07/29/10 12:45	7/29/2010 13:24
EPA 6010C	01/17/11	07/23/10 09:39	7/29/2010 15:58
EPA 6020A	01/17/11	07/23/10 09:42	7/28/2010 13:59
EPA 7470A	08/18/10	07/23/10 09:31	7/23/2010 19:34
EPA 8260B	08/04/10	07/28/10 09:28	7/28/2010 20:41
RSK-175	08/04/10	07/27/10 11:35	7/27/2010 15:54
SM 2540C	07/28/10	07/28/10 23:16	7/28/2010 23:16
SM 5210B	07/23/10 10:15	07/22/10 09:46	7/22/2010 09:46
SM 5220D	08/18/10	07/30/10 08:00	7/30/2010 10:30
SM18 4500-S D	07/28/10	07/26/10 14:28	7/26/2010 14:58
SM18 5310B	08/18/10	07/28/10 08:42	7/28/2010 12:30
VGC-13	08/04/10	07/26/10 10:22	7/26/2010 16:02

www.encolabs.com

Client ID: 3301-MW12	Lab ID: C008825-03RE1	Sampled: 07/21/10 10:15	Received: 07/21/10 18:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	08/18/10	07/27/10 07:20	7/27/2010 17:45
RSK-175	08/04/10	07/27/10 11:35	7/27/2010 16:13

Client ID: 3301-MW13	Lab ID: C008825-04	Sampled: 07/21/10 11:45	Received: 07/21/10 18:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	08/18/10	07/27/10 07:20	7/27/2010 18:04
EPA 353.2	07/23/10 11:45	07/23/10 06:29	7/23/2010 07:49
EPA 353.2	08/18/10	07/28/10 10:09	7/28/2010 12:20
EPA 353.2	08/18/10	07/29/10 12:45	7/29/2010 13:24
EPA 6010C	01/17/11	07/23/10 09:39	7/29/2010 16:01
EPA 6020A	01/17/11	07/23/10 09:42	7/28/2010 14:03
EPA 7470A	08/18/10	07/23/10 09:31	7/23/2010 19:43
EPA 8260B	08/04/10	07/28/10 09:28	7/28/2010 21:13
SM 2540C	07/28/10	07/28/10 23:16	7/28/2010 23:16
SM 5210B	07/23/10 11:45	07/23/10 10:06	7/23/2010 10:06
SM 5220D	08/18/10	07/30/10 08:00	7/30/2010 10:30
SM18 4500-S D	07/28/10	07/26/10 14:28	7/26/2010 14:58
SM18 5310B	08/18/10	07/28/10 08:42	7/28/2010 12:30

Client ID: 3301-MW13	Lab ID: C008825-04RE1	Sampled: 07/21/10 11:45	Received: 07/21/10 18:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	08/18/10	07/27/10 07:20	7/27/2010 18:23
EPA 310.2	08/04/10	07/23/10 07:25	7/23/2010 08:43
EPA 6010C	01/17/11	07/23/10 09:39	7/29/2010 17:34

Client ID: 3301-MW15	Lab ID: C008825-05	Sampled: 07/21/10 13:55	Received: 07/21/10 18:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	08/18/10	07/27/10 07:20	7/27/2010 18:41
EPA 353.2	07/23/10 13:55	07/23/10 06:29	7/23/2010 07:50
EPA 353.2	08/18/10	07/28/10 10:09	7/28/2010 12:21
EPA 353.2	08/18/10	07/29/10 12:45	7/29/2010 13:24
EPA 6010C	01/17/11	07/23/10 09:39	7/29/2010 16:05
EPA 6020A	01/17/11	07/23/10 09:42	7/28/2010 13:19
EPA 7470A	08/18/10	07/23/10 09:31	7/23/2010 19:46
EPA 8260B	08/04/10	07/28/10 09:28	7/28/2010 21:44
SM 2540C	07/28/10	07/28/10 23:16	7/28/2010 23:16
SM 5210B	07/23/10 13:55	07/23/10 10:06	7/23/2010 10:06
SM 5220D	08/18/10	07/30/10 08:00	7/30/2010 10:30
SM18 4500-S D	07/28/10	07/26/10 14:28	7/26/2010 14:58
SM18 5310B	08/18/10	07/28/10 08:42	7/28/2010 12:30

Client ID: 3301-MW15	Lab ID: C008825-05RE1	Sampled: 07/21/10 13:55	Received: 07/21/10 18:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 310.2	08/04/10	07/23/10 07:25	7/23/2010 08:44

www.encolabs.com

Client ID: 3301-Duplicate	Lab ID: C008825-06	Sampled: 07/21/10 00:00	Received: 07/21/10 18:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/17/11	07/23/10 09:39	7/29/2010 16:11
EPA 6020A	01/17/11	07/23/10 09:42	7/28/2010 14:06

Client ID: 3301-Duplicate	Lab ID: C008825-06RE1	Sampled: 07/21/10 00:00	Received: 07/21/10 18:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	08/04/10	07/30/10 08:06	7/30/2010 13:39

Client ID: 3301-Equipment Blank	Lab ID: C008825-07	Sampled: 07/21/10 15:00	Received: 07/21/10 18:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/17/11	07/23/10 09:39	7/29/2010 16:08
EPA 6020A	01/17/11	07/23/10 09:42	7/28/2010 14:10
EPA 8260B	08/04/10	07/28/10 09:28	7/28/2010 22:16

www.encolabs.com

NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 3301-MW3B **Lab ID: C008088-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	5.02	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	127		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.709	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.659	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	9600	J	1	2800	10000	NE	ug/L	SM 5220D	
Chloride	44000		1	18	5000	NE	ug/L	EPA 300.0	
Cobalt - Total	18.1		1	1.10	10.0	10	ug/L	EPA 6010C	
Iron - Total	971		1	22.0	50.0	300	ug/L	EPA 6010C	QB-01
Lead - Total	2.06	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Manganese - Total	44.6	J	1	1.10	10.0	50	ug/L	EPA 6010C	
Nickel - Total	17.7	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Nitrate as N	160	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	160		1	25	100	NE	ug/L	EPA 353.2	
Nitrite as N	5.9	JB	1	5.6	100	1000	ug/L	EPA 353.2	J-01
Selenium - Total	1.32	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Sulfate as SO4	61000	J	1	120	5000	250000	ug/L	EPA 300.0	
Thallium - Total	0.239	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Total Dissolved Solids	180000		1	10000	10000	NE	ug/L	SM 2540C	
Total Organic Carbon	1900		1	320	1000	NE	ug/L	SM18 5310B	
Vanadium - Total	3.51	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	31.4		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW4 **Lab ID: C008088-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	1.69	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	46.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Carbon dioxide	85900		1	780	2500	NE	ug/L	RSK-175	
Chemical Oxygen Demand	42000		1	2800	10000	NE	ug/L	SM 5220D	
Chloride	10000		1	18	5000	NE	ug/L	EPA 300.0	
Copper - Total	5.33	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Iron - Total	133	J	1	22.0	50.0	300	ug/L	EPA 6010C	J-01
Manganese - Total	11.5	J	1	1.10	10.0	50	ug/L	EPA 6010C	
Methane	3		1	0.2	1	NE	ug/L	RSK-175	
Nitrate as N	710	J	1	25	100	10000	ug/L	EPA 353.2	
Sulfate as SO4	64000	J	1	120	5000	250000	ug/L	EPA 300.0	
Total Alkalinity	55000		1	8000	15000	NE	ug/L	EPA 310.2	
Total Dissolved Solids	230000		1	10000	10000	NE	ug/L	SM 2540C	
Total Organic Carbon	14000		1	320	1000	NE	ug/L	SM18 5310B	
Vanadium - Total	1.47	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 3301-MW4 **Lab ID: C008088-02RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Nitrate/Nitrite as N	710		1	25	100	NE	ug/L	EPA 353.2	

Client ID: 3301-MW6 **Lab ID: C008088-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.46	J	1	0.33	1.0	5	ug/L	EPA 8260B	
Barium - Total	196		1	1.00	10.0	100	ug/L	EPA 6010C	
Chemical Oxygen Demand	36000		1	2800	10000	NE	ug/L	SM 5220D	

Client ID: 3301-MW6 **Lab ID: C008088-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chloride	46000		1	18	5000	NE	ug/L	EPA 300.0	
cis-1,2-Dichloroethene	0.67	J	1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	1.56	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Iron - Total	13800		1	22.0	50.0	300	ug/L	EPA 6010C	QB-01
Manganese - Total	177		1	1.10	10.0	50	ug/L	EPA 6010C	
Selenium - Total	2.10	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Silver - Total	2.00	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Sulfate as SO4	12000	J	1	120	5000	250000	ug/L	EPA 300.0	
Sulfide	73	J	1	31	100	1000	ug/L	SM18 4500-S D	
Total Alkalinity	150000		1	8000	15000	NE	ug/L	EPA 310.2	
Total Dissolved Solids	320000		1	10000	10000	NE	ug/L	SM 2540C	
Total Organic Carbon	8100		1	320	1000	NE	ug/L	SM18 5310B	
Vanadium - Total	2.25	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 3301-MW9 **Lab ID: C008088-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	128		1	1.00	10.0	100	ug/L	EPA 6010C	
Chloride	4000	J	1	18	5000	NE	ug/L	EPA 300.0	
Iron - Total	5600		1	22.0	50.0	300	ug/L	EPA 6010C	QB-01
Manganese - Total	104		1	1.10	10.0	50	ug/L	EPA 6010C	
Sulfate as SO4	2700	J	1	120	5000	250000	ug/L	EPA 300.0	
Total Alkalinity	97000		1	8000	15000	NE	ug/L	EPA 310.2	
Total Dissolved Solids	170000		1	10000	10000	NE	ug/L	SM 2540C	
Total Organic Carbon	780	J	1	320	1000	NE	ug/L	SM18 5310B	

Client ID: 3301-MW14 **Lab ID: C008088-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	215		1	1.00	10.0	100	ug/L	EPA 6010C	
Chemical Oxygen Demand	5300	J	1	2800	10000	NE	ug/L	SM 5220D	
Chloride	8900		1	18	5000	NE	ug/L	EPA 300.0	
Iron - Total	3620		1	22.0	50.0	300	ug/L	EPA 6010C	QB-01
Manganese - Total	114		1	1.10	10.0	50	ug/L	EPA 6010C	
Nitrite as N	5.9	JB	1	5.6	100	1000	ug/L	EPA 353.2	J-01
Sulfate as SO4	22000	J	1	120	5000	250000	ug/L	EPA 300.0	
Sulfide	44	J	1	31	100	1000	ug/L	SM18 4500-S D	
Total Alkalinity	180000		1	8000	15000	NE	ug/L	EPA 310.2	
Total Dissolved Solids	260000		1	10000	10000	NE	ug/L	SM 2540C	
Total Organic Carbon	3600		1	320	1000	NE	ug/L	SM18 5310B	

Client ID: 3301-MW16 **Lab ID: C008088-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	10.5		1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	282		1	1.00	10.0	100	ug/L	EPA 6010C	
Chemical Oxygen Demand	48000		1	2800	10000	NE	ug/L	SM 5220D	
Chloride	25000		1	18	5000	NE	ug/L	EPA 300.0	
Iron - Total	43800		1	22.0	50.0	300	ug/L	EPA 6010C	QB-01
Lead - Total	3.51	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Manganese - Total	364		1	1.10	10.0	50	ug/L	EPA 6010C	
Methane	5040		1	0.2	1	NE	ug/L	RSK-175	
Selenium - Total	1.78	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Total Dissolved Solids	310000		1	10000	10000	NE	ug/L	SM 2540C	

Client ID: 3301-MW16 **Lab ID: C008088-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Total Organic Carbon	15000		1	320	1000	NE	ug/L	SM18 5310B	
Vanadium - Total	1.86	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 3301-MW16 **Lab ID: C008088-06RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	308000	D	10	7800	25000	NE	ug/L	RSK-175	
Total Alkalinity	260000	D	2	16000	30000	NE	ug/L	EPA 310.2	

Client ID: 3301-MW5 **Lab ID: C008825-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	8.6	JD	10	3.3	10	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	9.4	JD	10	3.8	10	1	ug/L	EPA 8260B	
Arsenic - Total	29.4	B	1	2.80	10.0	10	ug/L	EPA 6010C	J-01
Barium - Total	158		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	5.1	JD	10	2.0	10	1	ug/L	EPA 8260B	
Biochemical Oxygen Demand	19000		1	2000	2000	NE	ug/L	SM 5210B	
Chemical Oxygen Demand	70000		1	2800	10000	NE	ug/L	SM 5220D	
Chloride	13000		1	18	5000	NE	ug/L	EPA 300.0	
Chlorobenzene	16	D	10	2.7	10	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	620	D	10	3.6	10	5	ug/L	EPA 8260B	
Cobalt - Total	143		1	1.10	10.0	10	ug/L	EPA 6010C	
Ethene	2		1	0.4	2	NE	ug/L	RSK-175	
Iron - Total	118000		1	22.0	50.0	300	ug/L	EPA 6010C	
Lead - Total	11.4		1	1.90	10.0	10	ug/L	EPA 6010C	
Methane	290		1	0.2	1	NE	ug/L	RSK-175	
Methylene chloride	16	BD	10	5.3	10	1	ug/L	EPA 8260B	
Nickel - Total	35.7	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Nitrate as N	67	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	67	J	1	25	100	NE	ug/L	EPA 353.2	
Selenium - Total	1.01	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Sulfate as SO4	42000	J	1	120	5000	250000	ug/L	EPA 300.0	
Total Dissolved Solids	580000		1	10000	10000	NE	ug/L	SM 2540C	
Total Organic Carbon	6100		1	320	1000	NE	ug/L	SM18 5310B	
trans-1,2-Dichloroethene	4.0	JD	10	3.4	10	5	ug/L	EPA 8260B	
Vanadium - Total	1.43	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Vinyl chloride	30	D	10	3.0	10	1	ug/L	EPA 8260B	
Zinc - Total	54.2		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW5 **Lab ID: C008825-01RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	467000	D	10	7800	25000	NE	ug/L	RSK-175	
Manganese - Total	33300	D	5	5.50	50.0	50	ug/L	EPA 6010C	

Client ID: 3301-MW5 **Lab ID: C008825-01RE2**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Total Alkalinity	590000	D	4	32000	60000	NE	ug/L	EPA 310.2	

Client ID: 3301-MW7A **Lab ID: C008825-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	0.62	J	1	0.38	1.0	1	ug/L	EPA 8260B	
Arsenic - Total	51.5	B	1	2.80	10.0	10	ug/L	EPA 6010C	QB-01

www.encolabs.com

Client ID: 3301-MW7A				Lab ID: C008825-02					
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Barium - Total	284		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	1.4		1	0.20	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.225	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	18000		1	2800	10000	NE	ug/L	SM 5220D	
Chloride	28000		1	18	5000	NE	ug/L	EPA 300.0	
Chlorobenzene	1.8	J	1	0.27	1.0	3	ug/L	EPA 8260B	
Chloroethane	2.3	J	1	0.30	1.0	10	ug/L	EPA 8260B	
Iron - Total	110000		1	22.0	50.0	300	ug/L	EPA 6010C	
Lead - Total	6.90	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Manganese - Total	266		1	1.10	10.0	50	ug/L	EPA 6010C	
Nitrate as N	90	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	90	J	1	25	100	NE	ug/L	EPA 353.2	
Selenium - Total	1.25	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Sulfate as SO4	2200	J	1	120	5000	250000	ug/L	EPA 300.0	
Total Dissolved Solids	380000		1	10000	10000	NE	ug/L	SM 2540C	
Total Organic Carbon	5500		1	320	1000	NE	ug/L	SM18 5310B	
Vanadium - Total	8.39	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 3301-MW7A				Lab ID: C008825-02RE1					
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Total Alkalinity	380000	D	2	16000	30000	NE	ug/L	EPA 310.2	

Client ID: 3301-MW12				Lab ID: C008825-03					
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
1,1-Dichloroethane	1.6	J	1	0.33	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	5.2		1	0.38	1.0	1	ug/L	EPA 8260B	
Acetone	3.9	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Barium - Total	244		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	3.1		1	0.20	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.497	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	20000		1	2800	10000	NE	ug/L	SM 5220D	
Chlorobenzene	3.4		1	0.27	1.0	3	ug/L	EPA 8260B	
Chloroethane	1.4	J	1	0.30	1.0	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	1.0	J	1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	11.5		1	1.10	10.0	10	ug/L	EPA 6010C	
Iron - Total	8550		1	22.0	50.0	300	ug/L	EPA 6010C	
Lead - Total	2.23	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Manganese - Total	73.6		1	1.10	10.0	50	ug/L	EPA 6010C	
Methane	62		1	0.2	1	NE	ug/L	RSK-175	
Nickel - Total	17.0	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Nitrate as N	180	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	180		1	25	100	NE	ug/L	EPA 353.2	
Selenium - Total	9.79	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Sulfate as SO4	51000	J	1	120	5000	250000	ug/L	EPA 300.0	
Total Alkalinity	8500	J	1	8000	15000	NE	ug/L	EPA 310.2	
Total Dissolved Solids	520000		1	10000	10000	NE	ug/L	SM 2540C	
Total Organic Carbon	11000		1	320	1000	NE	ug/L	SM18 5310B	
Vanadium - Total	1.49	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	127		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW12 **Lab ID: C008825-03RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	667000	D	10	7800	25000	NE	ug/L	RSK-175	
Chloride	150000	D	4	72	20000	NE	ug/L	EPA 300.0	

Client ID: 3301-MW13 **Lab ID: C008825-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	1.4	J	1	0.33	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	3.5		1	0.38	1.0	1	ug/L	EPA 8260B	
Arsenic - Total	6.41	JB	1	2.80	10.0	10	ug/L	EPA 6010C	J-01
Barium - Total	115		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	2.3		1	0.20	1.0	1	ug/L	EPA 8260B	
Chemical Oxygen Demand	64000		1	2800	10000	NE	ug/L	SM 5220D	
Chlorobenzene	14		1	0.27	1.0	3	ug/L	EPA 8260B	
Chloroethane	0.83	J	1	0.30	1.0	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	53		1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	1260		1	1.10	10.0	10	ug/L	EPA 6010C	
Iron - Total	29200		1	22.0	50.0	300	ug/L	EPA 6010C	
Lead - Total	8.12	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	244		1	1.80	10.0	50	ug/L	EPA 6010C	
Nitrate as N	120	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	120		1	25	100	NE	ug/L	EPA 353.2	
Selenium - Total	7.86	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Silver - Total	5.25	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Sulfate as SO4	41000	J	1	120	5000	250000	ug/L	EPA 300.0	
Thallium - Total	0.975	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Total Dissolved Solids	560000		1	10000	10000	NE	ug/L	SM 2540C	
Total Organic Carbon	8700		1	320	1000	NE	ug/L	SM18 5310B	
trans-1,2-Dichloroethene	0.60	J	1	0.34	1.0	5	ug/L	EPA 8260B	
Trichloroethene	1.4		1	0.38	1.0	1	ug/L	EPA 8260B	
Vinyl chloride	3.4		1	0.30	1.0	1	ug/L	EPA 8260B	
Zinc - Total	122		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW13 **Lab ID: C008825-04RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chloride	110000	D	2	36	10000	NE	ug/L	EPA 300.0	
Manganese - Total	36800	D	5	5.50	50.0	50	ug/L	EPA 6010C	
Total Alkalinity	260000	D	2	16000	30000	NE	ug/L	EPA 310.2	

Client ID: 3301-MW15 **Lab ID: C008825-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.94	J	1	0.33	1.0	5	ug/L	EPA 8260B	
1,2-Dichloropropane	2.4		1	0.20	1.0	1	ug/L	EPA 8260B	
Arsenic - Total	8.39	JB	1	2.80	10.0	10	ug/L	EPA 6010C	J-01
Barium - Total	306		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.55	J	1	0.20	1.0	1	ug/L	EPA 8260B	
Biochemical Oxygen Demand	2600		1	2000	2000	NE	ug/L	SM 5210B	
Chemical Oxygen Demand	16000		1	2800	10000	NE	ug/L	SM 5220D	
Chloride	14000		1	18	5000	NE	ug/L	EPA 300.0	
Chlorobenzene	1.4	J	1	0.27	1.0	3	ug/L	EPA 8260B	
Chloroethane	0.42	J	1	0.30	1.0	10	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	23		1	0.36	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	9.66	J	1	1.10	10.0	10	ug/L	EPA 6010C	

www.encolabs.com

Client ID: 3301-MW15 **Lab ID: C008825-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Iron - Total	16700		1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	6670		1	1.10	10.0	50	ug/L	EPA 6010C	
Nickel - Total	7.52	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Nitrate as N	140	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	140		1	25	100	NE	ug/L	EPA 353.2	
Selenium - Total	0.881	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Silver - Total	2.67	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Sulfate as SO4	14000	J	1	120	5000	250000	ug/L	EPA 300.0	
Total Dissolved Solids	460000		1	10000	10000	NE	ug/L	SM 2540C	
Total Organic Carbon	4800		1	320	1000	NE	ug/L	SM18 5310B	
trans-1,2-Dichloroethene	0.58	J	1	0.34	1.0	5	ug/L	EPA 8260B	
Vinyl chloride	2.9		1	0.30	1.0	1	ug/L	EPA 8260B	

Client ID: 3301-MW15 **Lab ID: C008825-05RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Total Alkalinity	410000	D	4	32000	60000	NE	ug/L	EPA 310.2	

Client ID: 3301-Duplicate **Lab ID: C008825-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	29.7	B	1	2.80	10.0	10	ug/L	EPA 6010C	J-01
Barium - Total	149		1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	137		1	1.10	10.0	10	ug/L	EPA 6010C	
Lead - Total	9.92	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	33.5	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Zinc - Total	51.6		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-Duplicate **Lab ID: C008825-06RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	9.7	JD	10	3.3	10	5	ug/L	EPA 8260B	
Benzene	5.6	JD	10	2.0	10	1	ug/L	EPA 8260B	
Chlorobenzene	16	D	10	2.7	10	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	610	D	10	3.6	10	5	ug/L	EPA 8260B	
Vinyl chloride	34	D	10	3.0	10	1	ug/L	EPA 8260B	

Client ID: 3301-Equipment Blank **Lab ID: C008825-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.683	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Arsenic - Total	3.45	JB	1	2.80	10.0	10	ug/L	EPA 6010C	J-01
Selenium - Total	1.22	J	1	0.830	1.00	10	ug/L	EPA 6020A	

www.encolabs.com

ANALYTICAL RESULTS

Description: 3301-MW3B
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C008088-01
Sampled: 07/20/10 10:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/21/10 13:30
Work Order: C008088

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/10 19:53	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/10 19:53	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/23/10 19:53	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/10 19:53	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/23/10 19:53	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/23/10 19:53	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/23/10 19:53	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/23/10 19:53	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/23/10 19:53	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/23/10 19:53	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/23/10 19:53	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/10 19:53	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 19:53	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/23/10 19:53	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/23/10 19:53	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/23/10 19:53	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/23/10 19:53	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/23/10 19:53	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/10 19:53	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/23/10 19:53	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/10 19:53	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/23/10 19:53	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/23/10 19:53	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/23/10 19:53	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 19:53	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/23/10 19:53	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/23/10 19:53	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/23/10 19:53	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/23/10 19:53	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/23/10 19:53	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/10 19:53	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/23/10 19:53	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/23/10 19:53	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/10 19:53	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/23/10 19:53	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/23/10 19:53	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/23/10 19:53	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/23/10 19:53	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/10 19:53	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/23/10 19:53	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 19:53	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/23/10 19:53	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 19:53	JKG	

www.encolabs.com

Description: 3301-MW3B
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C008088-01
Sampled: 07/20/10 10:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/21/10 13:30
Work Order: C008088

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/10 19:53	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/23/10 19:53	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/23/10 19:53	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/10 19:53	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*95 %*	*51-122*	*0G23019*	*EPA 8260B*	*07/23/10 19:53*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*101 %*	*68-117*	*0G23019*	*EPA 8260B*	*07/23/10 19:53*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*95 %*	*69-110*	*0G23019*	*EPA 8260B*	*07/23/10 19:53*	*JKG*	

www.encolabs.com

Description:	3301-MW3B	**Lab Sample ID:**	C008088-01	**Received:**	07/21/10 13:30
Matrix:	Ground Water	**Sampled:**	07/20/10 10:50	**Work Order:**	C008088
Project:	Edgecombe County Landfill - July	**Sampled By:**	Michelle Logut/Bob Bryant		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	07/23/10 17:16	NLH	

www.encolabs.com

Description: 3301-MW3B
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C008088-01
Sampled: 07/20/10 10:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/21/10 13:30
Work Order: C008088

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/28/10 10:47	VLO	
Arsenic [7440-38-2] ^	**5.02**	J	ug/L	1	2.80	10.0	10	EPA 6010C	08/02/10 14:20	JDH	
Barium [7440-39-3] ^	**127**		ug/L	1	1.00	10.0	100	EPA 6010C	08/02/10 14:20	JDH	
Beryllium [7440-41-7] ^	**0.709**	J	ug/L	1	0.100	1.00	1	EPA 6010C	08/02/10 14:20	JDH	
Cadmium [7440-43-9] ^	**0.659**	J	ug/L	1	0.360	1.00	1	EPA 6010C	08/02/10 14:20	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	08/02/10 14:20	JDH	
Cobalt [7440-48-4] ^	**18.1**		ug/L	1	1.10	10.0	10	EPA 6010C	08/02/10 14:20	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	08/02/10 14:20	JDH	
Iron [7439-89-6] ^	**971**		ug/L	1	22.0	50.0	300	EPA 6010C	08/02/10 14:20	JDH	QB-01
Lead [7439-92-1] ^	**2.06**	J	ug/L	1	1.90	10.0	10	EPA 6010C	08/02/10 14:20	JDH	
Manganese [7439-96-5] ^	**44.6**	J	ug/L	1	1.10	10.0	50	EPA 6010C	08/02/10 14:20	JDH	
Nickel [7440-02-0] ^	**17.7**	J	ug/L	1	1.80	10.0	50	EPA 6010C	08/02/10 14:20	JDH	
Selenium [7782-49-2] ^	**1.32**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/28/10 10:47	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	08/02/10 14:20	JDH	
Thallium [7440-28-0] ^	**0.239**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/28/10 10:47	VLO	
Vanadium [7440-62-2] ^	**3.51**	J	ug/L	1	1.40	10.0	25	EPA 6010C	08/02/10 14:20	JDH	
Zinc [7440-66-6] ^	**31.4**		ug/L	1	3.80	10.0	10	EPA 6010C	08/02/10 14:20	JDH	

www.encolabs.com

Description: 3301-MW3B
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C008088-01
Sampled: 07/20/10 10:50
Sampled By: Michelle Logut/Bob Bryant

Received: 07/21/10 13:30
Work Order: C008088

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	07/22/10 09:46	AJB	
Chemical Oxygen Demand [ECL-0035] ^	**9600**	J	ug/L	1	2800	10000	NE	SM 5220D	07/26/10 13:45	PEV	
Chloride [16887-00-6] ^	**44000**		ug/L	1	18	5000	NE	EPA 300.0	07/26/10 21:17	PEV	
Nitrate as N [14797-55-8] ^	**160**	J	ug/L	1	25	100	10000	EPA 353.2	07/29/10 13:21	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**160**		ug/L	1	25	100	NE	EPA 353.2	07/28/10 09:49	PEV	
Nitrite as N [14797-65-0] ^	**5.9**	JB	ug/L	1	5.6	100	1000	EPA 353.2	07/22/10 08:08	PEV	J-01
Sulfate as SO4 [14808-79-8] ^	**61000**	J	ug/L	1	120	5000	250000	EPA 300.0	07/26/10 21:17	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1000	SM18 4500-S D	07/26/10 14:58	JOC	
Total Alkalinity [471-34-1] ^	8000	U	ug/L	1	8000	15000	NE	EPA 310.2	07/23/10 08:19	PEV	
Total Dissolved Solids [ECL-0156] ^	**180000**		ug/L	1	10000	10000	NE	SM 2540C	07/25/10 23:26	CCB	

www.encolabs.com

Description:	3301-MW3B	**Lab Sample ID:**	C008088-01	**Received:**	07/21/10 13:30
Matrix:	Ground Water	**Sampled:**	07/20/10 10:50	**Work Order:**	C008088
Project:	Edgecombe County Landfill - July	**Sampled By:**	Michelle Logut/Bob Bryant		

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**1900**		ug/L	1	320	1000	NE	SM18 5310B	07/29/10 11:53	RSA	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 3301-MW4 | **Lab Sample ID:** C008088-02 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 12:05 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/10 20:23	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/10 20:23	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/23/10 20:23	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/10 20:23	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/23/10 20:23	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/23/10 20:23	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/23/10 20:23	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/23/10 20:23	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/23/10 20:23	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/23/10 20:23	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/23/10 20:23	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/10 20:23	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 20:23	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/23/10 20:23	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/23/10 20:23	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/23/10 20:23	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/23/10 20:23	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/23/10 20:23	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/10 20:23	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/23/10 20:23	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/10 20:23	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/23/10 20:23	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/23/10 20:23	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/23/10 20:23	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 20:23	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/23/10 20:23	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/23/10 20:23	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/23/10 20:23	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/23/10 20:23	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/23/10 20:23	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/10 20:23	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/23/10 20:23	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/23/10 20:23	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/10 20:23	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/23/10 20:23	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/23/10 20:23	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/23/10 20:23	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/23/10 20:23	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/10 20:23	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/23/10 20:23	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 20:23	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/23/10 20:23	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 20:23	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/10 20:23	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/23/10 20:23	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/23/10 20:23	JKG	

www.encolabs.com

Description: 3301-MW4 | **Lab Sample ID:** C008088-02 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 12:05 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/10 20:23	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*97 %*	*51-122*	*0G23019*	*EPA 8260B*	*07/23/10 20:23*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*101 %*	*68-117*	*0G23019*	*EPA 8260B*	*07/23/10 20:23*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*69-110*	*0G23019*	*EPA 8260B*	*07/23/10 20:23*	*JKG*	

www.encolabs.com

Description:	3301-MW4	**Lab Sample ID:**	C008088-02	**Received:**	07/21/10 13:30
Matrix:	Ground Water	**Sampled:**	07/20/10 12:05	**Work Order:**	C008088
Project:	Edgecombe County Landfill - July	**Sampled By:**	Michelle Logut/Bob Bryant		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	07/23/10 17:18	NLH	

www.encolabs.com

Description: 3301-MW4 | **Lab Sample ID:** C008088-02 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 12:05 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**1.69**	J	ug/L	1	0.220	2.00	6	EPA 6020A	07/28/10 10:51	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	08/02/10 14:23	JDH	
Barium [7440-39-3] ^	**46.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	08/02/10 14:23	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	08/02/10 14:23	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	08/02/10 14:23	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	08/02/10 14:23	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	08/02/10 14:23	JDH	
Copper [7440-50-8] ^	**5.33**	J	ug/L	1	1.60	10.0	10	EPA 6010C	08/02/10 14:23	JDH	
Iron [7439-89-6] ^	**133**	J	ug/L	1	22.0	50.0	300	EPA 6010C	08/02/10 14:23	JDH	J-01
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	08/02/10 14:23	JDH	
Manganese [7439-96-5] ^	**11.5**	J	ug/L	1	1.10	10.0	50	EPA 6010C	08/02/10 14:23	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	08/02/10 14:23	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	07/28/10 10:51	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	08/02/10 14:23	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/28/10 10:51	VLO	
Vanadium [7440-62-2] ^	**1.47**	J	ug/L	1	1.40	10.0	25	EPA 6010C	08/02/10 14:23	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	08/02/10 14:23	JDH	

www.encolabs.com

Description: 3301-MW4 | **Lab Sample ID:** C008088-02 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 12:05 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	07/22/10 09:46	AJB	
Chemical Oxygen Demand [ECL-0035] ^	**42000**		ug/L	1	2800	10000	NE	SM 5220D	07/26/10 13:45	PEV	
Chloride [16887-00-6] ^	**10000**		ug/L	1	18	5000	NE	EPA 300.0	07/26/10 21:36	PEV	
Nitrate as N [14797-55-8] ^	**710**	J	ug/L	1	25	100	10000	EPA 353.2	07/29/10 13:21	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**710**		ug/L	1	25	100	NE	EPA 353.2	07/28/10 11:05	PEV	
Nitrite as N [14797-65-0] ^	5.6	U	ug/L	1	5.6	100	1000	EPA 353.2	07/22/10 08:09	PEV	
Sulfate as SO4 [14808-79-8] ^	**64000**	J	ug/L	1	120	5000	250000	EPA 300.0	07/26/10 21:36	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1000	SM18 4500-S D	07/26/10 14:58	JOC	
Total Alkalinity [471-34-1] ^	**55000**		ug/L	1	8000	15000	NE	EPA 310.2	07/23/10 08:21	PEV	
Total Dissolved Solids [ECL-0156] ^	**230000**		ug/L	1	10000	10000	NE	SM 2540C	07/25/10 23:26	CCB	

www.encolabs.com

Description: 3301-MW4 | **Lab Sample ID:** C008088-02 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 12:05 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**14000**		ug/L	1	320	1000	NE	SM18 5310B	07/29/10 11:53	RSA	

www.encolabs.com

Description: 3301-MW4 | **Lab Sample ID:** C008088-02 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 12:05 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**85900**		ug/L	1	780	2500	NE	RSK-175	07/27/10 15:58	LAC	
Ethane [74-84-0]	0.4	U	ug/L	1	0.4	2	NE	RSK-175	07/27/10 15:58	LAC	
Ethene [74-85-1]	0.4	U	ug/L	1	0.4	2	NE	RSK-175	07/27/10 15:58	LAC	
Methane [74-82-8]	**3**		ug/L	1	0.2	1	NE	RSK-175	07/27/10 15:58	LAC	

www.encolabs.com

Description: 3301-MW4 | **Lab Sample ID:** C008088-02 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 12:05 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	83	U	ug/L	1	83	500	NE	VGC-13	07/26/10 17:05	MEF	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	VGC-13	07/26/10 17:05	MEF	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		VGC-13	07/26/10 17:05	MEF	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		VGC-13	07/26/10 17:05	MEF	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		VGC-13	07/26/10 17:05	MEF	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		VGC-13	07/26/10 17:05	MEF	
Lactic Acid [50-21-5]	440	U	ug/L	1	440	500	NE	VGC-13	07/26/10 17:05	MEF	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		VGC-13	07/26/10 17:05	MEF	
Propionic Acid [79-09-4]	180	U	ug/L	1	180	500	NE	VGC-13	07/26/10 17:05	MEF	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	VGC-13	07/26/10 17:05	MEF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*150000*	*1*	*125000*	*123 %*	*80-124*	*0G26005*	*VGC-13*	*07/26/10 17:05*	*MEF*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 3301-MW6 | **Lab Sample ID:** C008088-03 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 15:00 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/10 20:52	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/10 20:52	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/23/10 20:52	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/10 20:52	JKG	
1,1-Dichloroethane [75-34-3] ^	**0.46**	J	ug/L	1	0.33	1.0	5	EPA 8260B	07/23/10 20:52	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/23/10 20:52	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/23/10 20:52	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/23/10 20:52	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/23/10 20:52	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/23/10 20:52	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/23/10 20:52	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/10 20:52	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 20:52	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/23/10 20:52	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/23/10 20:52	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/23/10 20:52	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/23/10 20:52	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/23/10 20:52	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/10 20:52	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/23/10 20:52	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/10 20:52	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/23/10 20:52	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/23/10 20:52	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/23/10 20:52	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 20:52	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/23/10 20:52	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/23/10 20:52	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/23/10 20:52	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/23/10 20:52	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**0.67**	J	ug/L	1	0.36	1.0	5	EPA 8260B	07/23/10 20:52	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/10 20:52	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/23/10 20:52	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/23/10 20:52	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/10 20:52	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/23/10 20:52	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/23/10 20:52	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/23/10 20:52	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/23/10 20:52	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/10 20:52	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/23/10 20:52	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 20:52	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/23/10 20:52	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 20:52	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/10 20:52	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/23/10 20:52	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/23/10 20:52	JKG	

www.encolabs.com

Description: 3301-MW6 | **Lab Sample ID:** C008088-03 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 15:00 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/10 20:52	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*95 %*	*51-122*	*0G23019*	*EPA 8260B*	*07/23/10 20:52*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*103 %*	*68-117*	*0G23019*	*EPA 8260B*	*07/23/10 20:52*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0G23019*	*EPA 8260B*	*07/23/10 20:52*	*JKG*	

www.encolabs.com

Description: 3301-MW6 | **Lab Sample ID:** C008088-03 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 15:00 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	07/23/10 17:43	NLH	

www.encolabs.com

Description: 3301-MW6 | **Lab Sample ID:** C008088-03 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 15:00 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/28/10 10:54	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	08/02/10 14:26	JDH	
Barium [7440-39-3] ^	**196**		ug/L	1	1.00	10.0	100	EPA 6010C	08/02/10 14:26	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	08/02/10 14:26	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	08/02/10 14:26	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	08/02/10 14:26	JDH	
Cobalt [7440-48-4] ^	**1.56**	J	ug/L	1	1.10	10.0	10	EPA 6010C	08/02/10 14:26	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	08/02/10 14:26	JDH	
Iron [7439-89-6] ^	**13800**		ug/L	1	22.0	50.0	300	EPA 6010C	08/02/10 14:26	JDH	QB-01
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	08/02/10 14:26	JDH	
Manganese [7439-96-5] ^	**177**		ug/L	1	1.10	10.0	50	EPA 6010C	08/02/10 14:26	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	08/02/10 14:26	JDH	
Selenium [7782-49-2] ^	**2.10**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/28/10 10:54	VLO	
Silver [7440-22-4] ^	**2.00**	J	ug/L	1	1.90	10.0	10	EPA 6010C	08/02/10 14:26	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/28/10 10:54	VLO	
Vanadium [7440-62-2] ^	**2.25**	J	ug/L	1	1.40	10.0	25	EPA 6010C	08/02/10 14:26	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	08/02/10 14:26	JDH	

www.encolabs.com

Description: 3301-MW6 | **Lab Sample ID:** C008088-03 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 15:00 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	07/22/10 09:46	AJB	
Chemical Oxygen Demand [ECL-0035] ^	**36000**		ug/L	1	2800	10000	NE	SM 5220D	07/26/10 13:45	PEV	
Chloride [16887-00-6] ^	**46000**		ug/L	1	18	5000	NE	EPA 300.0	07/26/10 21:55	PEV	
Nitrate as N [14797-55-8] ^	25	U	ug/L	1	25	100	10000	EPA 353.2	07/29/10 13:21	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	25	U	ug/L	1	25	100	NE	EPA 353.2	07/28/10 09:58	PEV	
Nitrite as N [14797-65-0] ^	5.6	U	ug/L	1	5.6	100	1000	EPA 353.2	07/22/10 08:10	PEV	
Sulfate as SO4 [14808-79-8] ^	**12000**	J	ug/L	1	120	5000	250000	EPA 300.0	07/26/10 21:55	PEV	
Sulfide [18496-25-8] ^	**73**	J	ug/L	1	31	100	1000	SM18 4500-S D	07/26/10 14:58	JOC	
Total Alkalinity [471-34-1] ^	**150000**		ug/L	1	8000	15000	NE	EPA 310.2	07/23/10 08:22	PEV	
Total Dissolved Solids [ECL-0156] ^	**320000**		ug/L	1	10000	10000	NE	SM 2540C	07/25/10 23:26	CCB	

www.encolabs.com

Description:	3301-MW6	**Lab Sample ID:**	C008088-03	**Received:**	07/21/10 13:30
Matrix:	Ground Water	**Sampled:**	07/20/10 15:00	**Work Order:**	C008088
Project:	Edgecombe County Landfill - July	**Sampled By:**	Michelle Logut/Bob Bryant		

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**8100**		ug/L	1	320	1000	NE	SM18 5310B	07/29/10 11:53	RSA	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 3301-MW9 | **Lab Sample ID:** C008088-04 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 10:05 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/10 21:21	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/10 21:21	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/23/10 21:21	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/10 21:21	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/23/10 21:21	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/23/10 21:21	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/23/10 21:21	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/23/10 21:21	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/23/10 21:21	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/23/10 21:21	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/23/10 21:21	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/10 21:21	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 21:21	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/23/10 21:21	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/23/10 21:21	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/23/10 21:21	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/23/10 21:21	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/23/10 21:21	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/10 21:21	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/23/10 21:21	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/10 21:21	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/23/10 21:21	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/23/10 21:21	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/23/10 21:21	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 21:21	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/23/10 21:21	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/23/10 21:21	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/23/10 21:21	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/23/10 21:21	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/23/10 21:21	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/10 21:21	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/23/10 21:21	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/23/10 21:21	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/10 21:21	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/23/10 21:21	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/23/10 21:21	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/23/10 21:21	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/23/10 21:21	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/10 21:21	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/23/10 21:21	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 21:21	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/23/10 21:21	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 21:21	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/10 21:21	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/23/10 21:21	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/23/10 21:21	JKG	

www.encolabs.com

Description: 3301-MW9 | **Lab Sample ID:** C008088-04 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 10:05 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/10 21:21	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*95 %*	*51-122*	*0G23019*	*EPA 8260B*	*07/23/10 21:21*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*68-117*	*0G23019*	*EPA 8260B*	*07/23/10 21:21*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0G23019*	*EPA 8260B*	*07/23/10 21:21*	*JKG*	

www.encolabs.com

Description:	3301-MW9	**Lab Sample ID:**	C008088-04	**Received:**	07/21/10 13:30
Matrix:	Ground Water	**Sampled:**	07/20/10 10:05	**Work Order:**	C008088
Project:	Edgecombe County Landfill - July	**Sampled By:**	Michelle Logut/Bob Bryant		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	07/23/10 17:46	NLH	

www.encolabs.com

Description: 3301-MW9 | **Lab Sample ID:** C008088-04 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 10:05 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/28/10 10:58	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	08/02/10 14:30	JDH	
Barium [7440-39-3] ^	**128**		ug/L	1	1.00	10.0	100	EPA 6010C	08/02/10 14:30	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	08/02/10 14:30	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	08/02/10 14:30	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	08/02/10 14:30	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	08/02/10 14:30	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	08/02/10 14:30	JDH	
Iron [7439-89-6] ^	**5600**		ug/L	1	22.0	50.0	300	EPA 6010C	08/02/10 14:30	JDH	QB-01
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	08/02/10 14:30	JDH	
Manganese [7439-96-5] ^	**104**		ug/L	1	1.10	10.0	50	EPA 6010C	08/02/10 14:30	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	08/02/10 14:30	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	07/28/10 10:58	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	08/02/10 14:30	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/28/10 10:58	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	08/02/10 14:30	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	08/02/10 14:30	JDH	

www.encolabs.com

Description: 3301-MW9 | **Lab Sample ID:** C008088-04 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 10:05 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	07/22/10 09:46	AJB	
Chemical Oxygen Demand [ECL-0035] ^	2800	U	ug/L	1	2800	10000	NE	SM 5220D	07/26/10 13:45	PEV	
Chloride [16887-00-6] ^	**4000**	J	ug/L	1	18	5000	NE	EPA 300.0	07/26/10 22:13	PEV	
Nitrate as N [14797-55-8] ^	25	U	ug/L	1	25	100	10000	EPA 353.2	07/29/10 13:21	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	25	U	ug/L	1	25	100	NE	EPA 353.2	07/28/10 10:00	PEV	
Nitrite as N [14797-65-0] ^	5.6	U	ug/L	1	5.6	100	1000	EPA 353.2	07/22/10 08:11	PEV	
Sulfate as SO4 [14808-79-8] ^	**2700**	J	ug/L	1	120	5000	250000	EPA 300.0	07/26/10 22:13	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1000	SM18 4500-S D	07/26/10 14:58	JOC	
Total Alkalinity [471-34-1] ^	**97000**		ug/L	1	8000	15000	NE	EPA 310.2	07/23/10 08:23	PEV	
Total Dissolved Solids [ECL-0156] ^	**170000**		ug/L	1	10000	10000	NE	SM 2540C	07/25/10 23:26	CCB	

www.encolabs.com

Description:	3301-MW9	**Lab Sample ID:**	C008088-04	**Received:**	07/21/10 13:30
Matrix:	Ground Water	**Sampled:**	07/20/10 10:05	**Work Order:**	C008088
Project:	Edgecombe County Landfill - July	**Sampled By:**	Michelle Logut/Bob Bryant		

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**780**	J	ug/L	1	320	1000	NE	SM18 5310B	07/29/10 11:53	RSA	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 3301-MW14 | **Lab Sample ID:** C008088-05 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 14:10 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/10 21:51	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/10 21:51	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/23/10 21:51	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/10 21:51	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/23/10 21:51	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/23/10 21:51	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/23/10 21:51	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/23/10 21:51	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/23/10 21:51	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/23/10 21:51	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/23/10 21:51	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/10 21:51	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 21:51	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/23/10 21:51	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/23/10 21:51	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/23/10 21:51	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/23/10 21:51	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/23/10 21:51	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/10 21:51	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/23/10 21:51	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/10 21:51	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/23/10 21:51	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/23/10 21:51	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/23/10 21:51	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 21:51	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/23/10 21:51	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/23/10 21:51	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/23/10 21:51	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/23/10 21:51	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/23/10 21:51	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/10 21:51	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/23/10 21:51	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/23/10 21:51	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/10 21:51	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/23/10 21:51	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/23/10 21:51	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/23/10 21:51	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/23/10 21:51	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/10 21:51	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/23/10 21:51	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 21:51	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/23/10 21:51	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 21:51	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/10 21:51	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/23/10 21:51	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/23/10 21:51	JKG	

www.encolabs.com

Description: 3301-MW14 | **Lab Sample ID:** C008088-05 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 14:10 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/10 21:51	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*93 %*	*51-122*	*0G23019*	*EPA 8260B*	*07/23/10 21:51*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*101 %*	*68-117*	*0G23019*	*EPA 8260B*	*07/23/10 21:51*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0G23019*	*EPA 8260B*	*07/23/10 21:51*	*JKG*	

www.encolabs.com

Description:	3301-MW14	**Lab Sample ID:**	C008088-05	**Received:**	07/21/10 13:30
Matrix:	Ground Water	**Sampled:**	07/20/10 14:10	**Work Order:**	C008088
Project:	Edgecombe County Landfill - July	**Sampled By:**	Michelle Logut/Bob Bryant		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	07/23/10 17:48	NLH	

www.encolabs.com

Description: 3301-MW14 | **Lab Sample ID:** C008088-05 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 14:10 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/28/10 11:02	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	08/02/10 14:33	JDH	
Barium [7440-39-3] ^	**215**		ug/L	1	1.00	10.0	100	EPA 6010C	08/02/10 14:33	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	08/02/10 14:33	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	08/02/10 14:33	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	08/02/10 14:33	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	08/02/10 14:33	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	08/02/10 14:33	JDH	
Iron [7439-89-6] ^	**3620**		ug/L	1	22.0	50.0	300	EPA 6010C	08/02/10 14:33	JDH	QB-01
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	08/02/10 14:33	JDH	
Manganese [7439-96-5] ^	**114**		ug/L	1	1.10	10.0	50	EPA 6010C	08/02/10 14:33	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	08/02/10 14:33	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	07/28/10 11:02	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	08/02/10 14:33	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/28/10 11:02	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	08/02/10 14:33	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	08/02/10 14:33	JDH	

www.encolabs.com

Description: 3301-MW14 | **Lab Sample ID:** C008088-05 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 14:10 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	07/22/10 09:46	AJB	
Chemical Oxygen Demand [ECL-0035] ^	**5300**	J	ug/L	1	2800	10000	NE	SM 5220D	07/26/10 13:45	PEV	
Chloride [16887-00-6] ^	**8900**		ug/L	1	18	5000	NE	EPA 300.0	07/26/10 22:32	PEV	
Nitrate as N [14797-55-8] ^	25	U	ug/L	1	25	100	10000	EPA 353.2	07/29/10 13:21	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	25	U	ug/L	1	25	100	NE	EPA 353.2	07/28/10 10:02	PEV	
Nitrite as N [14797-65-0] ^	**5.9**	JB	ug/L	1	5.6	100	1000	EPA 353.2	07/22/10 08:12	PEV	J-01
Sulfate as SO4 [14808-79-8] ^	**22000**	J	ug/L	1	120	5000	250000	EPA 300.0	07/26/10 22:32	PEV	
Sulfide [18496-25-8] ^	**44**	J	ug/L	1	31	100	1000	SM18 4500-S D	07/26/10 14:58	JOC	
Total Alkalinity [471-34-1] ^	**180000**		ug/L	1	8000	15000	NE	EPA 310.2	07/23/10 08:24	PEV	
Total Dissolved Solids [ECL-0156] ^	**260000**		ug/L	1	10000	10000	NE	SM 2540C	07/25/10 23:26	CCB	

www.encolabs.com

Description: 3301-MW14 | **Lab Sample ID:** C008088-05 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 14:10 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**3600**		ug/L	1	320	1000	NE	SM18 5310B	07/29/10 11:53	RSA	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 3301-MW16 | **Lab Sample ID:** C008088-06 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 16:15 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/10 22:20	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/10 22:20	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/23/10 22:20	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/10 22:20	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/23/10 22:20	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/23/10 22:20	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/23/10 22:20	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/23/10 22:20	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/23/10 22:20	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/23/10 22:20	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/23/10 22:20	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/10 22:20	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 22:20	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/23/10 22:20	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/23/10 22:20	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/23/10 22:20	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/23/10 22:20	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/23/10 22:20	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/10 22:20	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/23/10 22:20	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/10 22:20	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/23/10 22:20	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/23/10 22:20	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/23/10 22:20	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 22:20	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/23/10 22:20	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/23/10 22:20	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/23/10 22:20	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/23/10 22:20	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/23/10 22:20	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/10 22:20	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/23/10 22:20	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/23/10 22:20	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/10 22:20	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/23/10 22:20	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/23/10 22:20	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/23/10 22:20	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/23/10 22:20	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/10 22:20	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/23/10 22:20	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 22:20	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/23/10 22:20	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 22:20	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/10 22:20	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/23/10 22:20	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/23/10 22:20	JKG	

www.encolabs.com

Description: 3301-MW16 | **Lab Sample ID:** C008088-06 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 16:15 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/10 22:20	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*95 %*	*51-122*	*0G23019*	*EPA 8260B*	*07/23/10 22:20*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*68-117*	*0G23019*	*EPA 8260B*	*07/23/10 22:20*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*0G23019*	*EPA 8260B*	*07/23/10 22:20*	*JKG*	

www.encolabs.com

Description: 3301-MW16 | **Lab Sample ID:** C008088-06 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 16:15 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	07/23/10 17:51	NLH	

www.encolabs.com

Description: 3301-MW16 | **Lab Sample ID:** C008088-06 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 16:15 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/28/10 11:05	VLO	
Arsenic [7440-38-2] ^	**10.5**		ug/L	1	2.80	10.0	10	EPA 6010C	08/02/10 14:36	JDH	
Barium [7440-39-3] ^	**282**		ug/L	1	1.00	10.0	100	EPA 6010C	08/02/10 14:36	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	08/02/10 14:36	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	08/02/10 14:36	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	08/02/10 14:36	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	08/02/10 14:36	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	08/02/10 14:36	JDH	
Iron [7439-89-6] ^	**43800**		ug/L	1	22.0	50.0	300	EPA 6010C	08/02/10 14:36	JDH	QB-01
Lead [7439-92-1] ^	**3.51**	J	ug/L	1	1.90	10.0	10	EPA 6010C	08/02/10 14:36	JDH	
Manganese [7439-96-5] ^	**364**		ug/L	1	1.10	10.0	50	EPA 6010C	08/02/10 14:36	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	08/02/10 14:36	JDH	
Selenium [7782-49-2] ^	**1.78**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/28/10 11:05	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	08/02/10 14:36	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/28/10 11:05	VLO	
Vanadium [7440-62-2] ^	**1.86**	J	ug/L	1	1.40	10.0	25	EPA 6010C	08/02/10 14:36	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	08/02/10 14:36	JDH	

www.encolabs.com

Description: 3301-MW16 | **Lab Sample ID:** C008088-06 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 16:15 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	07/22/10 09:46	AJB	
Chemical Oxygen Demand [ECL-0035] ^	**48000**		ug/L	1	2800	10000	NE	SM 5220D	07/26/10 13:45	PEV	
Chloride [16887-00-6] ^	**25000**		ug/L	1	18	5000	NE	EPA 300.0	07/26/10 22:51	PEV	
Nitrate as N [14797-55-8] ^	25	U	ug/L	1	25	100	10000	EPA 353.2	07/29/10 13:21	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	25	U	ug/L	1	25	100	NE	EPA 353.2	07/28/10 10:04	PEV	
Nitrite as N [14797-65-0] ^	5.6	U	ug/L	1	5.6	100	1000	EPA 353.2	07/22/10 08:13	PEV	
Sulfate as SO4 [14808-79-8] ^	120	U	ug/L	1	120	5000	250000	EPA 300.0	07/26/10 22:51	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1000	SM18 4500-S D	07/26/10 14:58	JOC	
Total Alkalinity [471-34-1] ^	**260000**	D	ug/L	2	16000	30000	NE	EPA 310.2	07/23/10 08:28	PEV	
Total Dissolved Solids [ECL-0156] ^	**310000**		ug/L	1	10000	10000	NE	SM 2540C	07/25/10 23:26	CCB	

www.encolabs.com

Description: 3301-MW16 | **Lab Sample ID:** C008088-06 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 16:15 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**15000**		ug/L	1	320	1000	NE	SM18 5310B	07/29/10 11:53	RSA	

www.encolabs.com

Description: 3301-MW16
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C008088-06
Sampled: 07/20/10 16:15
Sampled By: Michelle Logut/Bob Bryant

Received: 07/21/10 13:30
Work Order: C008088

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**308000**	D	ug/L	10	7800	25000	NE	RSK-175	07/27/10 16:16	LAC	
Ethane [74-84-0]	0.4	U	ug/L	1	0.4	2	NE	RSK-175	07/27/10 16:02	LAC	
Ethene [74-85-1]	0.4	U	ug/L	1	0.4	2	NE	RSK-175	07/27/10 16:02	LAC	
Methane [74-82-8]	**5040**		ug/L	1	0.2	1	NE	RSK-175	07/27/10 16:02	LAC	

www.encolabs.com

Description: 3301-MW16 | **Lab Sample ID:** C008088-06 | **Received:** 07/21/10 13:30

Matrix: Ground Water | **Sampled:** 07/20/10 16:15 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut/Bob Bryant

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	83	U	ug/L	1	83	500	NE	VGC-13	07/26/10 18:07	MEF	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	VGC-13	07/26/10 18:07	MEF	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		VGC-13	07/26/10 18:07	MEF	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		VGC-13	07/26/10 18:07	MEF	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		VGC-13	07/26/10 18:07	MEF	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		VGC-13	07/26/10 18:07	MEF	
Lactic Acid [50-21-5]	440	U	ug/L	1	440	500	NE	VGC-13	07/26/10 18:07	MEF	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		VGC-13	07/26/10 18:07	MEF	
Propionic Acid [79-09-4]	180	U	ug/L	1	180	500	NE	VGC-13	07/26/10 18:07	MEF	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	VGC-13	07/26/10 18:07	MEF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*140000*	*1*	*125000*	*115 %*	*80-124*	*0G26005*	*VGC-13*	*07/26/10 18:07*	*MEF*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 3301-Trip Blank | **Lab Sample ID:** C008088-07 | **Received:** 07/21/10 13:30
Matrix: Water | **Sampled:** 07/20/10 10:05 | **Work Order:** C008088
Project: Edgecombe County Landfill - July | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/10 22:49	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/10 22:49	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/23/10 22:49	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/10 22:49	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/23/10 22:49	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/23/10 22:49	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/23/10 22:49	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/23/10 22:49	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/23/10 22:49	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/23/10 22:49	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/23/10 22:49	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/10 22:49	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 22:49	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/23/10 22:49	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/23/10 22:49	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/23/10 22:49	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/23/10 22:49	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/23/10 22:49	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/10 22:49	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/23/10 22:49	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/23/10 22:49	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/23/10 22:49	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/23/10 22:49	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/23/10 22:49	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 22:49	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/23/10 22:49	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/23/10 22:49	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/23/10 22:49	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/23/10 22:49	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/23/10 22:49	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/10 22:49	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/23/10 22:49	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/23/10 22:49	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/23/10 22:49	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/23/10 22:49	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/23/10 22:49	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/23/10 22:49	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/23/10 22:49	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/23/10 22:49	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/23/10 22:49	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 22:49	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/23/10 22:49	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/23/10 22:49	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/23/10 22:49	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/23/10 22:49	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/23/10 22:49	JKG	

www.encolabs.com

Description: 3301-Trip Blank | **Lab Sample ID:** C008088-07 | **Received:** 07/21/10 13:30

Matrix: Water | **Sampled:** 07/20/10 10:05 | **Work Order:** C008088

Project: Edgecombe County Landfill - July | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/23/10 22:49	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*51-122*	*0G23019*	*EPA 8260B*	*07/23/10 22:49*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*68-117*	*0G23019*	*EPA 8260B*	*07/23/10 22:49*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*69-110*	*0G23019*	*EPA 8260B*	*07/23/10 22:49*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 3301-MW5 | **Lab Sample ID:** C008825-01 | **Received:** 07/21/10 18:15

Matrix: Ground Water | **Sampled:** 07/21/10 14:55 | **Work Order:** C008825

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut, Jerry Paul

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	4.0	UD	ug/L	10	4.0	10	5	EPA 8260B	07/24/10 09:38	JKG	
1,1,1-Trichloroethane [71-55-6] ^	2.7	UD	ug/L	10	2.7	10	1	EPA 8260B	07/24/10 09:38	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	3.3	UD	ug/L	10	3.3	10	3	EPA 8260B	07/24/10 09:38	JKG	
1,1,2-Trichloroethane [79-00-5] ^	3.7	UD	ug/L	10	3.7	10	1	EPA 8260B	07/24/10 09:38	JKG	
1,1-Dichloroethane [75-34-3] ^	**8.6**	JD	ug/L	10	3.3	10	5	EPA 8260B	07/24/10 09:38	JKG	
1,1-Dichloroethene [75-35-4] ^	2.4	UD	ug/L	10	2.4	10	5	EPA 8260B	07/24/10 09:38	JKG	
1,2,3-Trichloropropane [96-18-4] ^	5.5	UD	ug/L	10	5.5	10	1	EPA 8260B	07/24/10 09:38	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	4.8	UD	ug/L	10	4.8	10	13	EPA 8260B	07/24/10 09:38	JKG	
1,2-Dibromoethane [106-93-4] ^	4.2	UD	ug/L	10	4.2	10	1	EPA 8260B	07/24/10 09:38	JKG	
1,2-Dichlorobenzene [95-50-1] ^	2.7	UD	ug/L	10	2.7	10	5	EPA 8260B	07/24/10 09:38	JKG	
1,2-Dichloroethane [107-06-2] ^	6.5	UD	ug/L	10	6.5	10	1	EPA 8260B	07/24/10 09:38	JKG	
1,2-Dichloropropane [78-87-5] ^	2.0	UD	ug/L	10	2.0	10	1	EPA 8260B	07/24/10 09:38	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**9.4**	JD	ug/L	10	3.8	10	1	EPA 8260B	07/24/10 09:38	JKG	
2-Butanone [78-93-3] ^	10	UD	ug/L	10	10	50	100	EPA 8260B	07/24/10 09:38	JKG	
2-Hexanone [591-78-6] ^	6.9	UD	ug/L	10	6.9	50	50	EPA 8260B	07/24/10 09:38	JKG	
4-Methyl-2-pentanone [108-10-1] ^	11	UD	ug/L	10	11	50	100	EPA 8260B	07/24/10 09:38	JKG	
Acetone [67-64-1] ^	15	UD	ug/L	10	15	50	100	EPA 8260B	07/24/10 09:38	JKG	
Acrylonitrile [107-13-1] ^	21	UD	ug/L	10	21	100	200	EPA 8260B	07/24/10 09:38	JKG	
Benzene [71-43-2] ^	**5.1**	JD	ug/L	10	2.0	10	1	EPA 8260B	07/24/10 09:38	JKG	
Bromochloromethane [74-97-5] ^	4.2	UD	ug/L	10	4.2	10	3	EPA 8260B	07/24/10 09:38	JKG	
Bromodichloromethane [75-27-4] ^	3.7	UD	ug/L	10	3.7	10	1	EPA 8260B	07/24/10 09:38	JKG	
Bromoform [75-25-2] ^	7.1	UD	ug/L	10	7.1	10	3	EPA 8260B	07/24/10 09:38	JKG	
Bromomethane [74-83-9] ^	4.9	UD	ug/L	10	4.9	10	10	EPA 8260B	07/24/10 09:38	JKG	
Carbon disulfide [75-15-0] ^	5.4	UD	ug/L	10	5.4	50	100	EPA 8260B	07/24/10 09:38	JKG	
Carbon tetrachloride [56-23-5] ^	3.8	UD	ug/L	10	3.8	10	1	EPA 8260B	07/24/10 09:38	JKG	
Chlorobenzene [108-90-7] ^	**16**	D	ug/L	10	2.7	10	3	EPA 8260B	07/24/10 09:38	JKG	
Chloroethane [75-00-3] ^	3.0	UD	ug/L	10	3.0	10	10	EPA 8260B	07/24/10 09:38	JKG	
Chloroform [67-66-3] ^	2.0	UD	ug/L	10	2.0	10	5	EPA 8260B	07/24/10 09:38	JKG	
Chloromethane [74-87-3] ^	3.4	UD	ug/L	10	3.4	10	1	EPA 8260B	07/24/10 09:38	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**620**	D	ug/L	10	3.6	10	5	EPA 8260B	07/24/10 09:38	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	2.8	UD	ug/L	10	2.8	10	1	EPA 8260B	07/24/10 09:38	JKG	
Dibromochloromethane [124-48-1] ^	3.2	UD	ug/L	10	3.2	10	3	EPA 8260B	07/24/10 09:38	JKG	
Dibromomethane [74-95-3] ^	3.7	UD	ug/L	10	3.7	10	10	EPA 8260B	07/24/10 09:38	JKG	
Ethylbenzene [100-41-4] ^	2.0	UD	ug/L	10	2.0	10	1	EPA 8260B	07/24/10 09:38	JKG	
Iodomethane [74-88-4] ^	5.2	UD	ug/L	10	5.2	50	10	EPA 8260B	07/24/10 09:38	JKG	
Methylene chloride [75-09-2] ^	**16**	BD	ug/L	10	5.3	10	1	EPA 8260B	07/24/10 09:38	JKG	
Styrene [100-42-5] ^	2.6	UD	ug/L	10	2.6	10	1	EPA 8260B	07/24/10 09:38	JKG	
Tetrachloroethene [127-18-4] ^	3.6	UD	ug/L	10	3.6	10	1	EPA 8260B	07/24/10 09:38	JKG	
Toluene [108-88-3] ^	2.7	UD	ug/L	10	2.7	10	1	EPA 8260B	07/24/10 09:38	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	**4.0**	JD	ug/L	10	3.4	10	5	EPA 8260B	07/24/10 09:38	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	3.8	UD	ug/L	10	3.8	10	1	EPA 8260B	07/24/10 09:38	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	5.4	UD	ug/L	10	5.4	10	100	EPA 8260B	07/24/10 09:38	JKG	
Trichloroethene [79-01-6] ^	3.8	UD	ug/L	10	3.8	10	1	EPA 8260B	07/24/10 09:38	JKG	
Trichlorofluoromethane [75-69-4] ^	2.8	UD	ug/L	10	2.8	10	1	EPA 8260B	07/24/10 09:38	JKG	
Vinyl acetate [108-05-4] ^	9.8	UD	ug/L	10	9.8	50	50	EPA 8260B	07/24/10 09:38	JKG	
Vinyl chloride [75-01-4] ^	**30**	D	ug/L	10	3.0	10	1	EPA 8260B	07/24/10 09:38	JKG	

www.encolabs.com

Description: 3301-MW5 | **Lab Sample ID:** C008825-01 | **Received:** 07/21/10 18:15

Matrix: Ground Water | **Sampled:** 07/21/10 14:55 | **Work Order:** C008825

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut, Jerry Paul

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	4.0	UD	ug/L	10	4.0	10	5	EPA 8260B	07/24/10 09:38	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*40*	*1*	*50.0*	*80 %*	*51-122*	*0G23021*	*EPA 8260B*	*07/24/10 09:38*	*JKG*	
Dibromofluoromethane	*42*	*1*	*50.0*	*85 %*	*68-117*	*0G23021*	*EPA 8260B*	*07/24/10 09:38*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*69-110*	*0G23021*	*EPA 8260B*	*07/24/10 09:38*	*JKG*	

www.encolabs.com

Description:	3301-MW5	**Lab Sample ID:**	C008825-01	**Received:**	07/21/10 18:15
Matrix:	Ground Water	**Sampled:**	07/21/10 14:55	**Work Order:**	C008825
Project:	Edgecombe County Landfill - July	**Sampled By:**	Michelle Logut, Jerry Paul		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	07/23/10 19:28	NLH	

www.encolabs.com

Description: 3301-MW5 | **Lab Sample ID:** C008825-01 | **Received:** 07/21/10 18:15

Matrix: Ground Water | **Sampled:** 07/21/10 14:55 | **Work Order:** C008825

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut, Jerry Paul

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/28/10 13:52	VLO	
Arsenic [7440-38-2] ^	**29.4**	B	ug/L	1	2.80	10.0	10	EPA 6010C	07/29/10 15:52	JDH	J-01
Barium [7440-39-3] ^	**158**		ug/L	1	1.00	10.0	100	EPA 6010C	07/29/10 15:52	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/29/10 15:52	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	07/29/10 15:52	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	07/29/10 15:52	JDH	
Cobalt [7440-48-4] ^	**143**		ug/L	1	1.10	10.0	10	EPA 6010C	07/29/10 15:52	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/29/10 15:52	JDH	
Iron [7439-89-6] ^	**118000**		ug/L	1	22.0	50.0	300	EPA 6010C	07/29/10 15:52	JDH	
Lead [7439-92-1] ^	**11.4**		ug/L	1	1.90	10.0	10	EPA 6010C	07/29/10 15:52	JDH	
Manganese [7439-96-5] ^	**33300**	D	ug/L	5	5.50	50.0	50	EPA 6010C	07/29/10 17:30	JDH	
Nickel [7440-02-0] ^	**35.7**	J	ug/L	1	1.80	10.0	50	EPA 6010C	07/29/10 15:52	JDH	
Selenium [7782-49-2] ^	**1.01**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/28/10 13:52	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/29/10 15:52	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/28/10 13:52	VLO	
Vanadium [7440-62-2] ^	**1.43**	J	ug/L	1	1.40	10.0	25	EPA 6010C	07/29/10 15:52	JDH	
Zinc [7440-66-6] ^	**54.2**		ug/L	1	3.80	10.0	10	EPA 6010C	07/29/10 15:52	JDH	

www.encolabs.com

Description: 3301-MW5 | **Lab Sample ID:** C008825-01 | **Received:** 07/21/10 18:15

Matrix: Ground Water | **Sampled:** 07/21/10 14:55 | **Work Order:** C008825

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut, Jerry Paul

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	**19000**		ug/L	1	2000	2000	NE	SM 5210B	07/23/10 10:06	AJB	
Chemical Oxygen Demand [ECL-0035] ^	**70000**		ug/L	1	2800	10000	NE	SM 5220D	07/30/10 10:30	PEV	
Chloride [16887-00-6] ^	**13000**		ug/L	1	18	5000	NE	EPA 300.0	07/27/10 16:49	PEV	
Nitrate as N [14797-55-8] ^	**67**	J	ug/L	1	25	100	10000	EPA 353.2	07/29/10 13:24	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**67**	J	ug/L	1	25	100	NE	EPA 353.2	07/28/10 12:18	PEV	
Nitrite as N [14797-65-0] ^	5.6	U	ug/L	1	5.6	100	1000	EPA 353.2	07/23/10 07:46	PEV	
Sulfate as SO4 [14808-79-8] ^	**42000**	J	ug/L	1	120	5000	250000	EPA 300.0	07/27/10 16:49	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1000	SM18 4500-S D	07/26/10 14:58	JOC	
Total Alkalinity [471-34-1] ^	**590000**	D	ug/L	4	32000	60000	NE	EPA 310.2	07/23/10 11:59	PEV	
Total Dissolved Solids [ECL-0156] ^	**580000**		ug/L	1	10000	10000	NE	SM 2540C	07/28/10 23:16	CCB	

www.encolabs.com

Description:	3301-MW5	**Lab Sample ID:**	C008825-01	**Received:**	07/21/10 18:15
Matrix:	Ground Water	**Sampled:**	07/21/10 14:55	**Work Order:**	C008825
Project:	Edgecombe County Landfill - July	**Sampled By:**	Michelle Logut, Jerry Paul		

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**6100**		ug/L	1	320	1000	NE	SM18 5310B	07/28/10 12:30	RSA	

www.encolabs.com

Description: 3301-MW5
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C008825-01
Sampled: 07/21/10 14:55
Sampled By: Michelle Logut, Jerry Paul

Received: 07/21/10 18:15
Work Order: C008825

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**467000**	D	ug/L	10	7800	25000	NE	RSK-175	07/27/10 16:09	LAC	
Ethane [74-84-0]	0.4	U	ug/L	1	0.4	2	NE	RSK-175	07/27/10 15:51	LAC	
Ethene [74-85-1]	**2**		ug/L	1	0.4	2	NE	RSK-175	07/27/10 15:51	LAC	
Methane [74-82-8]	**290**		ug/L	1	0.2	1	NE	RSK-175	07/27/10 15:51	LAC	

www.encolabs.com

Description: 3301-MW5 | **Lab Sample ID:** C008825-01 | **Received:** 07/21/10 18:15

Matrix: Ground Water | **Sampled:** 07/21/10 14:55 | **Work Order:** C008825

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut, Jerry Paul

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	83	U	ug/L	1	83	500	NE	VGC-13	07/26/10 15:00	MEF	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	VGC-13	07/26/10 15:00	MEF	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		VGC-13	07/26/10 15:00	MEF	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		VGC-13	07/26/10 15:00	MEF	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		VGC-13	07/26/10 15:00	MEF	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		VGC-13	07/26/10 15:00	MEF	
Lactic Acid [50-21-5]	440	U	ug/L	1	440	500	NE	VGC-13	07/26/10 15:00	MEF	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		VGC-13	07/26/10 15:00	MEF	
Propionic Acid [79-09-4]	180	U	ug/L	1	180	500	NE	VGC-13	07/26/10 15:00	MEF	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	VGC-13	07/26/10 15:00	MEF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*140000*	*1*	*125000*	*113 %*	*80-124*	*0G26005*	*VGC-13*	*07/26/10 15:00*	*MEF*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 3301-MW7A | **Lab Sample ID:** C008825-02 | **Received:** 07/21/10 18:15

Matrix: Ground Water | **Sampled:** 07/21/10 10:55 | **Work Order:** C008825

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut, Jerry Paul

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/24/10 10:08	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/24/10 10:08	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/24/10 10:08	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/24/10 10:08	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/24/10 10:08	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/24/10 10:08	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/24/10 10:08	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/24/10 10:08	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/24/10 10:08	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/24/10 10:08	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/24/10 10:08	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/24/10 10:08	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**0.62**	J	ug/L	1	0.38	1.0	1	EPA 8260B	07/24/10 10:08	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/24/10 10:08	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/24/10 10:08	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/24/10 10:08	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/24/10 10:08	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/24/10 10:08	JKG	
Benzene [71-43-2] ^	**1.4**		ug/L	1	0.20	1.0	1	EPA 8260B	07/24/10 10:08	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/24/10 10:08	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/24/10 10:08	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/24/10 10:08	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/24/10 10:08	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/24/10 10:08	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/24/10 10:08	JKG	
Chlorobenzene [108-90-7] ^	**1.8**	J	ug/L	1	0.27	1.0	3	EPA 8260B	07/24/10 10:08	JKG	
Chloroethane [75-00-3] ^	**2.3**	J	ug/L	1	0.30	1.0	10	EPA 8260B	07/24/10 10:08	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/24/10 10:08	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/24/10 10:08	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/24/10 10:08	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/24/10 10:08	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/24/10 10:08	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/24/10 10:08	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/24/10 10:08	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/24/10 10:08	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/24/10 10:08	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/24/10 10:08	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/24/10 10:08	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/24/10 10:08	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/24/10 10:08	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/24/10 10:08	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/24/10 10:08	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/24/10 10:08	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/24/10 10:08	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/24/10 10:08	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/24/10 10:08	JKG	

www.encolabs.com

Description: 3301-MW7A
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C008825-02
Sampled: 07/21/10 10:55
Sampled By: Michelle Logut, Jerry Paul

Received: 07/21/10 18:15
Work Order: C008825

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/24/10 10:08	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*40*	*1*	*50.0*	*79 %*	*51-122*	*0G23021*	*EPA 8260B*	*07/24/10 10:08*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*86 %*	*68-117*	*0G23021*	*EPA 8260B*	*07/24/10 10:08*	*JKG*	
Toluene-d8	*44*	*1*	*50.0*	*87 %*	*69-110*	*0G23021*	*EPA 8260B*	*07/24/10 10:08*	*JKG*	

www.encolabs.com

Description:	3301-MW7A	**Lab Sample ID:**	C008825-02	**Received:**	07/21/10 18:15
Matrix:	Ground Water	**Sampled:**	07/21/10 10:55	**Work Order:**	C008825
Project:	Edgecombe County Landfill - July	**Sampled By:**	Michelle Logut, Jerry Paul		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	07/23/10 19:31	NLH	

www.encolabs.com

Description: 3301-MW7A
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C008825-02
Sampled: 07/21/10 10:55
Sampled By: Michelle Logut, Jerry Paul

Received: 07/21/10 18:15
Work Order: C008825

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/28/10 13:55	VLO	
Arsenic [7440-38-2] ^	**51.5**	B	ug/L	1	2.80	10.0	10	EPA 6010C	07/29/10 15:55	JDH	QB-01
Barium [7440-39-3] ^	**284**		ug/L	1	1.00	10.0	100	EPA 6010C	07/29/10 15:55	JDH	
Beryllium [7440-41-7] ^	**0.225**	J	ug/L	1	0.100	1.00	1	EPA 6010C	07/29/10 15:55	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	07/29/10 15:55	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	07/29/10 15:55	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	07/29/10 15:55	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/29/10 15:55	JDH	
Iron [7439-89-6] ^	**110000**		ug/L	1	22.0	50.0	300	EPA 6010C	07/29/10 15:55	JDH	
Lead [7439-92-1] ^	**6.90**	J	ug/L	1	1.90	10.0	10	EPA 6010C	07/29/10 15:55	JDH	
Manganese [7439-96-5] ^	**266**		ug/L	1	1.10	10.0	50	EPA 6010C	07/29/10 15:55	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	07/29/10 15:55	JDH	
Selenium [7782-49-2] ^	**1.25**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/28/10 13:55	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/29/10 15:55	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/28/10 13:55	VLO	
Vanadium [7440-62-2] ^	**8.39**	J	ug/L	1	1.40	10.0	25	EPA 6010C	07/29/10 15:55	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	07/29/10 15:55	JDH	

www.encolabs.com

Description: 3301-MW7A
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C008825-02
Sampled: 07/21/10 10:55
Sampled By: Michelle Logut, Jerry Paul

Received: 07/21/10 18:15
Work Order: C008825

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	07/22/10 09:46	AJB	B-09
Chemical Oxygen Demand [ECL-0035] ^	**18000**		ug/L	1	2800	10000	NE	SM 5220D	07/30/10 10:30	PEV	
Chloride [16887-00-6] ^	**28000**		ug/L	1	18	5000	NE	EPA 300.0	07/27/10 17:08	PEV	
Nitrate as N [14797-55-8] ^	**90**	J	ug/L	1	25	100	10000	EPA 353.2	07/29/10 13:24	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**90**	J	ug/L	1	25	100	NE	EPA 353.2	07/28/10 12:19	PEV	
Nitrite as N [14797-65-0] ^	5.6	U	ug/L	1	5.6	100	1000	EPA 353.2	07/23/10 07:47	PEV	
Sulfate as SO4 [14808-79-8] ^	**2200**	J	ug/L	1	120	5000	250000	EPA 300.0	07/27/10 17:08	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1000	SM18 4500-S D	07/26/10 14:58	JOC	
Total Alkalinity [471-34-1] ^	**380000**	D	ug/L	2	16000	30000	NE	EPA 310.2	07/23/10 12:00	PEV	
Total Dissolved Solids [ECL-0156] ^	**380000**		ug/L	1	10000	10000	NE	SM 2540C	07/28/10 23:16	CCB	

www.encolabs.com

Description:	3301-MW7A	**Lab Sample ID:**	C008825-02	**Received:**	07/21/10 18:15
Matrix:	Ground Water	**Sampled:**	07/21/10 10:55	**Work Order:**	C008825
Project:	Edgecombe County Landfill - July	**Sampled By:**	Michelle Logut, Jerry Paul		

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**5500**		ug/L	1	320	1000	NE	SM18 5310B	07/28/10 12:30	RSA	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 3301-MW12 | **Lab Sample ID:** C008825-03 | **Received:** 07/21/10 18:15

Matrix: Ground Water | **Sampled:** 07/21/10 10:15 | **Work Order:** C008825

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut, Jerry Paul

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/28/10 20:41	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/28/10 20:41	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/28/10 20:41	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/28/10 20:41	JKG	
1,1-Dichloroethane [75-34-3] ^	**1.6**	J	ug/L	1	0.33	1.0	5	EPA 8260B	07/28/10 20:41	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/28/10 20:41	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/28/10 20:41	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/28/10 20:41	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/28/10 20:41	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/28/10 20:41	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/28/10 20:41	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/28/10 20:41	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**5.2**		ug/L	1	0.38	1.0	1	EPA 8260B	07/28/10 20:41	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/28/10 20:41	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/28/10 20:41	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/28/10 20:41	JKG	
Acetone [67-64-1] ^	**3.9**	J	ug/L	1	1.5	5.0	100	EPA 8260B	07/28/10 20:41	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/28/10 20:41	JKG	
Benzene [71-43-2] ^	**3.1**		ug/L	1	0.20	1.0	1	EPA 8260B	07/28/10 20:41	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/28/10 20:41	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/28/10 20:41	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/28/10 20:41	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/28/10 20:41	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/28/10 20:41	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/28/10 20:41	JKG	
Chlorobenzene [108-90-7] ^	**3.4**		ug/L	1	0.27	1.0	3	EPA 8260B	07/28/10 20:41	JKG	
Chloroethane [75-00-3] ^	**1.4**	J	ug/L	1	0.30	1.0	10	EPA 8260B	07/28/10 20:41	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/28/10 20:41	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/28/10 20:41	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**1.0**	J	ug/L	1	0.36	1.0	5	EPA 8260B	07/28/10 20:41	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/28/10 20:41	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/28/10 20:41	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/28/10 20:41	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/28/10 20:41	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/28/10 20:41	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/28/10 20:41	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/28/10 20:41	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/28/10 20:41	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/28/10 20:41	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/28/10 20:41	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/28/10 20:41	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/28/10 20:41	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/28/10 20:41	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/28/10 20:41	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/28/10 20:41	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/28/10 20:41	JKG	

www.encolabs.com

Description: 3301-MW12 | **Lab Sample ID:** C008825-03 | **Received:** 07/21/10 18:15

Matrix: Ground Water | **Sampled:** 07/21/10 10:15 | **Work Order:** C008825

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut, Jerry Paul

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/28/10 20:41	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*82 %*	*51-122*	*0G28015*	*EPA 8260B*	*07/28/10 20:41*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*86 %*	*68-117*	*0G28015*	*EPA 8260B*	*07/28/10 20:41*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*69-110*	*0G28015*	*EPA 8260B*	*07/28/10 20:41*	*JKG*	

www.encolabs.com

Description:	3301-MW12	**Lab Sample ID:**	C008825-03	**Received:**	07/21/10 18:15
Matrix:	Ground Water	**Sampled:**	07/21/10 10:15	**Work Order:**	C008825
Project:	Edgecombe County Landfill - July	**Sampled By:**	Michelle Logut, Jerry Paul		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	07/23/10 19:34	NLH	

www.encolabs.com

Description: 3301-MW12 | **Lab Sample ID:** C008825-03 | **Received:** 07/21/10 18:15

Matrix: Ground Water | **Sampled:** 07/21/10 10:15 | **Work Order:** C008825

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut, Jerry Paul

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/28/10 13:59	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/29/10 15:58	JDH	
Barium [7440-39-3] ^	**244**		ug/L	1	1.00	10.0	100	EPA 6010C	07/29/10 15:58	JDH	
Beryllium [7440-41-7] ^	**0.497**	J	ug/L	1	0.100	1.00	1	EPA 6010C	07/29/10 15:58	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	07/29/10 15:58	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	07/29/10 15:58	JDH	
Cobalt [7440-48-4] ^	**11.5**		ug/L	1	1.10	10.0	10	EPA 6010C	07/29/10 15:58	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/29/10 15:58	JDH	
Iron [7439-89-6] ^	**8550**		ug/L	1	22.0	50.0	300	EPA 6010C	07/29/10 15:58	JDH	
Lead [7439-92-1] ^	**2.23**	J	ug/L	1	1.90	10.0	10	EPA 6010C	07/29/10 15:58	JDH	
Manganese [7439-96-5] ^	**73.6**		ug/L	1	1.10	10.0	50	EPA 6010C	07/29/10 15:58	JDH	
Nickel [7440-02-0] ^	**17.0**	J	ug/L	1	1.80	10.0	50	EPA 6010C	07/29/10 15:58	JDH	
Selenium [7782-49-2] ^	**9.79**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/28/10 13:59	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/29/10 15:58	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/28/10 13:59	VLO	
Vanadium [7440-62-2] ^	**1.49**	J	ug/L	1	1.40	10.0	25	EPA 6010C	07/29/10 15:58	JDH	
Zinc [7440-66-6] ^	**127**		ug/L	1	3.80	10.0	10	EPA 6010C	07/29/10 15:58	JDH	

www.encolabs.com

Description: 3301-MW12 | **Lab Sample ID:** C008825-03 | **Received:** 07/21/10 18:15

Matrix: Ground Water | **Sampled:** 07/21/10 10:15 | **Work Order:** C008825

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut, Jerry Paul

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	07/22/10 09:46	AJB	
Chemical Oxygen Demand [ECL-0035] ^	**20000**		ug/L	1	2800	10000	NE	SM 5220D	07/30/10 10:30	PEV	
Chloride [16887-00-6] ^	**150000**	D	ug/L	4	72	20000	NE	EPA 300.0	07/27/10 17:45	PEV	
Nitrate as N [14797-55-8] ^	**180**	J	ug/L	1	25	100	10000	EPA 353.2	07/29/10 13:24	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**180**		ug/L	1	25	100	NE	EPA 353.2	07/28/10 12:20	PEV	
Nitrite as N [14797-65-0] ^	5.6	U	ug/L	1	5.6	100	1000	EPA 353.2	07/23/10 07:48	PEV	
Sulfate as SO4 [14808-79-8] ^	**51000**	J	ug/L	1	120	5000	250000	EPA 300.0	07/27/10 17:27	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1000	SM18 4500-S D	07/26/10 14:58	JOC	
Total Alkalinity [471-34-1] ^	**8500**	J	ug/L	1	8000	15000	NE	EPA 310.2	07/23/10 08:41	PEV	
Total Dissolved Solids [ECL-0156] ^	**520000**		ug/L	1	10000	10000	NE	SM 2540C	07/28/10 23:16	CCB	

www.encolabs.com

Description:	3301-MW12	**Lab Sample ID:**	C008825-03	**Received:**	07/21/10 18:15
Matrix:	Ground Water	**Sampled:**	07/21/10 10:15	**Work Order:**	C008825
Project:	Edgecombe County Landfill - July	**Sampled By:**	Michelle Logut, Jerry Paul		

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**11000**		ug/L	1	320	1000	NE	SM18 5310B	07/28/10 12:30	RSA	

www.encolabs.com

Description: 3301-MW12
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C008825-03
Sampled: 07/21/10 10:15
Sampled By: Michelle Logut, Jerry Paul

Received: 07/21/10 18:15
Work Order: C008825

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**667000**	D	ug/L	10	7800	25000	NE	RSK-175	07/27/10 16:13	LAC	
Ethane [74-84-0]	0.4	U	ug/L	1	0.4	2	NE	RSK-175	07/27/10 15:54	LAC	
Ethene [74-85-1]	0.4	U	ug/L	1	0.4	2	NE	RSK-175	07/27/10 15:54	LAC	
Methane [74-82-8]	**62**		ug/L	1	0.2	1	NE	RSK-175	07/27/10 15:54	LAC	

www.encolabs.com

Description: 3301-MW12 | **Lab Sample ID:** C008825-03 | **Received:** 07/21/10 18:15

Matrix: Ground Water | **Sampled:** 07/21/10 10:15 | **Work Order:** C008825

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut, Jerry Paul

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	83	U	ug/L	1	83	500	NE	VGC-13	07/26/10 16:02	MEF	
Butyric Acid [107-92-6]	160	U	ug/L	1	160	500	NE	VGC-13	07/26/10 16:02	MEF	
Hexanoic Acid [142-62-1]	230	U	ug/L	1	230	1000		VGC-13	07/26/10 16:02	MEF	
HIBA (2-Hydroxyisobutyric Acid) [594-61-6]	160	U	ug/L	1	160	500		VGC-13	07/26/10 16:02	MEF	
iso-Hexanoic Acid [646-07-1]	210	U	ug/L	1	210	1000		VGC-13	07/26/10 16:02	MEF	
iso-Pentanoic Acid [503-74-2]	260	U	ug/L	1	260	500		VGC-13	07/26/10 16:02	MEF	
Lactic Acid [50-21-5]	440	U	ug/L	1	440	500	NE	VGC-13	07/26/10 16:02	MEF	
Pentanoic Acid [109-52-4]	270	U	ug/L	1	270	500		VGC-13	07/26/10 16:02	MEF	
Propionic Acid [79-09-4]	180	U	ug/L	1	180	500	NE	VGC-13	07/26/10 16:02	MEF	
Pyruvic Acid [127-17-3]	140	U	ug/L	1	140	500	NE	VGC-13	07/26/10 16:02	MEF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*150000*	*1*	*125000*	*120 %*	*80-124*	*0G26005*	*VGC-13*	*07/26/10 16:02*	*MEF*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 3301-MW13 | **Lab Sample ID:** C008825-04 | **Received:** 07/21/10 18:15

Matrix: Ground Water | **Sampled:** 07/21/10 11:45 | **Work Order:** C008825

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut, Jerry Paul

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/28/10 21:13	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/28/10 21:13	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/28/10 21:13	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/28/10 21:13	JKG	
1,1-Dichloroethane [75-34-3] ^	**1.4**	J	ug/L	1	0.33	1.0	5	EPA 8260B	07/28/10 21:13	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/28/10 21:13	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/28/10 21:13	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/28/10 21:13	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/28/10 21:13	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/28/10 21:13	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/28/10 21:13	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/28/10 21:13	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**3.5**		ug/L	1	0.38	1.0	1	EPA 8260B	07/28/10 21:13	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/28/10 21:13	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/28/10 21:13	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/28/10 21:13	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/28/10 21:13	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/28/10 21:13	JKG	
Benzene [71-43-2] ^	**2.3**		ug/L	1	0.20	1.0	1	EPA 8260B	07/28/10 21:13	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/28/10 21:13	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/28/10 21:13	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/28/10 21:13	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/28/10 21:13	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/28/10 21:13	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/28/10 21:13	JKG	
Chlorobenzene [108-90-7] ^	**14**		ug/L	1	0.27	1.0	3	EPA 8260B	07/28/10 21:13	JKG	
Chloroethane [75-00-3] ^	**0.83**	J	ug/L	1	0.30	1.0	10	EPA 8260B	07/28/10 21:13	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/28/10 21:13	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/28/10 21:13	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**53**		ug/L	1	0.36	1.0	5	EPA 8260B	07/28/10 21:13	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/28/10 21:13	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/28/10 21:13	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/28/10 21:13	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/28/10 21:13	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/28/10 21:13	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/28/10 21:13	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/28/10 21:13	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/28/10 21:13	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/28/10 21:13	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	**0.60**	J	ug/L	1	0.34	1.0	5	EPA 8260B	07/28/10 21:13	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/28/10 21:13	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/28/10 21:13	JKG	
Trichloroethene [79-01-6] ^	**1.4**		ug/L	1	0.38	1.0	1	EPA 8260B	07/28/10 21:13	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/28/10 21:13	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/28/10 21:13	JKG	
Vinyl chloride [75-01-4] ^	**3.4**		ug/L	1	0.30	1.0	1	EPA 8260B	07/28/10 21:13	JKG	

www.encolabs.com

Description: 3301-MW13 | **Lab Sample ID:** C008825-04 | **Received:** 07/21/10 18:15

Matrix: Ground Water | **Sampled:** 07/21/10 11:45 | **Work Order:** C008825

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut, Jerry Paul

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/28/10 21:13	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*81 %*	*51-122*	*0G28015*	*EPA 8260B*	*07/28/10 21:13*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*88 %*	*68-117*	*0G28015*	*EPA 8260B*	*07/28/10 21:13*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*69-110*	*0G28015*	*EPA 8260B*	*07/28/10 21:13*	*JKG*	

www.encolabs.com

Description:	3301-MW13	**Lab Sample ID:**	C008825-04	**Received:**	07/21/10 18:15
Matrix:	Ground Water	**Sampled:**	07/21/10 11:45	**Work Order:**	C008825
Project:	Edgecombe County Landfill - July	**Sampled By:**	Michelle Logut, Jerry Paul		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	07/23/10 19:43	NLH	

www.encolabs.com

Description: 3301-MW13 | **Lab Sample ID:** C008825-04 | **Received:** 07/21/10 18:15

Matrix: Ground Water | **Sampled:** 07/21/10 11:45 | **Work Order:** C008825

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut, Jerry Paul

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/28/10 14:03	VLO	
Arsenic [7440-38-2] ^	**6.41**	JB	ug/L	1	2.80	10.0	10	EPA 6010C	07/29/10 16:01	JDH	J-01
Barium [7440-39-3] ^	**115**		ug/L	1	1.00	10.0	100	EPA 6010C	07/29/10 16:01	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/29/10 16:01	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	07/29/10 16:01	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	07/29/10 16:01	JDH	
Cobalt [7440-48-4] ^	**1260**		ug/L	1	1.10	10.0	10	EPA 6010C	07/29/10 16:01	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/29/10 16:01	JDH	
Iron [7439-89-6] ^	**29200**		ug/L	1	22.0	50.0	300	EPA 6010C	07/29/10 16:01	JDH	
Lead [7439-92-1] ^	**8.12**	J	ug/L	1	1.90	10.0	10	EPA 6010C	07/29/10 16:01	JDH	
Manganese [7439-96-5] ^	**36800**	D	ug/L	5	5.50	50.0	50	EPA 6010C	07/29/10 17:34	JDH	
Nickel [7440-02-0] ^	**244**		ug/L	1	1.80	10.0	50	EPA 6010C	07/29/10 16:01	JDH	
Selenium [7782-49-2] ^	**7.86**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/28/10 14:03	VLO	
Silver [7440-22-4] ^	**5.25**	J	ug/L	1	1.90	10.0	10	EPA 6010C	07/29/10 16:01	JDH	
Thallium [7440-28-0] ^	**0.975**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/28/10 14:03	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	07/29/10 16:01	JDH	
Zinc [7440-66-6] ^	**122**		ug/L	1	3.80	10.0	10	EPA 6010C	07/29/10 16:01	JDH	

www.encolabs.com

Description: 3301-MW13 | **Lab Sample ID:** C008825-04 | **Received:** 07/21/10 18:15

Matrix: Ground Water | **Sampled:** 07/21/10 11:45 | **Work Order:** C008825

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut, Jerry Paul

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	07/23/10 10:06	AJB	
Chemical Oxygen Demand [ECL-0035] ^	**64000**		ug/L	1	2800	10000	NE	SM 5220D	07/30/10 10:30	PEV	
Chloride [16887-00-6] ^	**110000**	D	ug/L	2	36	10000	NE	EPA 300.0	07/27/10 18:23	PEV	
Nitrate as N [14797-55-8] ^	**120**	J	ug/L	1	25	100	10000	EPA 353.2	07/29/10 13:24	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**120**		ug/L	1	25	100	NE	EPA 353.2	07/28/10 12:20	PEV	
Nitrite as N [14797-65-0] ^	5.6	U	ug/L	1	5.6	100	1000	EPA 353.2	07/23/10 07:49	PEV	
Sulfate as SO4 [14808-79-8] ^	**41000**	J	ug/L	1	120	5000	250000	EPA 300.0	07/27/10 18:04	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1000	SM18 4500-S D	07/26/10 14:58	JOC	
Total Alkalinity [471-34-1] ^	**260000**	D	ug/L	2	16000	30000	NE	EPA 310.2	07/23/10 08:43	PEV	
Total Dissolved Solids [ECL-0156] ^	**560000**		ug/L	1	10000	10000	NE	SM 2540C	07/28/10 23:16	CCB	

www.encolabs.com

Description:	3301-MW13	**Lab Sample ID:**	C008825-04	**Received:**	07/21/10 18:15
Matrix:	Ground Water	**Sampled:**	07/21/10 11:45	**Work Order:**	C008825
Project:	Edgecombe County Landfill - July	**Sampled By:**	Michelle Logut, Jerry Paul		

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**8700**		ug/L	1	320	1000	NE	SM18 5310B	07/28/10 12:30	RSA	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 3301-MW15 | **Lab Sample ID:** C008825-05 | **Received:** 07/21/10 18:15

Matrix: Ground Water | **Sampled:** 07/21/10 13:55 | **Work Order:** C008825

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut, Jerry Paul

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/28/10 21:44	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/28/10 21:44	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/28/10 21:44	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/28/10 21:44	JKG	
1,1-Dichloroethane [75-34-3] ^	**0.94**	J	ug/L	1	0.33	1.0	5	EPA 8260B	07/28/10 21:44	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/28/10 21:44	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/28/10 21:44	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/28/10 21:44	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/28/10 21:44	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/28/10 21:44	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/28/10 21:44	JKG	
1,2-Dichloropropane [78-87-5] ^	**2.4**		ug/L	1	0.20	1.0	1	EPA 8260B	07/28/10 21:44	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/28/10 21:44	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/28/10 21:44	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/28/10 21:44	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/28/10 21:44	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/28/10 21:44	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/28/10 21:44	JKG	
Benzene [71-43-2] ^	**0.55**	J	ug/L	1	0.20	1.0	1	EPA 8260B	07/28/10 21:44	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/28/10 21:44	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/28/10 21:44	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/28/10 21:44	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/28/10 21:44	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/28/10 21:44	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/28/10 21:44	JKG	
Chlorobenzene [108-90-7] ^	**1.4**	J	ug/L	1	0.27	1.0	3	EPA 8260B	07/28/10 21:44	JKG	
Chloroethane [75-00-3] ^	**0.42**	J	ug/L	1	0.30	1.0	10	EPA 8260B	07/28/10 21:44	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/28/10 21:44	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/28/10 21:44	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**23**		ug/L	1	0.36	1.0	5	EPA 8260B	07/28/10 21:44	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/28/10 21:44	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/28/10 21:44	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/28/10 21:44	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/28/10 21:44	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/28/10 21:44	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/28/10 21:44	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/28/10 21:44	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/28/10 21:44	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/28/10 21:44	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	**0.58**	J	ug/L	1	0.34	1.0	5	EPA 8260B	07/28/10 21:44	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/28/10 21:44	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/28/10 21:44	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/28/10 21:44	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/28/10 21:44	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/28/10 21:44	JKG	
Vinyl chloride [75-01-4] ^	**2.9**		ug/L	1	0.30	1.0	1	EPA 8260B	07/28/10 21:44	JKG	

www.encolabs.com

Description: 3301-MW15 | **Lab Sample ID:** C008825-05 | **Received:** 07/21/10 18:15

Matrix: Ground Water | **Sampled:** 07/21/10 13:55 | **Work Order:** C008825

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut, Jerry Paul

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/28/10 21:44	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*78 %*	*51-122*	*0G28015*	*EPA 8260B*	*07/28/10 21:44*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*85 %*	*68-117*	*0G28015*	*EPA 8260B*	*07/28/10 21:44*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*85 %*	*69-110*	*0G28015*	*EPA 8260B*	*07/28/10 21:44*	*JKG*	

www.encolabs.com

Description:	3301-MW15	**Lab Sample ID:**	C008825-05	**Received:**	07/21/10 18:15
Matrix:	Ground Water	**Sampled:**	07/21/10 13:55	**Work Order:**	C008825
Project:	Edgecombe County Landfill - July	**Sampled By:**	Michelle Logut, Jerry Paul		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	07/23/10 19:46	NLH	

www.encolabs.com

Description: 3301-MW15 | **Lab Sample ID:** C008825-05 | **Received:** 07/21/10 18:15

Matrix: Ground Water | **Sampled:** 07/21/10 13:55 | **Work Order:** C008825

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut, Jerry Paul

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/28/10 13:19	VLO	
Arsenic [7440-38-2] ^	**8.39**	JB	ug/L	1	2.80	10.0	10	EPA 6010C	07/29/10 16:05	JDH	J-01
Barium [7440-39-3] ^	**306**		ug/L	1	1.00	10.0	100	EPA 6010C	07/29/10 16:05	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/29/10 16:05	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	07/29/10 16:05	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	07/29/10 16:05	JDH	
Cobalt [7440-48-4] ^	**9.66**	J	ug/L	1	1.10	10.0	10	EPA 6010C	07/29/10 16:05	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/29/10 16:05	JDH	
Iron [7439-89-6] ^	**16700**		ug/L	1	22.0	50.0	300	EPA 6010C	07/29/10 16:05	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/29/10 16:05	JDH	
Manganese [7439-96-5] ^	**6670**		ug/L	1	1.10	10.0	50	EPA 6010C	07/29/10 16:05	JDH	
Nickel [7440-02-0] ^	**7.52**	J	ug/L	1	1.80	10.0	50	EPA 6010C	07/29/10 16:05	JDH	
Selenium [7782-49-2] ^	**0.881**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/28/10 13:19	VLO	
Silver [7440-22-4] ^	**2.67**	J	ug/L	1	1.90	10.0	10	EPA 6010C	07/29/10 16:05	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/28/10 13:19	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	07/29/10 16:05	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	07/29/10 16:05	JDH	

www.encolabs.com

Description: 3301-MW15 | **Lab Sample ID:** C008825-05 | **Received:** 07/21/10 18:15

Matrix: Ground Water | **Sampled:** 07/21/10 13:55 | **Work Order:** C008825

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut, Jerry Paul

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	**2600**		ug/L	1	2000	2000	NE	SM 5210B	07/23/10 10:06	AJB	
Chemical Oxygen Demand [ECL-0035] ^	**16000**		ug/L	1	2800	10000	NE	SM 5220D	07/30/10 10:30	PEV	
Chloride [16887-00-6] ^	**14000**		ug/L	1	18	5000	NE	EPA 300.0	07/27/10 18:41	PEV	
Nitrate as N [14797-55-8] ^	**140**	J	ug/L	1	25	100	10000	EPA 353.2	07/29/10 13:24	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**140**		ug/L	1	25	100	NE	EPA 353.2	07/28/10 12:21	PEV	
Nitrite as N [14797-65-0] ^	5.6	U	ug/L	1	5.6	100	1000	EPA 353.2	07/23/10 07:50	PEV	
Sulfate as SO4 [14808-79-8] ^	**14000**	J	ug/L	1	120	5000	250000	EPA 300.0	07/27/10 18:41	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1000	SM18 4500-S D	07/26/10 14:58	JOC	
Total Alkalinity [471-34-1] ^	**410000**	D	ug/L	4	32000	60000	NE	EPA 310.2	07/23/10 08:44	PEV	
Total Dissolved Solids [ECL-0156] ^	**460000**		ug/L	1	10000	10000	NE	SM 2540C	07/28/10 23:16	CCB	

www.encolabs.com

Description:	3301-MW15	**Lab Sample ID:**	C008825-05	**Received:**	07/21/10 18:15
Matrix:	Ground Water	**Sampled:**	07/21/10 13:55	**Work Order:**	C008825
Project:	Edgecombe County Landfill - July	**Sampled By:**	Michelle Logut, Jerry Paul		

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**4800**		ug/L	1	320	1000	NE	SM18 5310B	07/28/10 12:30	RSA	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 3301-Duplicate
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C008825-06
Sampled: 07/21/10 00:00
Sampled By: Michelle Logut, Jerry Paul

Received: 07/21/10 18:15
Work Order: C008825

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	4.0	UD	ug/L	10	4.0	10	5	EPA 8260B	07/30/10 13:39	JKG	
1,1,1-Trichloroethane [71-55-6] ^	2.7	UD	ug/L	10	2.7	10	1	EPA 8260B	07/30/10 13:39	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	3.3	UD	ug/L	10	3.3	10	3	EPA 8260B	07/30/10 13:39	JKG	
1,1,2-Trichloroethane [79-00-5] ^	3.7	UD	ug/L	10	3.7	10	1	EPA 8260B	07/30/10 13:39	JKG	
1,1-Dichloroethane [75-34-3] ^	**9.7**	JD	ug/L	10	3.3	10	5	EPA 8260B	07/30/10 13:39	JKG	
1,1-Dichloroethene [75-35-4] ^	2.4	UD	ug/L	10	2.4	10	5	EPA 8260B	07/30/10 13:39	JKG	
1,2,3-Trichloropropane [96-18-4] ^	5.5	UD	ug/L	10	5.5	10	1	EPA 8260B	07/30/10 13:39	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	4.8	UD	ug/L	10	4.8	10	13	EPA 8260B	07/30/10 13:39	JKG	
1,2-Dibromoethane [106-93-4] ^	4.2	UD	ug/L	10	4.2	10	1	EPA 8260B	07/30/10 13:39	JKG	
1,2-Dichlorobenzene [95-50-1] ^	2.7	UD	ug/L	10	2.7	10	5	EPA 8260B	07/30/10 13:39	JKG	
1,2-Dichloroethane [107-06-2] ^	6.5	UD	ug/L	10	6.5	10	1	EPA 8260B	07/30/10 13:39	JKG	
1,2-Dichloropropane [78-87-5] ^	2.0	UD	ug/L	10	2.0	10	1	EPA 8260B	07/30/10 13:39	JKG	
1,4-Dichlorobenzene [106-46-7] ^	3.8	UD	ug/L	10	3.8	10	1	EPA 8260B	07/30/10 13:39	JKG	
2-Butanone [78-93-3] ^	10	UD	ug/L	10	10	50	100	EPA 8260B	07/30/10 13:39	JKG	
2-Hexanone [591-78-6] ^	6.9	UD	ug/L	10	6.9	50	50	EPA 8260B	07/30/10 13:39	JKG	
4-Methyl-2-pentanone [108-10-1] ^	11	UD	ug/L	10	11	50	100	EPA 8260B	07/30/10 13:39	JKG	
Acetone [67-64-1] ^	15	UD	ug/L	10	15	50	100	EPA 8260B	07/30/10 13:39	JKG	
Acrylonitrile [107-13-1] ^	21	UD	ug/L	10	21	100	200	EPA 8260B	07/30/10 13:39	JKG	
Benzene [71-43-2] ^	**5.6**	JD	ug/L	10	2.0	10	1	EPA 8260B	07/30/10 13:39	JKG	
Bromochloromethane [74-97-5] ^	4.2	UD	ug/L	10	4.2	10	3	EPA 8260B	07/30/10 13:39	JKG	
Bromodichloromethane [75-27-4] ^	3.7	UD	ug/L	10	3.7	10	1	EPA 8260B	07/30/10 13:39	JKG	
Bromoform [75-25-2] ^	7.1	UD	ug/L	10	7.1	10	3	EPA 8260B	07/30/10 13:39	JKG	
Bromomethane [74-83-9] ^	4.9	UD	ug/L	10	4.9	10	10	EPA 8260B	07/30/10 13:39	JKG	
Carbon disulfide [75-15-0] ^	5.4	UD	ug/L	10	5.4	50	100	EPA 8260B	07/30/10 13:39	JKG	
Carbon tetrachloride [56-23-5] ^	3.8	UD	ug/L	10	3.8	10	1	EPA 8260B	07/30/10 13:39	JKG	
Chlorobenzene [108-90-7] ^	**16**	D	ug/L	10	2.7	10	3	EPA 8260B	07/30/10 13:39	JKG	
Chloroethane [75-00-3] ^	3.0	UD	ug/L	10	3.0	10	10	EPA 8260B	07/30/10 13:39	JKG	
Chloroform [67-66-3] ^	2.0	UD	ug/L	10	2.0	10	5	EPA 8260B	07/30/10 13:39	JKG	
Chloromethane [74-87-3] ^	3.4	UD	ug/L	10	3.4	10	1	EPA 8260B	07/30/10 13:39	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**610**	D	ug/L	10	3.6	10	5	EPA 8260B	07/30/10 13:39	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	2.8	UD	ug/L	10	2.8	10	1	EPA 8260B	07/30/10 13:39	JKG	
Dibromochloromethane [124-48-1] ^	3.2	UD	ug/L	10	3.2	10	3	EPA 8260B	07/30/10 13:39	JKG	
Dibromomethane [74-95-3] ^	3.7	UD	ug/L	10	3.7	10	10	EPA 8260B	07/30/10 13:39	JKG	
Ethylbenzene [100-41-4] ^	2.0	UD	ug/L	10	2.0	10	1	EPA 8260B	07/30/10 13:39	JKG	
Iodomethane [74-88-4] ^	5.2	UD	ug/L	10	5.2	50	10	EPA 8260B	07/30/10 13:39	JKG	
Methylene chloride [75-09-2] ^	5.3	UD	ug/L	10	5.3	10	1	EPA 8260B	07/30/10 13:39	JKG	
Styrene [100-42-5] ^	2.6	UD	ug/L	10	2.6	10	1	EPA 8260B	07/30/10 13:39	JKG	
Tetrachloroethene [127-18-4] ^	3.6	UD	ug/L	10	3.6	10	1	EPA 8260B	07/30/10 13:39	JKG	
Toluene [108-88-3] ^	2.7	UD	ug/L	10	2.7	10	1	EPA 8260B	07/30/10 13:39	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	3.4	UD	ug/L	10	3.4	10	5	EPA 8260B	07/30/10 13:39	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	3.8	UD	ug/L	10	3.8	10	1	EPA 8260B	07/30/10 13:39	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	5.4	UD	ug/L	10	5.4	10	100	EPA 8260B	07/30/10 13:39	JKG	
Trichloroethene [79-01-6] ^	3.8	UD	ug/L	10	3.8	10	1	EPA 8260B	07/30/10 13:39	JKG	
Trichlorofluoromethane [75-69-4] ^	2.8	UD	ug/L	10	2.8	10	1	EPA 8260B	07/30/10 13:39	JKG	
Vinyl acetate [108-05-4] ^	9.8	UD	ug/L	10	9.8	50	50	EPA 8260B	07/30/10 13:39	JKG	
Vinyl chloride [75-01-4] ^	**34**	D	ug/L	10	3.0	10	1	EPA 8260B	07/30/10 13:39	JKG	

www.encolabs.com

Description: 3301-Duplicate
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C008825-06
Sampled: 07/21/10 00:00
Sampled By: Michelle Logut, Jerry Paul

Received: 07/21/10 18:15
Work Order: C008825

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	4.0	UD	ug/L	10	4.0	10	5	EPA 8260B	07/30/10 13:39	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*82 %*	*51-122*	*0G30009*	*EPA 8260B*	*07/30/10 13:39*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*87 %*	*68-117*	*0G30009*	*EPA 8260B*	*07/30/10 13:39*	*JKG*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*69-110*	*0G30009*	*EPA 8260B*	*07/30/10 13:39*	*JKG*	

www.encolabs.com

Description: 3301-Duplicate
Matrix: Ground Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C008825-06
Sampled: 07/21/10 00:00
Sampled By: Michelle Logut, Jerry Paul

Received: 07/21/10 18:15
Work Order: C008825

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/28/10 14:06	VLO	
Arsenic [7440-38-2] ^	**29.7**	B	ug/L	1	2.80	10.0	10	EPA 6010C	07/29/10 16:11	JDH	J-01
Barium [7440-39-3] ^	**149**		ug/L	1	1.00	10.0	100	EPA 6010C	07/29/10 16:11	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/29/10 16:11	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	07/29/10 16:11	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	07/29/10 16:11	JDH	
Cobalt [7440-48-4] ^	**137**		ug/L	1	1.10	10.0	10	EPA 6010C	07/29/10 16:11	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/29/10 16:11	JDH	
Lead [7439-92-1] ^	**9.92**	J	ug/L	1	1.90	10.0	10	EPA 6010C	07/29/10 16:11	JDH	
Nickel [7440-02-0] ^	**33.5**	J	ug/L	1	1.80	10.0	50	EPA 6010C	07/29/10 16:11	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	07/28/10 14:06	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/29/10 16:11	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/28/10 14:06	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	07/29/10 16:11	JDH	
Zinc [7440-66-6] ^	**51.6**		ug/L	1	3.80	10.0	10	EPA 6010C	07/29/10 16:11	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: 3301-Equipment Blank | **Lab Sample ID:** C008825-07 | **Received:** 07/21/10 18:15

Matrix: Water | **Sampled:** 07/21/10 15:00 | **Work Order:** C008825

Project: Edgecombe County Landfill - July | **Sampled By:** Michelle Logut, Jerry Paul

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/28/10 22:16	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/28/10 22:16	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/28/10 22:16	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/28/10 22:16	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/28/10 22:16	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/28/10 22:16	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/28/10 22:16	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/28/10 22:16	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/28/10 22:16	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/28/10 22:16	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/28/10 22:16	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/28/10 22:16	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/28/10 22:16	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/28/10 22:16	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/28/10 22:16	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/28/10 22:16	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/28/10 22:16	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/28/10 22:16	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/28/10 22:16	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/28/10 22:16	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/28/10 22:16	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/28/10 22:16	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/28/10 22:16	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/28/10 22:16	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/28/10 22:16	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/28/10 22:16	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/28/10 22:16	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/28/10 22:16	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/28/10 22:16	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/28/10 22:16	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/28/10 22:16	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/28/10 22:16	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/28/10 22:16	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/28/10 22:16	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/28/10 22:16	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/28/10 22:16	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/28/10 22:16	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/28/10 22:16	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/28/10 22:16	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/28/10 22:16	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/28/10 22:16	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/28/10 22:16	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/28/10 22:16	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/28/10 22:16	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/28/10 22:16	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/28/10 22:16	JKG	

www.encolabs.com

Description: 3301-Equipment Blank
Matrix: Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C008825-07
Sampled: 07/21/10 15:00
Sampled By: Michelle Logut, Jerry Paul

Received: 07/21/10 18:15
Work Order: C008825

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/28/10 22:16	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*79 %*	*51-122*	*0G28015*	*EPA 8260B*	*07/28/10 22:16*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*87 %*	*68-117*	*0G28015*	*EPA 8260B*	*07/28/10 22:16*	*JKG*	
Toluene-d8	*41*	*1*	*50.0*	*82 %*	*69-110*	*0G28015*	*EPA 8260B*	*07/28/10 22:16*	*JKG*	

www.encolabs.com

Description: 3301-Equipment Blank
Matrix: Water
Project: Edgecombe County Landfill - July

Lab Sample ID: C008825-07
Sampled: 07/21/10 15:00
Sampled By: Michelle Logut, Jerry Paul

Received: 07/21/10 18:15
Work Order: C008825

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.683**	J	ug/L	1	0.220	2.00	6	EPA 6020A	07/28/10 14:10	VLO	
Arsenic [7440-38-2] ^	**3.45**	JB	ug/L	1	2.80	10.0	10	EPA 6010C	07/29/10 16:08	JDH	J-01
Barium [7440-39-3] ^	1.00	U	ug/L	1	1.00	10.0	100	EPA 6010C	07/29/10 16:08	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/29/10 16:08	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	07/29/10 16:08	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	07/29/10 16:08	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	07/29/10 16:08	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/29/10 16:08	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/29/10 16:08	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	07/29/10 16:08	JDH	
Selenium [7782-49-2] ^	**1.22**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/28/10 14:10	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/29/10 16:08	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/28/10 14:10	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	07/29/10 16:08	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	07/29/10 16:08	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0G23019 - EPA 5030B_MS

Blank (0G23019-BLK1) Prepared: 07/23/2010 13:30 Analyzed: 07/23/2010 14:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*97*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0G23019 - EPA 5030B_MS

Blank (0G23019-BLK1) Continued Prepared: 07/23/2010 13:30 Analyzed: 07/23/2010 14:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*99*	*68-117*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*69-110*			

LCS (0G23019-BS1) Prepared: 07/23/2010 13:30 Analyzed: 07/23/2010 14:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0		97	75-133			
Benzene	19		1.0	ug/L	20.0		95	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		98	83-117			
Toluene	20		1.0	ug/L	20.0		99	71-118			
Trichloroethene	20		1.0	ug/L	20.0		100	75-115			

Matrix Spike (0G23019-MS1) Prepared: 07/23/2010 13:30 Analyzed: 07/23/2010 15:28

Source: C008857-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.24 U	102	75-133			
Benzene	19		1.0	ug/L	20.0	0.20 U	96	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	99	83-117			
Toluene	20		1.0	ug/L	20.0	0.27 U	99	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	97	75-115			

Matrix Spike Dup (0G23019-MSD1) Prepared: 07/23/2010 13:30 Analyzed: 07/23/2010 15:58

Source: C008857-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.24 U	94	75-133	8	20	
Benzene	18		1.0	ug/L	20.0	0.20 U	92	81-134	4	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	95	83-117	4	16	
Toluene	19		1.0	ug/L	20.0	0.27 U	94	71-118	5	17	
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	94	75-115	3	18	

Batch 0G23021 - EPA 5030B_MS

Blank (0G23021-BLK1) Prepared: 07/23/2010 12:30 Analyzed: 07/24/2010 02:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0G23021 - EPA 5030B_MS

Blank (0G23021-BLK1) Continued Prepared: 07/23/2010 12:30 Analyzed: 07/24/2010 02:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	**1.9**		1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*40*			*ug/L*	*50.0*		*80*	*51-122*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*88*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*85*	*69-110*			

LCS (0G23021-BS1) Prepared: 07/23/2010 12:30 Analyzed: 07/24/2010 02:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		105	75-133			
Benzene	21		1.0	ug/L	20.0		104	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		94	83-117			
Toluene	19		1.0	ug/L	20.0		97	71-118			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0G23021 - EPA 5030B_MS

LCS (0G23021-BS1) Continued Prepared: 07/23/2010 12:30 Analyzed: 07/24/2010 02:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	19		1.0	ug/L	20.0		95	75-115			

Matrix Spike (0G23021-MS1) Prepared: 07/23/2010 12:30 Analyzed: 07/24/2010 03:10

Source: C008028-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.24 U	104	75-133			
Benzene	22		1.0	ug/L	20.0	0.20 U	110	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	101	83-117			
Toluene	21		1.0	ug/L	20.0	0.27 U	104	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	103	75-115			

Matrix Spike Dup (0G23021-MSD1) Prepared: 07/23/2010 12:30 Analyzed: 07/24/2010 03:40

Source: C008028-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.24 U	113	75-133	8	20	
Benzene	22		1.0	ug/L	20.0	0.20 U	110	81-134	0.09	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	103	83-117	1	16	
Toluene	21		1.0	ug/L	20.0	0.27 U	107	71-118	3	17	
Trichloroethene	20		1.0	ug/L	20.0	0.38 U	101	75-115	2	18	

Batch 0G28015 - EPA 5030B_MS

Blank (0G28015-BLK1) Prepared: 07/28/2010 09:28 Analyzed: 07/28/2010 12:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0G28015 - EPA 5030B_MS

Blank (0G28015-BLK1) Continued Prepared: 07/28/2010 09:28 Analyzed: 07/28/2010 12:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*40*			*ug/L*	*50.0*		*80*	*51-122*			
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*83*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*83*	*69-110*			

LCS (0G28015-BS1) Prepared: 07/28/2010 09:28 Analyzed: 07/28/2010 13:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0		97	75-133			
Benzene	20		1.0	ug/L	20.0		98	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		97	83-117			
Toluene	20		1.0	ug/L	20.0		100	71-118			
Trichloroethene	18		1.0	ug/L	20.0		92	75-115			

Matrix Spike (0G28015-MS1) Prepared: 07/28/2010 09:28 Analyzed: 07/28/2010 13:33

Source: C009025-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.24 U	107	75-133			
Benzene	21		1.0	ug/L	20.0	0.20 U	106	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	107	83-117			
Toluene	22		1.0	ug/L	20.0	0.27 U	108	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.38 U	100	75-115			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0G28015 - EPA 5030B_MS

Matrix Spike Dup (0G28015-MSD1) Prepared: 07/28/2010 09:28 Analyzed: 07/28/2010 14:05

Source: C009025-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.24 U	105	75-133	2	20	
Benzene	21		1.0	ug/L	20.0	0.20 U	106	81-134	0.3	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	106	83-117	1	16	
Toluene	21		1.0	ug/L	20.0	0.27 U	105	71-118	3	17	
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	97	75-115	3	18	

Batch 0G30009 - EPA 5030B_MS

Blank (0G30009-BLK1) Prepared: 07/30/2010 08:05 Analyzed: 07/30/2010 11:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0G30009 - EPA 5030B_MS

Blank (0G30009-BLK1) Continued Prepared: 07/30/2010 08:05 Analyzed: 07/30/2010 11:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methylene chloride	0.53	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*42*			*ug/L*	*50.0*		*83*	*51-122*			
Surrogate: Dibromofluoromethane	*43*			*ug/L*	*50.0*		*86*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*83*	*69-110*			

LCS (0G30009-BS1) Prepared: 07/30/2010 08:05 Analyzed: 07/30/2010 11:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		104	75-133			
Benzene	20		1.0	ug/L	20.0		101	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		95	83-117			
Toluene	20		1.0	ug/L	20.0		98	71-118			
Trichloroethene	18		1.0	ug/L	20.0		91	75-115			

Matrix Spike (0G30009-MS1) Prepared: 07/30/2010 08:05 Analyzed: 07/30/2010 12:04

Source: C009025-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.24 U	116	75-133			
Benzene	22		1.0	ug/L	20.0	0.20 U	108	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	106	83-117			
Toluene	22		1.0	ug/L	20.0	0.27 U	109	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.38 U	100	75-115			

Matrix Spike Dup (0G30009-MSD1) Prepared: 07/30/2010 08:05 Analyzed: 07/30/2010 12:35

Source: C009025-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.24 U	109	75-133	6	20	
Benzene	22		1.0	ug/L	20.0	0.20 U	109	81-134	0.6	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	105	83-117	0.6	16	
Toluene	21		1.0	ug/L	20.0	0.27 U	103	71-118	5	17	
Trichloroethene	20		1.0	ug/L	20.0	0.38 U	98	75-115	2	18	

Metals by EPA 6000/7000 Series Methods - Quality Control

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0G23011 - EPA 245.1

Blank (0G23011-BLK1) Prepared: 07/23/2010 09:31 Analyzed: 07/23/2010 18:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (0G23011-BS1) Prepared: 07/23/2010 09:31 Analyzed: 07/23/2010 18:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.63		0.200	ug/L	5.00		113	85-115			

Matrix Spike (0G23011-MS1) Prepared: 07/23/2010 09:31 Analyzed: 07/23/2010 18:17

Source: C008028-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	6.16		0.200	ug/L	5.00	0.170 U	123	85-115			QM-07

Matrix Spike Dup (0G23011-MSD1) Prepared: 07/23/2010 09:31 Analyzed: 07/23/2010 18:31

Source: C008028-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	6.42		0.200	ug/L	5.00	0.170 U	128	85-115	4	15	QM-07

Post Spike (0G23011-PS1) Prepared: 07/23/2010 09:31 Analyzed: 07/23/2010 18:35

Source: C008028-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.87		0.200	ug/L	5.00	-0.0704	119	75-125			

Batch 0G23012 - EPA 245.1

Blank (0G23012-BLK1) Prepared: 07/23/2010 09:34 Analyzed: 07/23/2010 16:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (0G23012-BS1) Prepared: 07/23/2010 09:34 Analyzed: 07/23/2010 16:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.51		0.200	ug/L	5.00		110	85-115			

Matrix Spike (0G23012-MS1) Prepared: 07/23/2010 09:34 Analyzed: 07/23/2010 16:53

Source: C008080-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	6.80		0.200	ug/L	5.00	0.170 U	136	85-115			QM-07

Matrix Spike Dup (0G23012-MSD1) Prepared: 07/23/2010 09:34 Analyzed: 07/23/2010 16:56

Source: C008080-10

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0G23012 - EPA 245.1

Matrix Spike Dup (0G23012-MSD1) Continued Prepared: 07/23/2010 09:34 Analyzed: 07/23/2010 16:56

Source: C008080-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	6.94		0.200	ug/L	5.00	0.170 U	139	85-115	2	15	QM-07

Post Spike (0G23012-PS1) Prepared: 07/23/2010 09:34 Analyzed: 07/23/2010 16:59

Source: C008080-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.73		0.200	ug/L	5.00	-0.0302	115	75-125			

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0G22028 - EPA 3005A

Blank (0G22028-BLK1) Prepared: 07/22/2010 16:41 Analyzed: 08/02/2010 13:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.00	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Iron	22.0	U	50.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Manganese	1.10	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (0G22028-BS1) Prepared: 07/22/2010 16:41 Analyzed: 08/02/2010 13:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	563		10.0	ug/L	500		113	80-120			
Barium	539		10.0	ug/L	500		108	80-120			
Beryllium	280		1.00	ug/L	250		112	80-120			
Cadmium	272		1.00	ug/L	250		109	80-120			
Chromium	537		10.0	ug/L	500		107	80-120			
Cobalt	558		10.0	ug/L	500		112	80-120			
Copper	273		10.0	ug/L	250		109	80-120			
Iron	5330		50.0	ug/L	5000		107	80-120			
Lead	563		10.0	ug/L	500		113	80-120			
Manganese	267		10.0	ug/L	250		107	80-120			
Nickel	543		10.0	ug/L	500		109	80-120			
Silver	258		10.0	ug/L	250		103	80-120			
Vanadium	262		10.0	ug/L	250		105	80-120			
Zinc	545		10.0	ug/L	500		109	80-120			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0G22028 - EPA 3005A

Matrix Spike (0G22028-MS1) Prepared: 07/22/2010 16:41 Analyzed: 08/02/2010 13:27

Source: C008028-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	581		10.0	ug/L	500	2.80 U	116	75-125			
Barium	611		10.0	ug/L	500	41.6	114	75-125			
Beryllium	296		1.00	ug/L	250	1.12	118	75-125			
Cadmium	285		1.00	ug/L	250	0.924	113	75-125			
Chromium	560		10.0	ug/L	500	2.75	111	75-125			
Cobalt	574		10.0	ug/L	500	2.37	114	75-125			
Copper	282		10.0	ug/L	250	1.60 U	113	75-125			
Iron	6010		50.0	ug/L	5000	339	113	75-125			
Lead	576		10.0	ug/L	500	1.90 U	115	75-125			
Manganese	308		10.0	ug/L	250	26.2	113	75-125			
Nickel	566		10.0	ug/L	500	2.82	113	75-125			
Silver	303		10.0	ug/L	250	3.12	120	75-125			
Vanadium	274		10.0	ug/L	250	1.40 U	110	75-125			
Zinc	578		10.0	ug/L	500	5.52	115	75-125			

Matrix Spike Dup (0G22028-MSD1) Prepared: 07/22/2010 16:41 Analyzed: 08/02/2010 13:29

Source: C008028-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	579		10.0	ug/L	500	2.80 U	116	75-125	0.4	20	
Barium	601		10.0	ug/L	500	41.6	112	75-125	2	20	
Beryllium	291		1.00	ug/L	250	1.12	116	75-125	2	20	
Cadmium	280		1.00	ug/L	250	0.924	112	75-125	2	20	
Chromium	551		10.0	ug/L	500	2.75	110	75-125	2	20	
Cobalt	573		10.0	ug/L	500	2.37	114	75-125	0.2	20	
Copper	279		10.0	ug/L	250	1.60 U	112	75-125	1	20	
Iron	5890		50.0	ug/L	5000	339	111	75-125	2	20	
Lead	577		10.0	ug/L	500	1.90 U	115	75-125	0.2	20	
Manganese	303		10.0	ug/L	250	26.2	111	75-125	1	20	
Nickel	555		10.0	ug/L	500	2.82	110	75-125	2	20	
Silver	293		10.0	ug/L	250	3.12	116	75-125	3	20	
Vanadium	269		10.0	ug/L	250	1.40 U	108	75-125	2	20	
Zinc	569		10.0	ug/L	500	5.52	113	75-125	2	20	

Post Spike (0G22028-PS1) Prepared: 07/22/2010 16:41 Analyzed: 08/02/2010 13:32

Source: C008028-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.22		0.0100	mg/L	1.00	0.00132	122	80-120			QM-08
Barium	1.24		0.0100	mg/L	1.00	0.0416	120	80-120			
Beryllium	0.618		0.00100	mg/L	0.500	0.00112	123	80-120			QM-08
Cadmium	0.602		0.00100	mg/L	0.500	0.000924	120	80-120			
Chromium	1.20		0.0100	mg/L	1.00	0.00275	119	80-120			
Cobalt	1.18		0.0100	mg/L	1.00	0.00237	117	80-120			
Copper	0.610		0.0100	mg/L	0.500	0.00138	122	80-120			QM-08
Iron	12.2		0.0500	mg/L	10.0	0.339	118	80-120			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0G22028 - EPA 3005A

Post Spike (0G22028-PS1) Continued Prepared: 07/22/2010 16:41 Analyzed: 08/02/2010 13:32

Source: C008028-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	1.20		0.0100	mg/L	1.00	0.00102	120	80-120			
Manganese	0.624		0.0100	mg/L	0.500	0.0262	120	80-120			
Nickel	1.19		0.0100	mg/L	1.00	0.00282	118	80-120			
Silver	0.581		0.0100	mg/L	0.500	0.00312	116	80-120			
Vanadium	0.589		0.0100	mg/L	0.500	0.00133	117	80-120			
Zinc	1.22		0.0100	mg/L	1.00	0.00552	121	80-120			QM-08

Batch 0G22029 - EPA 3005A

Blank (0G22029-BLK1) Prepared: 07/22/2010 16:50 Analyzed: 07/28/2010 10:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Selenium	0.830	U	1.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (0G22029-BS1) Prepared: 07/22/2010 16:50 Analyzed: 07/28/2010 10:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	25.9		2.00	ug/L	25.0		103	80-120			
Selenium	26.2		1.00	ug/L	25.0		105	80-120			
Thallium	26.7		1.00	ug/L	25.0		107	80-120			

Matrix Spike (0G22029-MS1) Prepared: 07/22/2010 16:50 Analyzed: 07/28/2010 10:11

Source: C008028-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	25.7		2.00	ug/L	25.0	0.220 U	103	75-125			
Selenium	27.3		1.00	ug/L	25.0	0.830 U	109	75-125			
Thallium	27.0		1.00	ug/L	25.0	0.110 U	108	75-125			

Matrix Spike Dup (0G22029-MSD1) Prepared: 07/22/2010 16:50 Analyzed: 07/28/2010 10:14

Source: C008028-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	25.0		2.00	ug/L	25.0	0.220 U	100	75-125	2	20	
Selenium	25.7		1.00	ug/L	25.0	0.830 U	103	75-125	6	20	
Thallium	26.1		1.00	ug/L	25.0	0.110 U	104	75-125	3	20	

Post Spike (0G22029-PS1) Prepared: 07/22/2010 16:50 Analyzed: 07/28/2010 10:18

Source: C008028-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.6		2.00	ug/L	25.0	0.00600	110	80-120			
Selenium	28.3		1.00	ug/L	25.0	0.00500	113	80-120			
Thallium	28.4		1.00	ug/L	25.0	-0.0540	114	80-120			

www.encolabs.com

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0G22029 - EPA 3005A

Batch 0G23014 - EPA 3005A

Blank (0G23014-BLK1) Prepared: 07/23/2010 09:39 Analyzed: 07/29/2010 14:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	**3.46**	**J**	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.00	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Iron	22.0	U	50.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Manganese	1.10	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (0G23014-BS1) Prepared: 07/23/2010 09:39 Analyzed: 07/29/2010 14:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	545	B	10.0	ug/L	500		109	80-120			
Barium	512		10.0	ug/L	500		102	80-120			
Beryllium	268		1.00	ug/L	250		107	80-120			
Cadmium	259		1.00	ug/L	250		104	80-120			
Chromium	507		10.0	ug/L	500		101	80-120			
Cobalt	540		10.0	ug/L	500		108	80-120			
Copper	256		10.0	ug/L	250		103	80-120			
Iron	5030		50.0	ug/L	5000		101	80-120			
Lead	544		10.0	ug/L	500		109	80-120			
Manganese	252		10.0	ug/L	250		101	80-120			
Nickel	515		10.0	ug/L	500		103	80-120			
Silver	256		10.0	ug/L	250		103	80-120			
Vanadium	249		10.0	ug/L	250		99	80-120			
Zinc	519		10.0	ug/L	500		104	80-120			

Matrix Spike (0G23014-MS1) Prepared: 07/23/2010 09:39 Analyzed: 07/29/2010 15:09

Source: C008216-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	542	B	10.0	ug/L	500	9.79	106	75-125			
Barium	655		10.0	ug/L	500	120	107	75-125			
Beryllium	270		1.00	ug/L	250	0.100 U	108	75-125			
Cadmium	260		1.00	ug/L	250	0.360 U	104	75-125			
Chromium	538		10.0	ug/L	500	18.4	104	75-125			
Cobalt	561		10.0	ug/L	500	20.9	108	75-125			
Copper	324		10.0	ug/L	250	61.6	105	75-125			
Iron	29100		50.0	ug/L	5000	21000	161	75-125			QM-07

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0G23014 - EPA 3005A

Matrix Spike (0G23014-MS1) Continued Prepared: 07/23/2010 09:39 Analyzed: 07/29/2010 15:09

Source: C008216-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	570		10.0	ug/L	500	35.2	107	75-125			
Manganese	1130		10.0	ug/L	250	839	115	75-125			
Nickel	554		10.0	ug/L	500	32.0	104	75-125			
Silver	258		10.0	ug/L	250	1.90 U	103	75-125			
Vanadium	285		10.0	ug/L	250	24.4	104	75-125			
Zinc	653		10.0	ug/L	500	121	106	75-125			

Matrix Spike Dup (0G23014-MSD1) Prepared: 07/23/2010 09:39 Analyzed: 07/29/2010 15:12

Source: C008216-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	537	B	10.0	ug/L	500	9.79	106	75-125	0.8	20	
Barium	662		10.0	ug/L	500	120	108	75-125	1	20	
Beryllium	274		1.00	ug/L	250	0.100 U	110	75-125	1	20	
Cadmium	264		1.00	ug/L	250	0.360 U	105	75-125	1	20	
Chromium	547		10.0	ug/L	500	18.4	106	75-125	1	20	
Cobalt	562		10.0	ug/L	500	20.9	108	75-125	0.2	20	
Copper	328		10.0	ug/L	250	61.6	107	75-125	1	20	
Iron	29900		50.0	ug/L	5000	21000	178	75-125	3	20	QM-07
Lead	573		10.0	ug/L	500	35.2	108	75-125	0.6	20	
Manganese	1150		10.0	ug/L	250	839	124	75-125	2	20	
Nickel	564		10.0	ug/L	500	32.0	106	75-125	2	20	
Silver	260		10.0	ug/L	250	1.90 U	104	75-125	0.9	20	
Vanadium	289		10.0	ug/L	250	24.4	106	75-125	1	20	
Zinc	663		10.0	ug/L	500	121	108	75-125	1	20	

Post Spike (0G23014-PS1) Prepared: 07/23/2010 09:39 Analyzed: 07/29/2010 15:14

Source: C008216-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.20	B	0.0100	mg/L	1.00	0.00979	119	80-120			
Barium	1.30		0.0100	mg/L	1.00	0.120	118	80-120			
Beryllium	0.605		0.00100	mg/L	0.500	-0.000699	121	80-120			QM-08
Cadmium	0.592		0.00100	mg/L	0.500	6.72E-5	118	80-120			
Chromium	1.19		0.0100	mg/L	1.00	0.0184	117	80-120			
Cobalt	1.17		0.0100	mg/L	1.00	0.0209	115	80-120			
Copper	0.660		0.0100	mg/L	0.500	0.0616	120	80-120			
Iron	33.5		0.0500	mg/L	10.0	21.0	124	80-120			QM-08
Lead	1.22		0.0100	mg/L	1.00	0.0352	118	80-120			
Manganese	1.46		0.0100	mg/L	0.500	0.839	123	80-120			QM-08
Nickel	1.19		0.0100	mg/L	1.00	0.0320	116	80-120			
Silver	0.554		0.0100	mg/L	0.500	-0.000836	111	80-120			
Vanadium	0.604		0.0100	mg/L	0.500	0.0244	116	80-120			
Zinc	1.31		0.0100	mg/L	1.00	0.121	119	80-120			

Batch 0G23015 - EPA 3005A

www.encolabs.com

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0G23015 - EPA 3005A

Blank (0G23015-BLK1) Prepared: 07/23/2010 09:42 Analyzed: 07/28/2010 13:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Selenium	0.830	U	1.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (0G23015-BS1) Prepared: 07/23/2010 09:42 Analyzed: 07/28/2010 13:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	25.2		2.00	ug/L	25.0		101	80-120			
Selenium	26.1		1.00	ug/L	25.0		104	80-120			
Thallium	26.2		1.00	ug/L	25.0		105	80-120			

Matrix Spike (0G23015-MS1) Prepared: 07/23/2010 09:42 Analyzed: 07/28/2010 13:23

Source: C008825-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	25.7		2.00	ug/L	25.0	0.220 U	103	75-125			
Selenium	26.4		1.00	ug/L	25.0	0.881	102	75-125			
Thallium	26.0		1.00	ug/L	25.0	0.110 U	104	75-125			

Matrix Spike Dup (0G23015-MSD1) Prepared: 07/23/2010 09:42 Analyzed: 07/28/2010 13:27

Source: C008825-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	25.4		2.00	ug/L	25.0	0.220 U	102	75-125	1	20	
Selenium	26.7		1.00	ug/L	25.0	0.881	103	75-125	1	20	
Thallium	25.4		1.00	ug/L	25.0	0.110 U	102	75-125	2	20	

Post Spike (0G23015-PS1) Prepared: 07/23/2010 09:42 Analyzed: 07/28/2010 13:37

Source: C008825-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.1		2.00	ug/L	25.0	0.0570	108	80-120			
Selenium	29.2		1.00	ug/L	25.0	0.881	113	80-120			
Thallium	28.3		1.00	ug/L	25.0	-0.133	114	80-120			

Classical Chemistry Parameters - Quality Control

Batch 0G22004 - NO PREP

Blank (0G22004-BLK1) Prepared: 07/22/2010 06:37 Analyzed: 07/22/2010 07:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	**5.6**	**J**	100	ug/L							

LCS (0G22004-BS1) Prepared: 07/22/2010 06:37 Analyzed: 07/22/2010 07:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0G22004 - NO PREP

LCS (0G22004-BS1) Continued Prepared: 07/22/2010 06:37 Analyzed: 07/22/2010 07:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.95	B	0.10	mg/L	1.00		95	80-120			

Matrix Spike (0G22004-MS1) Prepared: 07/22/2010 06:37 Analyzed: 07/22/2010 08:05

Source: C007707-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.97	B	0.10	mg/L	1.00	0.013	95	80-120			

Matrix Spike Dup (0G22004-MSD1) Prepared: 07/22/2010 06:37 Analyzed: 07/22/2010 08:07

Source: C007707-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.95	B	0.10	mg/L	1.00	0.013	93	80-120	2	25	

Batch 0G22005 - NO PREP

Blank (0G22005-BLK1) Prepared & Analyzed: 07/22/2010 09:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2000	U	2000	ug/L							

LCS (0G22005-BS1) Prepared & Analyzed: 07/22/2010 09:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	210		2.0	mg/L	198		104	85-115			

Duplicate (0G22005-DUP1) Prepared & Analyzed: 07/22/2010 09:46

Source: C007747-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	8900		2000	ug/L		23000			87	25	B-09, QM-12

Batch 0G22030 - NO PREP

Blank (0G22030-BLK1) Prepared & Analyzed: 07/22/2010 10:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2000	U	2000	ug/L							B-03

LCS (0G22030-BS1) Prepared & Analyzed: 07/22/2010 10:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	210		2.0	mg/L	198		108	85-115			

Duplicate (0G22030-DUP1) Prepared & Analyzed: 07/22/2010 10:06

Source: C008825-04

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0G22030 - NO PREP

Duplicate (0G22030-DUP1) Continued Prepared & Analyzed: 07/22/2010 10:06

Source: C008825-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2000	U	2000	ug/L		2000 U				25	

Batch 0G23001 - NO PREP

Blank (0G23001-BLK1) Prepared: 07/23/2010 06:29 Analyzed: 07/23/2010 07:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	5.6	U	100	ug/L							

LCS (0G23001-BS1) Prepared: 07/23/2010 06:29 Analyzed: 07/23/2010 07:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.97		0.10	mg/L	1.00		97	80-120			

Matrix Spike (0G23001-MS1) Prepared: 07/23/2010 06:29 Analyzed: 07/23/2010 07:33

Source: C008029-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.96		0.10	mg/L	1.00	0.011	95	80-120			

Matrix Spike Dup (0G23001-MSD1) Prepared: 07/23/2010 06:29 Analyzed: 07/23/2010 07:34

Source: C008029-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.97		0.10	mg/L	1.00	0.011	96	80-120	0.7	25	

Batch 0G23003 - NO PREP

Blank (0G23003-BLK1) Prepared: 07/23/2010 07:25 Analyzed: 07/23/2010 08:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	8000	U	15000	ug/L							

LCS (0G23003-BS1) Prepared: 07/23/2010 07:25 Analyzed: 07/23/2010 08:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	97		15	mg/L	100		97	80-120			

Matrix Spike (0G23003-MS1) Prepared: 07/23/2010 07:25 Analyzed: 07/23/2010 09:02

Source: C008088-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	47		15	mg/L	37.8	8.0 U	123	80-120			QM-05

Matrix Spike Dup (0G23003-MSD1) Prepared: 07/23/2010 07:25 Analyzed: 07/23/2010 09:03

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0G23003 - NO PREP

Matrix Spike Dup (0G23003-MSD1) Continued Prepared: 07/23/2010 07:25 Analyzed: 07/23/2010 09:03

Source: C008088-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	46		15	mg/L	37.8	8.0 U	121	80-120	2	25	QM-05

Batch 0G24004 - NO PREP

Blank (0G24004-BLK1) Prepared & Analyzed: 07/25/2010 23:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	10000	U	10000	ug/L							

LCS (0G24004-BS1) Prepared & Analyzed: 07/25/2010 23:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	290		10	mg/L	300		97	90-110			

Duplicate (0G24004-DUP1) Prepared & Analyzed: 07/25/2010 23:26

Source: C007666-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	78000		10000	ug/L		74000			5	10	

Batch 0G26009 - NO PREP

Blank (0G26009-BLK1) Prepared: 07/26/2010 07:57 Analyzed: 07/26/2010 14:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	18	U	5000	ug/L							
Sulfate as SO4	120	U	5000	ug/L							

LCS (0G26009-BS1) Prepared: 07/26/2010 07:57 Analyzed: 07/26/2010 14:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	48		5.0	mg/L	50.0		97	90-110			
Sulfate as SO4	47		5.0	mg/L	50.0		93	90-110			

Matrix Spike (0G26009-MS2) Prepared: 07/26/2010 07:57 Analyzed: 07/26/2010 15:42

Source: C007826-01RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	83		5.0	mg/L	20.0	63	102	80-120			
Sulfate as SO4	49		5.0	mg/L	20.0	30	95	80-120			

Matrix Spike Dup (0G26009-MSD2) Prepared: 07/26/2010 07:57 Analyzed: 07/26/2010 16:00

Source: C007826-01RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0G26009 - NO PREP

Matrix Spike Dup (0G26009-MSD2) Continued Prepared: 07/26/2010 07:57 Analyzed: 07/26/2010 16:00

Source: C007826-01RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	83		5.0	mg/L	20.0	63	101	80-120	0.2	15	
Sulfate as SO4	48		5.0	mg/L	20.0	30	94	80-120	0.3	15	

Batch 0G26017 - Same

Blank (0G26017-BLK1) Prepared: 07/26/2010 11:15 Analyzed: 07/26/2010 13:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	2800	U	10000	ug/L							

LCS (0G26017-BS1) Prepared: 07/26/2010 11:15 Analyzed: 07/26/2010 13:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	510000		10000	ug/L	500000		101	90-110			

Matrix Spike (0G26017-MS1) Prepared: 07/26/2010 11:15 Analyzed: 07/26/2010 13:45

Source: C007635-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	24000000		400000	ug/L	2.00E7	4700000	98	90-110			

Matrix Spike Dup (0G26017-MSD1) Prepared: 07/26/2010 11:15 Analyzed: 07/26/2010 13:45

Source: C007635-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	24000000		400000	ug/L	2.00E7	4700000	98	90-110	0.4	10	

Batch 0G26018 - NO PREP

Blank (0G26018-BLK1) Prepared: 07/26/2010 14:28 Analyzed: 07/26/2010 14:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	31	U	100	ug/L							

LCS (0G26018-BS1) Prepared: 07/26/2010 14:28 Analyzed: 07/26/2010 14:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.39		0.10	mg/L	0.401		97	80-120			

Matrix Spike (0G26018-MS1) Prepared: 07/26/2010 14:28 Analyzed: 07/26/2010 14:58

Source: C008080-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	460		100	ug/L	401	84	93	80-120			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0G26018 - NO PREP

Matrix Spike Dup (0G26018-MSD1) Prepared: 07/26/2010 14:28 Analyzed: 07/26/2010 14:58

Source: C008080-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	450		100	ug/L	401	84	91	80-120	1	25	

Batch 0G27002 - NO PREP

Blank (0G27002-BLK1) Prepared: 07/27/2010 07:20 Analyzed: 07/27/2010 08:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	18	U	5000	ug/L							
Sulfate as SO4	120	U	5000	ug/L							

LCS (0G27002-BS1) Prepared: 07/27/2010 07:20 Analyzed: 07/27/2010 08:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	48		5.0	mg/L	50.0		96	90-110			
Sulfate as SO4	48		5.0	mg/L	50.0		95	90-110			

Matrix Spike (0G27002-MS1) Prepared: 07/27/2010 07:20 Analyzed: 07/27/2010 08:44

Source: C008080-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	28		5.0	mg/L	20.0	10	91	80-120			

Matrix Spike (0G27002-MS2) Prepared: 07/27/2010 07:20 Analyzed: 07/27/2010 09:21

Source: C008080-07RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	88		5.0	mg/L	20.0	68	103	80-120			

Matrix Spike Dup (0G27002-MSD1) Prepared: 07/27/2010 07:20 Analyzed: 07/27/2010 09:03

Source: C008080-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	28		5.0	mg/L	20.0	10	92	80-120	0.6	15	

Matrix Spike Dup (0G27002-MSD2) Prepared: 07/27/2010 07:20 Analyzed: 07/27/2010 09:40

Source: C008080-07RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	89		5.0	mg/L	20.0	68	104	80-120	0.07	15	

Batch 0G28004 - NO PREP

Blank (0G28004-BLK1) Prepared: 07/28/2010 06:42 Analyzed: 07/28/2010 09:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0G28004 - NO PREP

Blank (0G28004-BLK1) Continued Prepared: 07/28/2010 06:42 Analyzed: 07/28/2010 09:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	25	U	100	ug/L							

LCS (0G28004-BS1) Prepared: 07/28/2010 06:42 Analyzed: 07/28/2010 09:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.3		0.10	mg/L	1.25		102	80-120			

Matrix Spike (0G28004-MS1) Prepared: 07/28/2010 06:42 Analyzed: 07/28/2010 11:01

Source: C007707-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	2.1		0.10	mg/L	0.500	1.6	108	80-120			

Matrix Spike Dup (0G28004-MSD1) Prepared: 07/28/2010 06:42 Analyzed: 07/28/2010 11:03

Source: C007707-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	2.1		0.10	mg/L	0.500	1.6	110	80-120	0.6	25	

Batch 0G28019 - NO PREP

Blank (0G28019-BLK1) Prepared: 07/28/2010 10:09 Analyzed: 07/28/2010 11:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	25	U	100	ug/L							

LCS (0G28019-BS1) Prepared: 07/28/2010 10:09 Analyzed: 07/28/2010 11:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.3		0.10	mg/L	1.25		107	80-120			

Matrix Spike (0G28019-MS1) Prepared: 07/28/2010 10:09 Analyzed: 07/28/2010 11:40

Source: C006977-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.7		0.10	mg/L	0.500	1.1	122	80-120			QM-16

Matrix Spike Dup (0G28019-MSD1) Prepared: 07/28/2010 10:09 Analyzed: 07/28/2010 11:42

Source: C006977-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.8		0.10	mg/L	0.500	1.1	149	80-120	8	25	QM-16

Batch 0G28024 - NO PREP

Blank (0G28024-BLK1) Prepared & Analyzed: 07/28/2010 23:16

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0G28024 - NO PREP

Blank (0G28024-BLK1) Continued Prepared & Analyzed: 07/28/2010 23:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	10000	U	10000	ug/L							

LCS (0G28024-BS1) Prepared & Analyzed: 07/28/2010 23:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	310		10	mg/L	300		103	90-110			

Duplicate (0G28024-DUP1) Prepared & Analyzed: 07/28/2010 23:16

Source: C008731-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	640000		10000	ug/L		640000			0.6	10	

Batch 0G30008 - Same

Blank (0G30008-BLK1) Prepared: 07/30/2010 08:00 Analyzed: 07/30/2010 10:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	2800	U	10000	ug/L							

LCS (0G30008-BS1) Prepared: 07/30/2010 08:00 Analyzed: 07/30/2010 10:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	510000		10000	ug/L	500000		101	90-110			

Matrix Spike (0G30008-MS1) Prepared: 07/30/2010 08:00 Analyzed: 07/30/2010 10:30

Source: C001974-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	700000		10000	ug/L	500000	190000	101	90-110			

Matrix Spike Dup (0G30008-MSD1) Prepared: 07/30/2010 08:00 Analyzed: 07/30/2010 10:30

Source: C001974-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	700000		10000	ug/L	500000	190000	101	90-110	0	10	

QUALITY CONTROL

Dissolved Gases by GC - Quality Control

Batch 0G27008 - NO PREP ANALYTIX

Blank (0G27008-BLK1) Prepared: 07/27/2010 11:35 Analyzed: 07/27/2010 14:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	780	U	2500	ug/L							
Ethane	0.450	U	2.00	ug/L							

QUALITY CONTROL

Dissolved Gases by GC - Quality Control

Batch 0G27008 - NO PREP ANALYTIX

Blank (0G27008-BLK1) Continued Prepared: 07/27/2010 11:35 Analyzed: 07/27/2010 14:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ethene	0.410	U	2.00	ug/L							
Methane	0.250	U	1.00	ug/L							

LCS (0G27008-BS1) Prepared: 07/27/2010 11:35 Analyzed: 07/27/2010 14:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	23400		2500	ug/L	26300		89	71-119			
Ethane	162		2.00	ug/L	179		91	75-123			
Ethene	155		2.00	ug/L	167		93	72-131			
Methane	86.9		1.00	ug/L	95.8		91	74-116			

Matrix Spike (0G27008-MS1) Prepared: 07/27/2010 11:35 Analyzed: 07/27/2010 14:48

Source: B003448-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	115000		2500	ug/L	26300	89700	97	71-119			
Ethane	158		2.00	ug/L	179	0.450 U	89	75-123			
Ethene	154		2.00	ug/L	167	0.410 U	92	72-131			
Methane	1610		1.00	ug/L	95.8	1110	525	74-116			QM-02

Matrix Spike Dup (0G27008-MSD1) Prepared: 07/27/2010 11:35 Analyzed: 07/27/2010 14:52

Source: B003448-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	115000		2500	ug/L	26300	89700	98	71-119	0.2	10	
Ethane	167		2.00	ug/L	179	0.450 U	93	75-123	5	14	
Ethene	162		2.00	ug/L	167	0.410 U	97	72-131	5	12	
Methane	1690		1.00	ug/L	95.8	1110	604	74-116	5	18	QM-02

Volatile Fatty Acids by HPLC - Quality Control

Batch 0G26005 - NO PREP ANALYTIX

Blank (0G26005-BLK1) Prepared: 07/26/2010 10:22 Analyzed: 07/26/2010 10:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	83	U	500	ug/L							
Butyric Acid	160	U	500	ug/L							
Hexanoic Acid	230	U	1000	ug/L							
HIBA (2-Hydroxyisobutyric Acid)	160	U	500	ug/L							
iso-Hexanoic Acid	210	U	1000	ug/L							
iso-Pentanoic Acid	260	U	500	ug/L							
Lactic Acid	440	U	500	ug/L							
Pentanoic Acid	270	U	500	ug/L							
Propionic Acid	180	U	500	ug/L							
Pyruvic Acid	140	U	500	ug/L							
Surrogate: Trimethylacetic acid	*150000*			*ug/L*	*125000*		*119*	*80-124*			

QUALITY CONTROL

Volatile Fatty Acids by HPLC - Quality Control

Batch 0G26005 - NO PREP ANALYTIX

LCS (0G26005-BS1) Prepared: 07/26/2010 10:22 Analyzed: 07/26/2010 11:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	19000		500	ug/L	20000		93	73-125			
Butyric Acid	22000		500	ug/L	20000		111	80-120			
Hexanoic Acid	21000		1000	ug/L	20000		106	78-120			
HIBA (2-Hydroxyisobutyric Acid)	18000		500	ug/L	20000		91	80-120			
iso-Hexanoic Acid	20000		1000	ug/L	20000		101	80-120			
iso-Pentanoic Acid	20000		500	ug/L	20000		98	78-120			
Lactic Acid	14000		500	ug/L	20000		69	56-154			
Pentanoic Acid	19000		500	ug/L	20000		96	77-120			
Propionic Acid	21000		500	ug/L	20000		105	80-120			
Pyruvic Acid	15000		500	ug/L	20000		73	37-142			
Surrogate: Trimethylacetic acid	*140000*			*ug/L*	*125000*		*108*	*80-124*			

Matrix Spike (0G26005-MS1) Prepared: 07/26/2010 10:22 Analyzed: 07/26/2010 12:55

Source: C008825-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	19000		500	ug/L	20000	83 U	95	73-125			
Butyric Acid	22000		500	ug/L	20000	160 U	109	80-120			
Hexanoic Acid	23000		1000	ug/L	20000	230 U	113	78-120			
HIBA (2-Hydroxyisobutyric Acid)	16000		500	ug/L	20000	160 U	82	80-120			
iso-Hexanoic Acid	21000		1000	ug/L	20000	210 U	103	80-120			
iso-Pentanoic Acid	20000		500	ug/L	20000	260 U	102	78-120			
Lactic Acid	16000		500	ug/L	20000	440 U	78	56-154			
Pentanoic Acid	20000		500	ug/L	20000	270 U	98	77-120			
Propionic Acid	21000		500	ug/L	20000	180 U	106	80-120			
Pyruvic Acid	15000		500	ug/L	20000	140 U	77	37-142			
Surrogate: Trimethylacetic acid	*130000*			*ug/L*	*125000*		*107*	*80-124*			

Matrix Spike Dup (0G26005-MSD1) Prepared: 07/26/2010 10:22 Analyzed: 07/26/2010 13:57

Source: C008825-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	19000		500	ug/L	20000	83 U	95	73-125	0.2	10	
Butyric Acid	22000		500	ug/L	20000	160 U	109	80-120	0.5	10	
Hexanoic Acid	23000		1000	ug/L	20000	230 U	114	78-120	0.3	34	
HIBA (2-Hydroxyisobutyric Acid)	16000		500	ug/L	20000	160 U	81	80-120	2	15	
iso-Hexanoic Acid	20000		1000	ug/L	20000	210 U	102	80-120	1	15	
iso-Pentanoic Acid	20000		500	ug/L	20000	260 U	98	78-120	4	15	
Lactic Acid	15000		500	ug/L	20000	440 U	77	56-154	2	19	
Pentanoic Acid	20000		500	ug/L	20000	270 U	99	77-120	0.5	10	
Propionic Acid	21000		500	ug/L	20000	180 U	107	80-120	1	10	
Pyruvic Acid	16000		500	ug/L	20000	140 U	79	37-142	2	10	
Surrogate: Trimethylacetic acid	*140000*			*ug/L*	*125000*		*109*	*80-124*			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0G28006 - NO PREP

Blank (0G28006-BLK1) Prepared: 07/28/2010 08:42 Analyzed: 07/28/2010 12:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	320	U	1000	ug/L							

LCS (0G28006-BS1) Prepared: 07/28/2010 08:42 Analyzed: 07/28/2010 12:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	44000		1000	ug/L	41600		106	85-115			

Matrix Spike (0G28006-MS1) Prepared: 07/28/2010 08:42 Analyzed: 07/28/2010 12:30

Source: C008825-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	48000		1000	ug/L	40000	6100	105	85-115			

Matrix Spike Dup (0G28006-MSD1) Prepared: 07/28/2010 08:42 Analyzed: 07/28/2010 12:30

Source: C008825-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	49000		1000	ug/L	40000	6100	106	85-115	1	21	

Batch 0G29002 - NO PREP

Blank (0G29002-BLK1) Prepared: 07/29/2010 08:20 Analyzed: 07/29/2010 11:53

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	320	U	1000	ug/L							

LCS (0G29002-BS1) Prepared: 07/29/2010 08:20 Analyzed: 07/29/2010 11:53

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	42000		1000	ug/L	41600		100	85-115			

Matrix Spike (0G29002-MS1) Prepared: 07/29/2010 08:20 Analyzed: 07/29/2010 11:53

Source: C008088-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	45000		1000	ug/L	40000	1900	107	85-115			

Matrix Spike Dup (0G29002-MSD1) Prepared: 07/29/2010 08:20 Analyzed: 07/29/2010 11:53

Source: C008088-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	45000		1000	ug/L	40000	1900	107	85-115	0.2	21	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
B-03	Blank exceeds the method required oxygen depletion of < 0.2 mg/L.
B-09	Dissolved oxygen depletion data is consistent with samples exhibiting seed toxicity
J-01	Result is estimated due to positive results in the associated method blank.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-08	Post-digestion spike did not meet method requirements due to confirmed matrix effects (dilution test).
QM-12	Precision between duplicate samples was outside acceptance limits.
QM-16	Matrix spike recovery could not be calculated due to high concentrations of analyte in source sample.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page 1 of 4

Client Name: S&ME, Inc. (SM001)	Project Number: 1054-07-238C
Address: 3201 Spring Forest Road	Project Name/Desc: Edgecombe County Landfill - July
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info
Tel: (919) 872-2660 Fax: (919) 876-3958	Reporting Contact: Michelle Logut
Sampler(s) Name, Affiliation (Print): MICHELLE LOGUT / BOB BEYANT	Billing Contact: Accounts Payable
Sampler(s) Signature: M. Logut / Bob Beyant	Facility # (if required)

Requested Analyses: 8260B Appendix 1; Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Ni,Pb,Sb,Se,Tl,V,Zn; Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn; Alkalinity 310.2,Chloride 300,Nitrite as N 353.2; BOD SM5210B; COD SM5220D; Fatty Acids; Nitrate Calc 353.2; NOX 353.2; RSK 175 + CO2

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: C008088

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Ni,Pb,Sb,Se,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.2,Chloride 300,Nitrite as N 353.2	BOD SM5210B	COD SM5220D	Fatty Acids	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sample Comments
	3301-MW3B	7/20/10	10:50	GRAB	GW	11	X	X		X	X	X		X	X		
	3301-MW4	↓	12:05	↓	GW	17	X	X		X	X	X	X	X	X	X	
	~~3301-MW5~~				~~GW~~	~~17~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	
	3301-MW6	7/20/10	13:00	GRAB	GW	11	X	X		X	X	X		X	X		
	~~3301-MW7A~~				~~GW~~	~~11~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~		~~X~~	~~X~~		
	3301-MW9	7/20/10	10:05	GRAB	GW	11	X	X		X	X	X		X	X		
	~~3301-MW12~~				~~GW~~	~~17~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	
	~~3301-MW13~~				~~GW~~	~~11~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~		~~X~~	~~X~~		
	3301-MW14	7/20/10	14:10	GRAB	GW	11	X	X		X	X	X		X	X		
	~~3301-MW15~~				~~GW~~	~~11~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~		~~X~~	~~X~~		
	3301-MW16	7/20/10	16:15	GRAB	GW	17	X	X		X	X	X	X	X	X	X	
	~~3301-Upstream (SW-1)~~				~~GW~~	~~4~~	~~X~~		~~X~~								

<-- Total # of Containers

Sample Kit Prepared By: JK	Date/Time: 7-9-10	Relinquished By: Bob Beyant	Date/Time: 7/21/10 0850	Received By: [signature]	Date/Time: 7/21/10 1040
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By: [signature]	Date/Time: 7/21 130
		Cooler #'s & Temps on Receipt: E-8 C-299 3.1°C C-733 2.7°C Blue		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

www.encolabs.com

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name: S&ME, Inc. (SM001)
Project Number: 1054-07-238C
Address: 3201 Spring Forest Road
Project Name/Desc: Edgecombe County Landfill - July
City/ST/Zip: Raleigh, NC 27616
PO # / Billing Info:
Tel: (919) 872-2660 Fax: (919) 876-3958
Reporting Contact: Michelle Logut
Sampler(s) Name, Affiliation (Print): MICHELLE LOGUT / BOB BRYANT
Billing Contact: Accounts Payable
Sampler(s) Signature: M. Logut Bob Bryant
Facility # (if required):

Requested Analyses

Requested Turnaround Times
Note : Rush requests subject to acceptance by the facility
___ Standard
___ Expedited
Due __/__/__

Lab Workorder: C008088

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B	IRON	TDS	MERCURY	MANGANESE				Sample Comments
	3301-MW3B	7/20/10	10:50	GRAB	GW	11	X	X	X	X	X	X	X				
	3301-MW4	↓	12:05	↓	GW	17	X	X	X	X	X	X	X				
	~~3301-MW5~~				~~GW~~	~~17~~	~~X~~	~~X~~	~~X~~								
	3301-MW6	7/20/10	15:00	GRAB	GW	11	X	X	X	X	X	X	X				
	~~3301-MW7A~~				~~GW~~	~~11~~	~~X~~	~~X~~	~~X~~								
	3301-MW9	7/20/10	10:05	GRAB	GW	11	X	X	X	X	X	X	X				
	~~3301-MW12~~				~~GW~~	~~17~~	~~X~~	~~X~~	~~X~~								
	~~3301-MW13~~				~~GW~~	~~11~~	~~X~~	~~X~~	X								
	3301-MW14	7/20/10	14:10	GRAB	GW	11	X	X	X	X	X	X	X				
	~~3301-MW15~~				~~GW~~	~~11~~	~~X~~	~~X~~	~~X~~								
	3301-MW16	7/20/10	16:15	GRAB	GW	17	X	X	X	X	X	X	X				
	~~3301-Upstream (SW-1)~~				~~GW~~	~~4~~											

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		Bob Bryant	7/21/10 0850	[illegible]	7/21/10 1040
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By [illegible]	Date/Time 7/21 130

Cooler #'s & Temps on Receipt: E-8 C-299 C-733 Blue

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name: S&ME, Inc. (SM001)	Project Number: 1054-07-238C
Address: 3201 Spring Forest Road	Project Name/Desc: Edgecombe County Landfill - July
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info
Tel: (919) 872-2660 Fax: (919) 876-3958	Reporting Contact: Michelle Logut
Sampler(s) Name, Affiliation (Print): MICHELLE LOGUT / GERALD PAUL	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required)

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: ~~C008088~~

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Ni,Pb,Sb,Se,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.2,Chloride 300,Nitrate as N 353.2	BOD SM5210B	COD SM5220D	Fatty Acids	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sample Comments
	~~3301-MW3B~~				~~GW~~	~~11~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~		~~X~~	~~X~~		C008825
	~~3301-MW4~~				~~GW~~	~~17~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	
	3301-MW5	7/21/10	14:55	GRAB	GW	17	X	X		X	X	X	X	X	X	X	
	~~3301-MW6~~				~~GW~~	~~11~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~		~~X~~	~~X~~		
	3301-MW7A	7/21/10	10:55	GRAB	GW	11	X	X		X	X	X		X	X		
	~~3301-MW9~~				~~GW~~	~~11~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~		~~X~~	~~X~~		
	3301-MW12	7/21/10	10:15	GRAB	GW	17	X	X		X	X	X	X	X	X	X	
	3301-MW13	7/21/10	11:45	↓	GW	11	X	X		X	X	X		X	X		
	~~3301-MW14~~				~~GW~~	~~11~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~		~~X~~	~~X~~		
	3301-MW15	7/21/10	13:55	GRAB	GW	11	X	X		X	X	X		X	X		
	~~3301-MW16~~				~~GW~~	~~17~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	
	~~3301-Upstream (SW-1)~~				~~GW~~	~~4~~	~~X~~		~~X~~								

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
JK	7-9-10	[signature]	7/21/10 1810	[signature]	7/21/10 1815
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: E-8 2.7°C C-299 C-733 Blue 2.6°C

Condition Upon Receipt: ✓ Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.

www.encolabs.com

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name: S&ME, Inc. (SM001)	Project Number: 1054-07-238C
Address: 3201 Spring Forest Road	Project Name/Desc: Edgecombe County Landfill - July
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info:
Tel: (919) 872-2660 Fax: (919) 876-3958	Reporting Contact: Michelle Logut
Sampler(s) Name, Affiliation (Print): MICHELLE LOGUT / GERALD PAUL	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses: Sulfate 300; Sulfide SM4500-S D; TOC SM5310B; IRON; TDS; MERCURY; MANGANESE

Requested Turnaround Times: Note : Rush requests subject to acceptance by the facility — X Standard; ___ Expedited; Due __/__/__

Lab Workorder: ~~C008088~~

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B	IRON	TDS	MERCURY	MANGANESE				Sample Comments
	~~3301-MW3B~~				GW	11	X	X	X								C008825
	~~3301-MW4~~				GW	17	X	X	X								
	3301-MW5	7/21/10	14:55	GRAB	GW	17	X	X	X	X	X	X	X				
	~~3301-MW6~~				GW	11	X	X	X								
	3301-MW7A	7/21/10	10:55	GRAB	GW	11	X	X	X	X	X	X	X				
	~~3301-MW9~~				GW	11	X	X	X								
	3301-MW12	7/21/10	10:15	GRAB	GW	17	X	X	X	X	X	X	X				
	3301-MW13	↓	11:45	↓	GW	11	X	X	X	X	X	X	X				
	~~3301-MW14~~				GW	11	X	X	X								
	3301-MW15	7/21/10	13:55	GRAB	GW	11	X	X	X	X	X	X	X				
	~~3301-MW16~~				GW	17	X	X	X								
	~~3301-Upstream (SW-1)~~				GW	4											

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	7/21/10 1810	[signature]	7/21/10 1815
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: E-8 2.7C C-299 C-733 Blue 2.6°C

Condition Upon Receipt: ✓ Acceptable ___ Unacceptable

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name: S&ME, Inc. (SM001)	Project Number: 1054-07-238C
Address: 3201 Spring Forest Road	Project Name/Desc: Edgecombe County Landfill - July
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info:
Tel: (919) 872-2660 Fax: (919) 876-3958	Reporting Contact: Michelle Logut
Sampler(s) Name, Affiliation (Print): MICHELLE LOGUT / GERALD PAUL	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature] / [signature]	Facility # (if required):

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

__ Expedited

Due __/__/__

Lab Workorder: ~~C008088~~

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Ni,Pb,Sb,Se,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.2,Chloride 300,Nitrite as N 353.2	BOD SM5210B	COD SM5220D	Fatty Acids	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sample Comments
	~~3301-Downstream (SW-2)~~				~~GW~~	~~4~~	~~X~~		~~X~~								C008825
	3301-Duplicate	7/21/10	—	GRAB	GW	4	X		X								
	3301-Equipment Blank	↓	15:00	—	WA	4	X		X								
	3301-Trip Blank	—	—	—	WA	2	X										Trip blank was
																	received 7/21/10
																	BSG 7/22/10

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: [signature] 1810	Date/Time: 7/21/10	Received By: [signature]	Date/Time: 7/21/10 1815
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: E-8 0.7°C C-299 C-733 Blue 0.6°C

Condition Upon Receipt: ✓ Acceptable __ Unacceptable

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

APPENDIX II

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

APPENDIX III

(GROUNDWATER VELOCITY CALCULATIONS)

S&ME

JOB NO.	1054-07-238C
SHEET NO.	1 of 1
DATE	7/20/2010
COMPUTED BY	MLL
CHECKED BY	

JOB NAME Edgecombe County Landfill
SUBJECT Hydraulic Gradient

PURPOSE:

To determine the average true hydraulic gradient.

GIVEN:

Well	GW Elev
MW-3B	70.44
MW-5	40.37
MW-7A	52.65
P-1	64.77

CALCULATION:

Calculate the average of three point solutions using wells MW-5, MW-7A, MW-3B or P-1.

GRADIENT:

$$i = \frac{h_1 - h_2}{L}$$

Where: i = Hydraulic Gradient (ft/ft)
$h_1 - h_2$ = Difference in Hydraulic Head (ft)
L = Distance Along Flow Path (ft)

Where distance between h_1 and h_2 is parallel to flow, determined by projection from 3 point problem.

$$i_1 = \frac{\text{MW-3B} - \text{MW-5}}{L_1} = \frac{70.44 - 40.37}{1{,}485} = \mathbf{0.02025} \quad \mathbf{ft/ft}$$

Use Elevation of Groundwater at MW-7A to establish 52.65' elevation between MW-3B and MW-5.

$$\frac{\text{MW-3B - MW-7A}}{\text{gradient (MW-3B and MW-5)}} = \frac{70.44 - 52.65}{0.02025} = 878.56 \quad \text{ft}$$

Draw line from MW-7A to point located 878.56 feet from MW-3B to MW-5.

Measure new distance between MW-3B and MW-5 perpendicular to line plotted for 52.65' contour. Recalculate Gradient.

$$i_1 = \frac{\text{MW-3B} - \text{MW-5}}{\text{New } L_1} = \frac{70.44 - 40.37}{1{,}480} = \mathbf{0.02032} \quad \mathbf{ft/ft}$$

True Hydraulic Gradient, i_1 = 0.02032 ft/ft

$$i_2 = \frac{\text{P-1} - \text{MW-5}}{L_2} = \frac{64.77 - 40.37}{1{,}300} = \mathbf{0.01877} \quad \mathbf{ft/ft}$$

Use Elevation of Groundwater at MW-7A to establish 52.65' elevation between P-1 and MW-5.

$$\frac{\text{P-1 - MW-7A}}{\text{gradient (P-1 and MW-5)}} = \frac{64.77 - 52.65}{0.018769} = 645.74 \quad \text{ft}$$

Draw line from MW-7A to point located 645.74 feet from P-1 to MW-5.

Measure new distance between P-1 and MW-5 perpendicular to line plotted for 52.65' contour. Recalculate Gradient.

$$i_2 = \frac{\text{P-1} - \text{MW-5}}{\text{New } L_2} = \frac{64.77 - 40.37}{1{,}190} = \mathbf{0.02050} \quad \mathbf{ft/ft}$$

True Hydraulic Gradient, i_2 = 0.02050 ft/ft

AVERAGE TRUE HYDRAULIC GRADIENT, i_{AVG} = 0.0204 ft/ft

CONCLUSION:

The Average True Hydraulic gradient, i_{AVG} equals **0.0204 ft/ft**.

S&ME

JOB NO.	1054-07-238C
SHEET NO.	1 of 1
DATE	7/20/2010
COMPUTED BY	MLL
CHECKED BY	

JOB NAME Edgecombe County Landfill
SUBJECT Velocity Calculation

PURPOSE:

To determine the average groundwater flow velocity.

CALCULATION:

$$V = \frac{Ki}{n}$$

Where:

V = Average Linear Groundwater Flow Velocity (feet/year = ft/yr)
K = Hydraulic Conductivity (ft/yr)
i = Average True Hydraulic Gradient (ft/ft)
n = Effective Soil Porosity (percent)

$K_{A\ ZONE}$ =	**5.95E-05**	cm/sec		
Convert $K_{A\ ZONE}$ from cm/sec to ft/min =	**5.95E-05**	*	1.9685	
=	0.00011713	ft/min		
Convert $K_{A\ ZONE}$ from ft/min to ft/yr =	0.00011713	ft/min *	1440	min/day
=	0.16866108	ft/day *	365	day/yr
=	**61.561**	**ft/year**		

Average True Gradient, i_{AVG} (MW-3B to MW-5):	**0.0204**	**ft/ft**
n:	**15%**	

$$V = \frac{K_{A\ ZONE}\, i}{n}$$

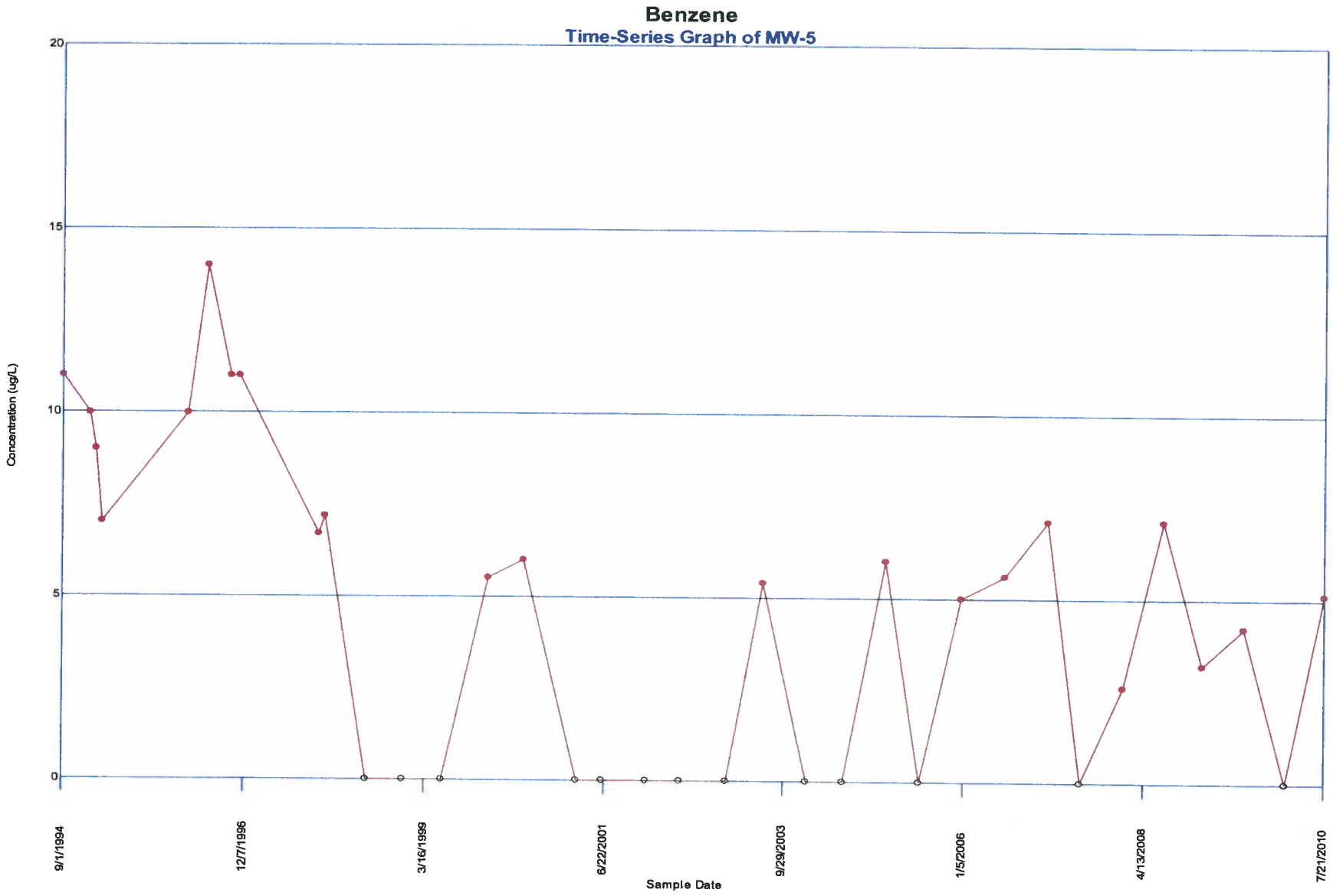
$$V = \frac{61.561\ ft/yr * 0.0204\ ft/ft}{0.15} = 8.3723\ ft/yr$$

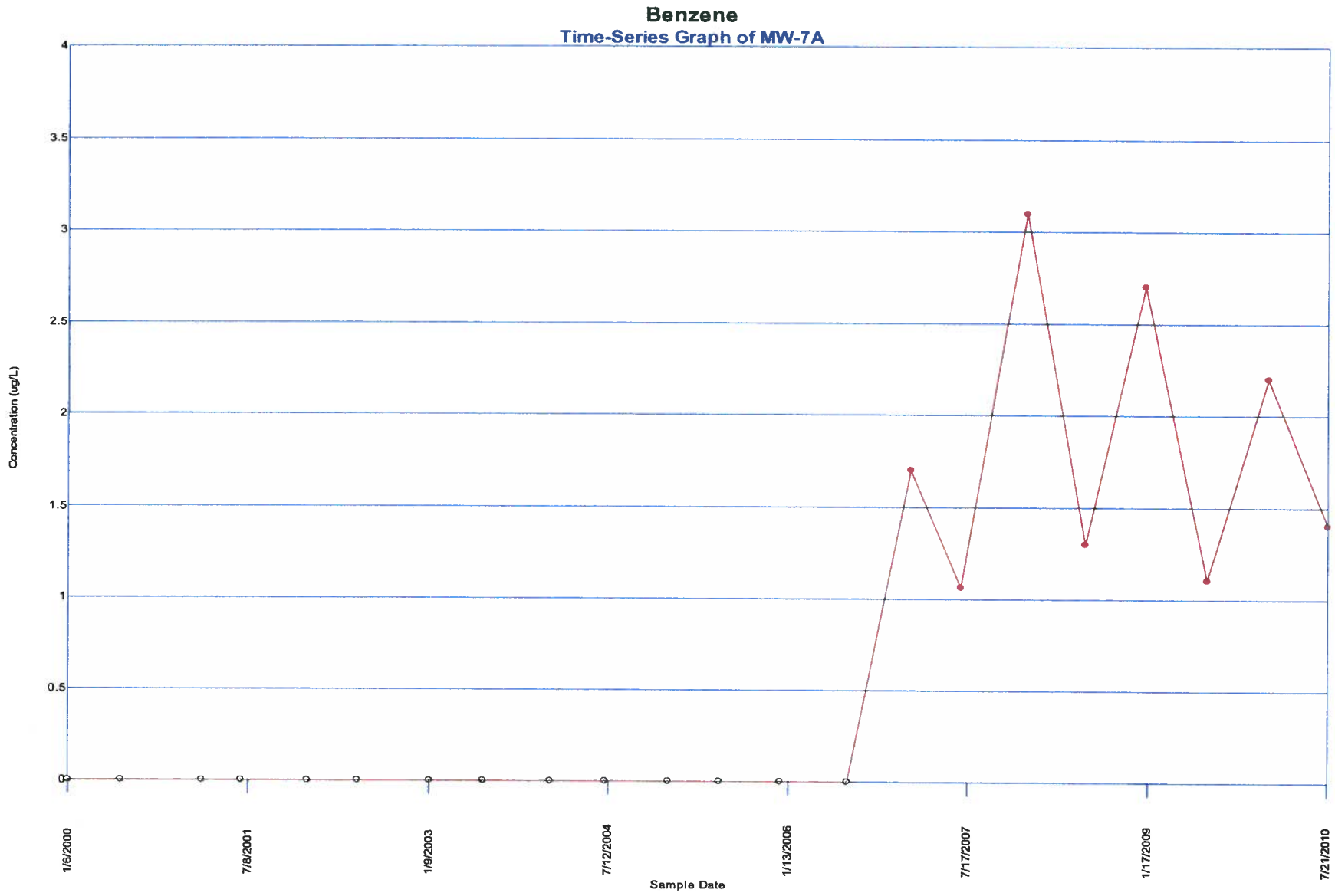
CONCLUSION:

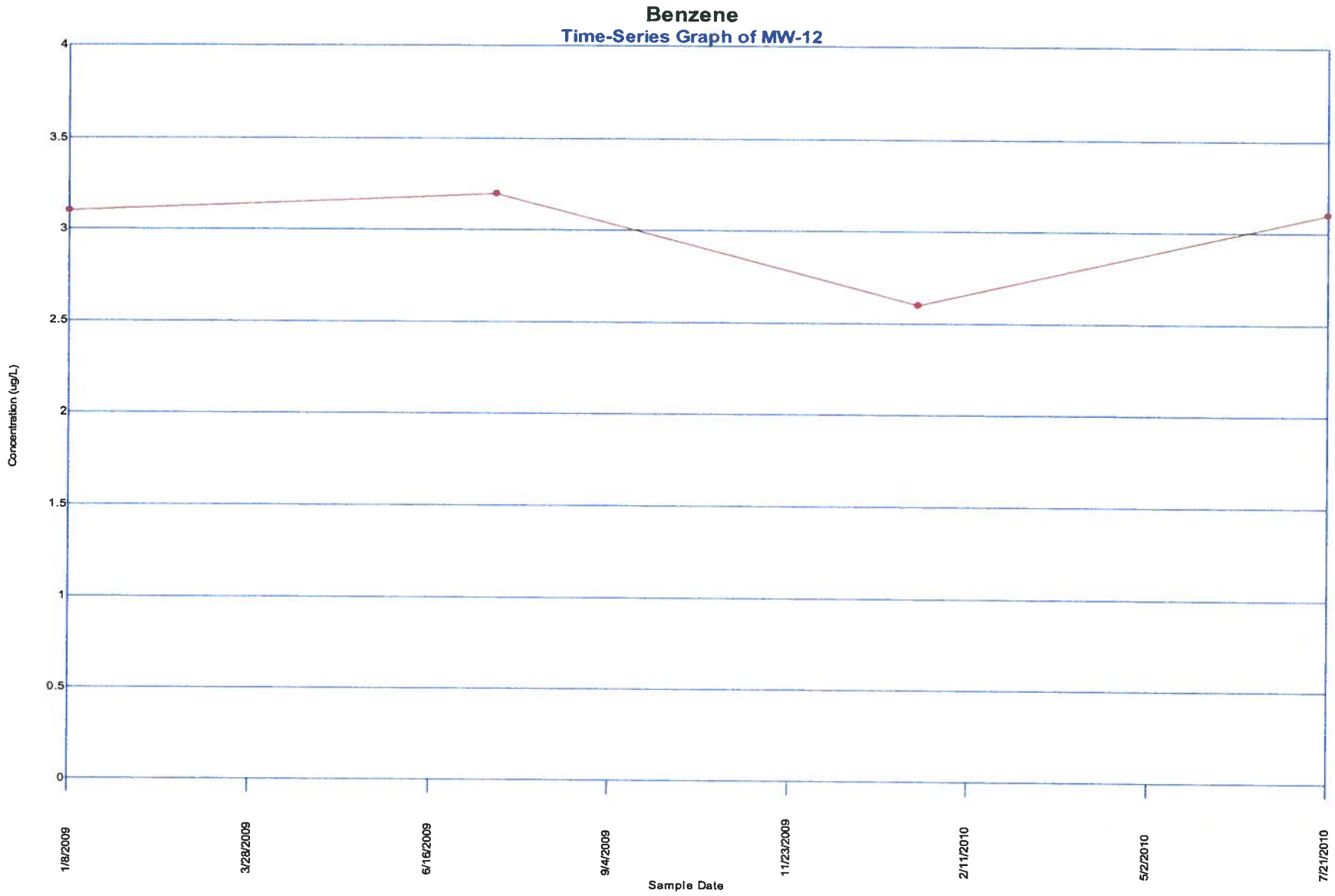
The average groundwater flow velocity, V, equals **8.37 ft/yr**.

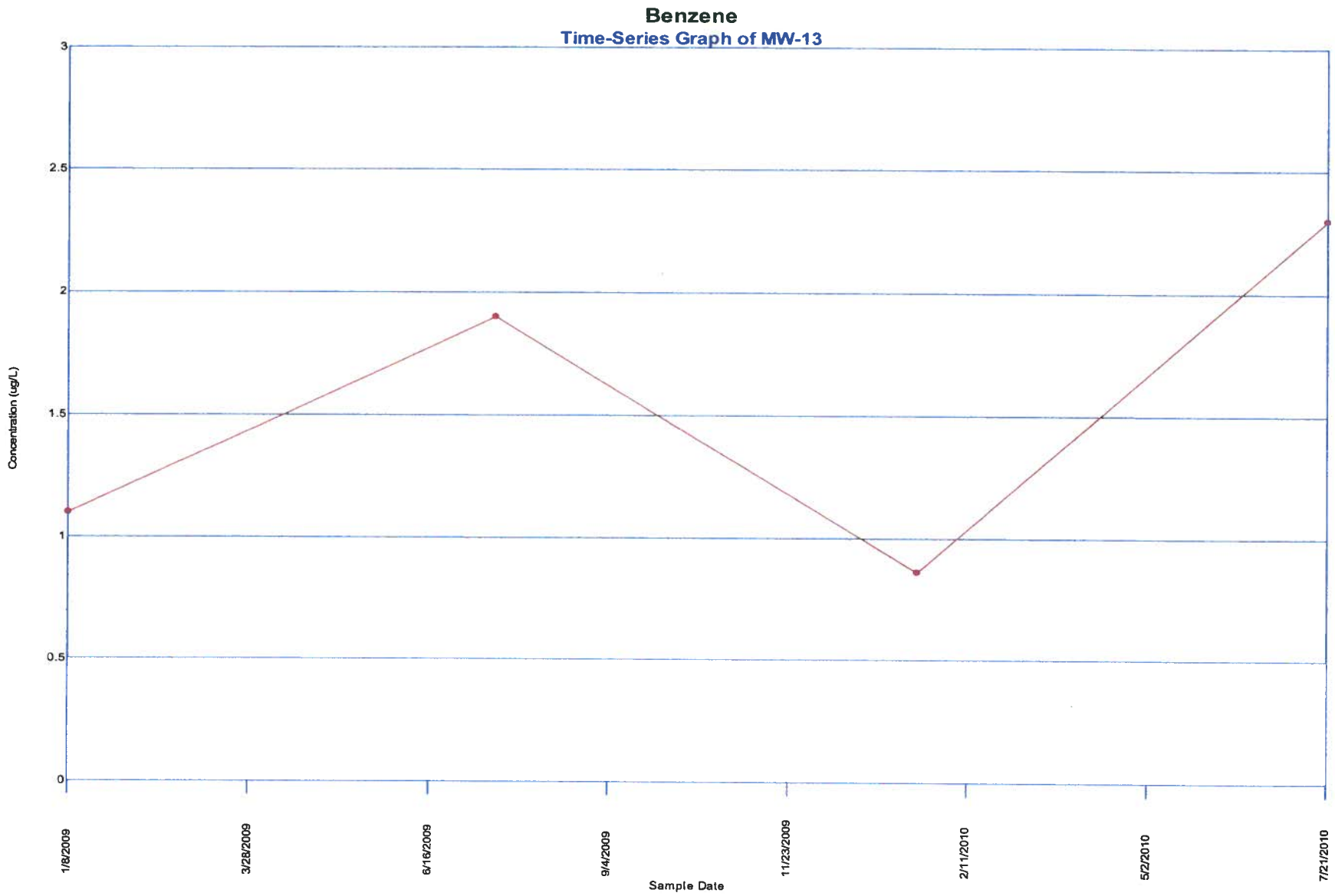
APPENDIX IV

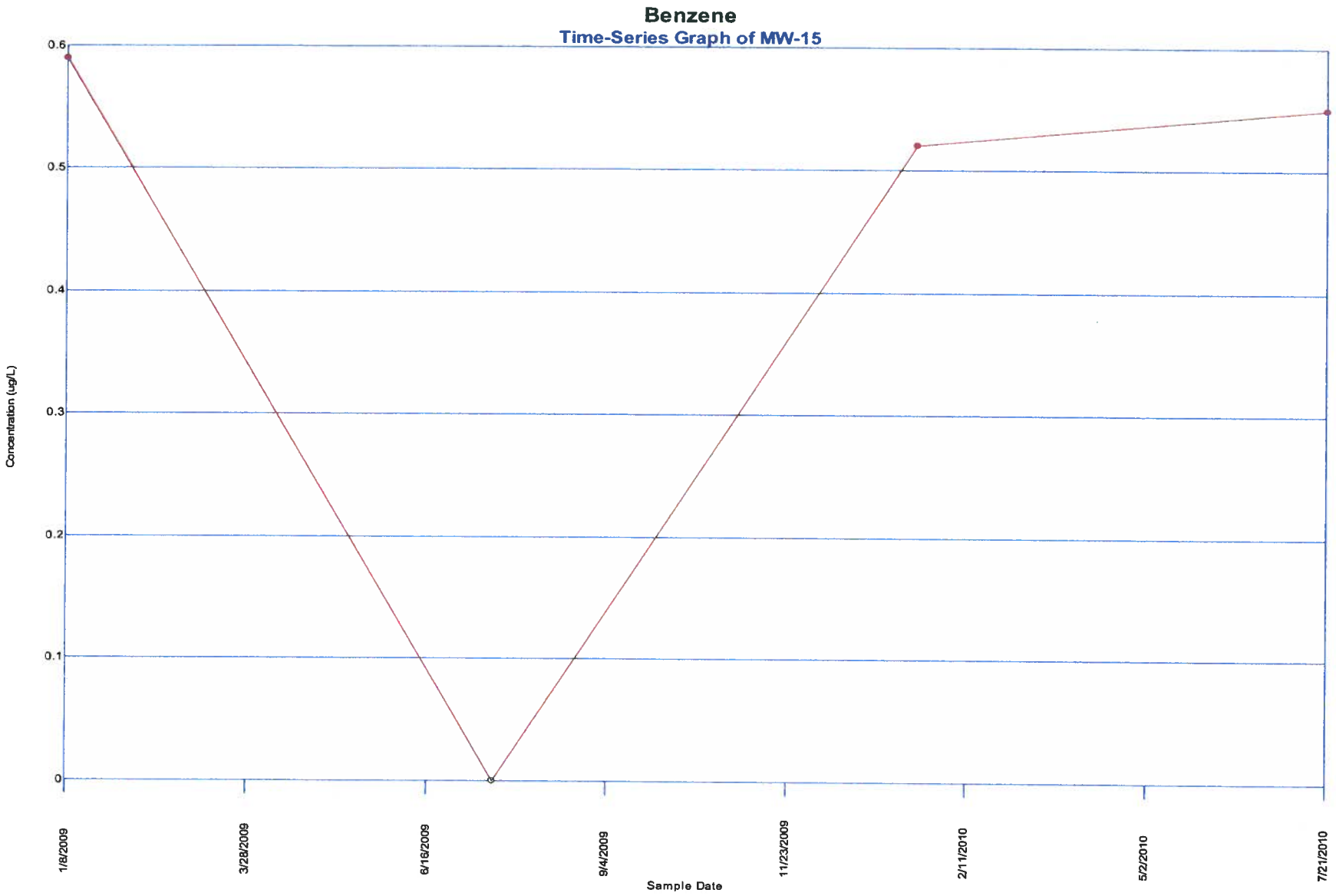
(TIME SERIES GRAPHS FOR MONITOR WELLS)

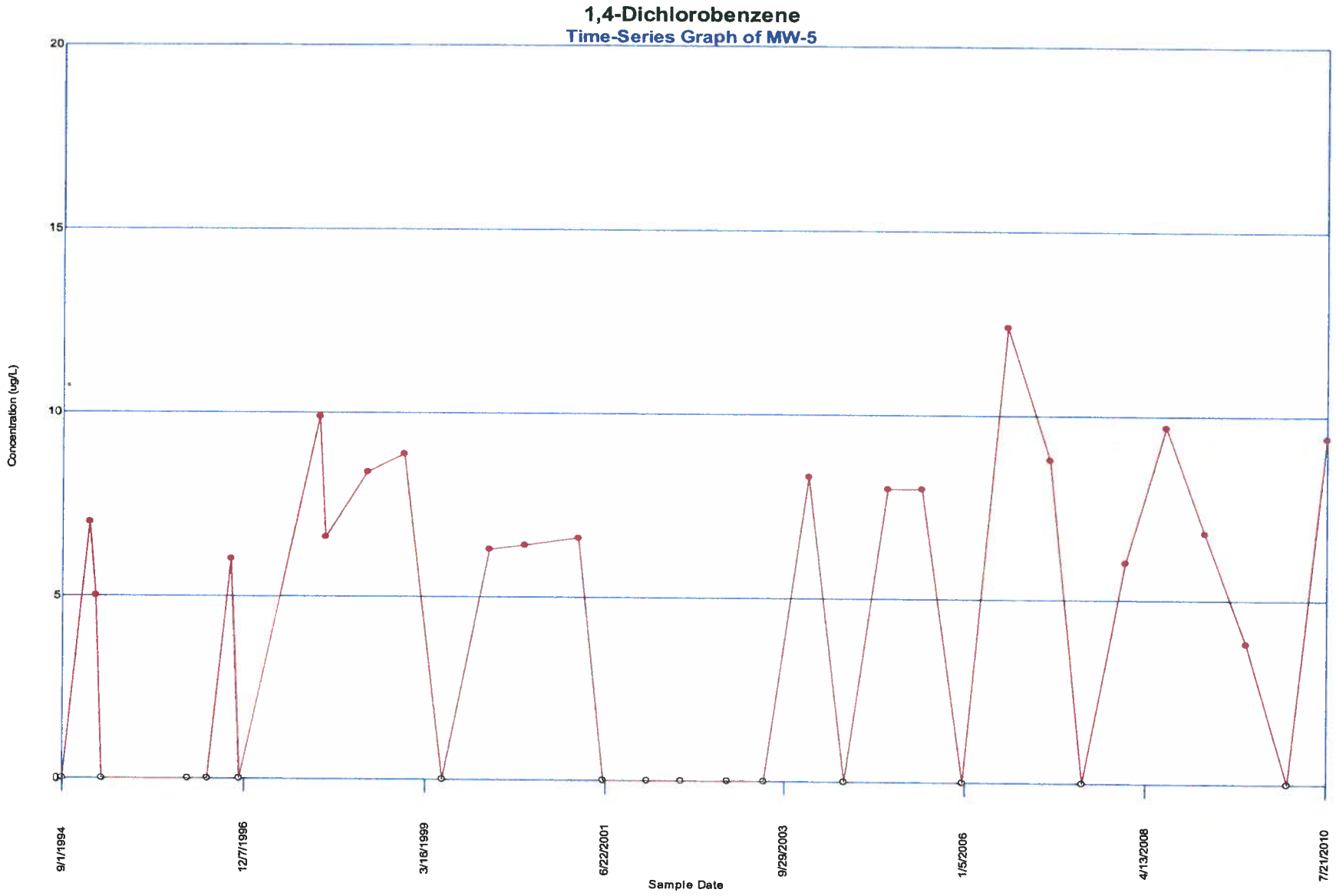

Benzene
Time-Series Graph of MW-5
Concentration (ug/L)
20
15
10
5
0
9/1/1994
12/7/1996
3/16/1999
6/22/2001
9/29/2003
1/5/2006
4/13/2008
7/21/2010
Sample Date

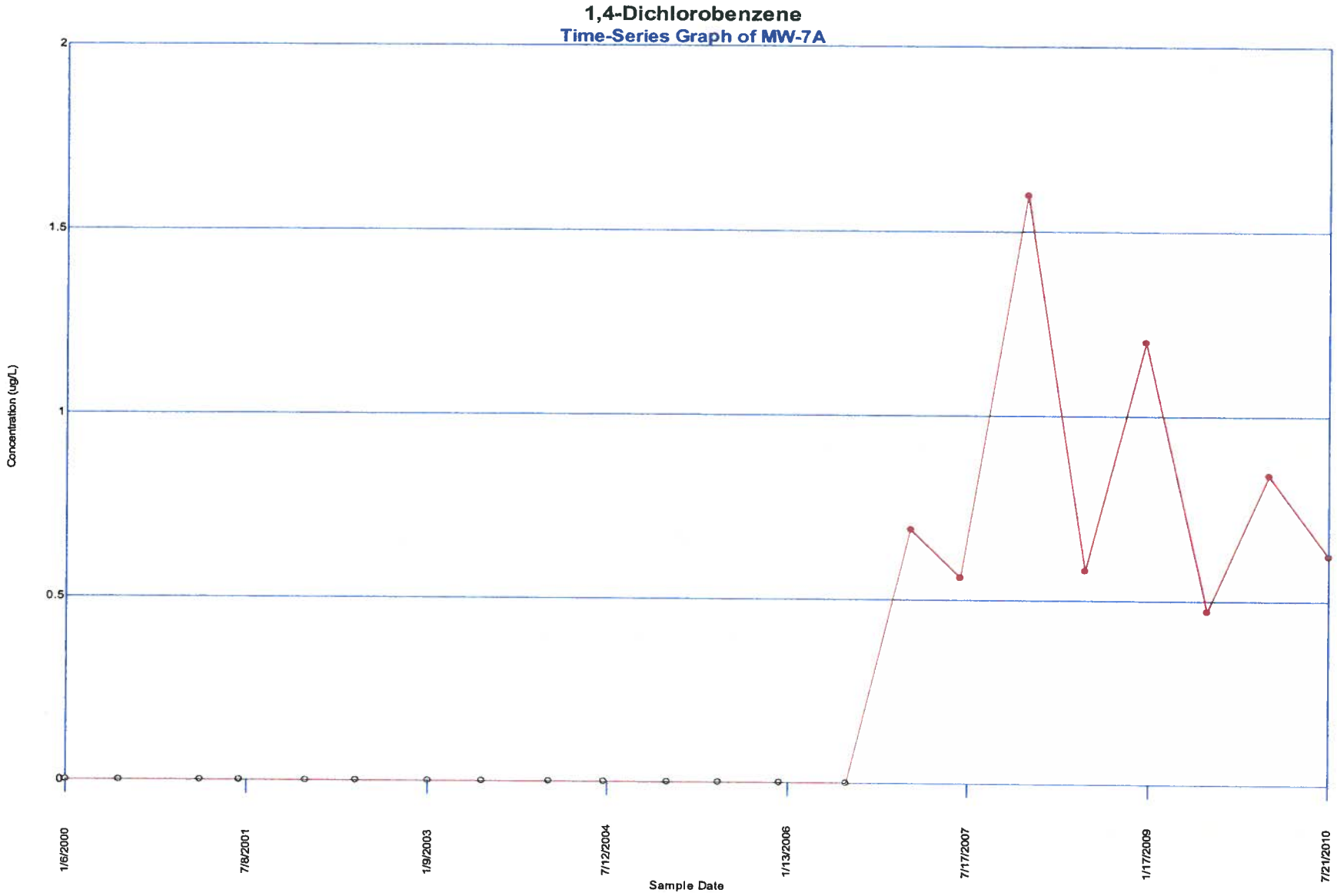

Benzene
Time-Series Graph of MW-7A
Concentration (ug/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
1/6/2000
7/8/2001
1/9/2003
7/12/2004
1/13/2006
7/17/2007
1/17/2009
7/21/2010
Sample Date

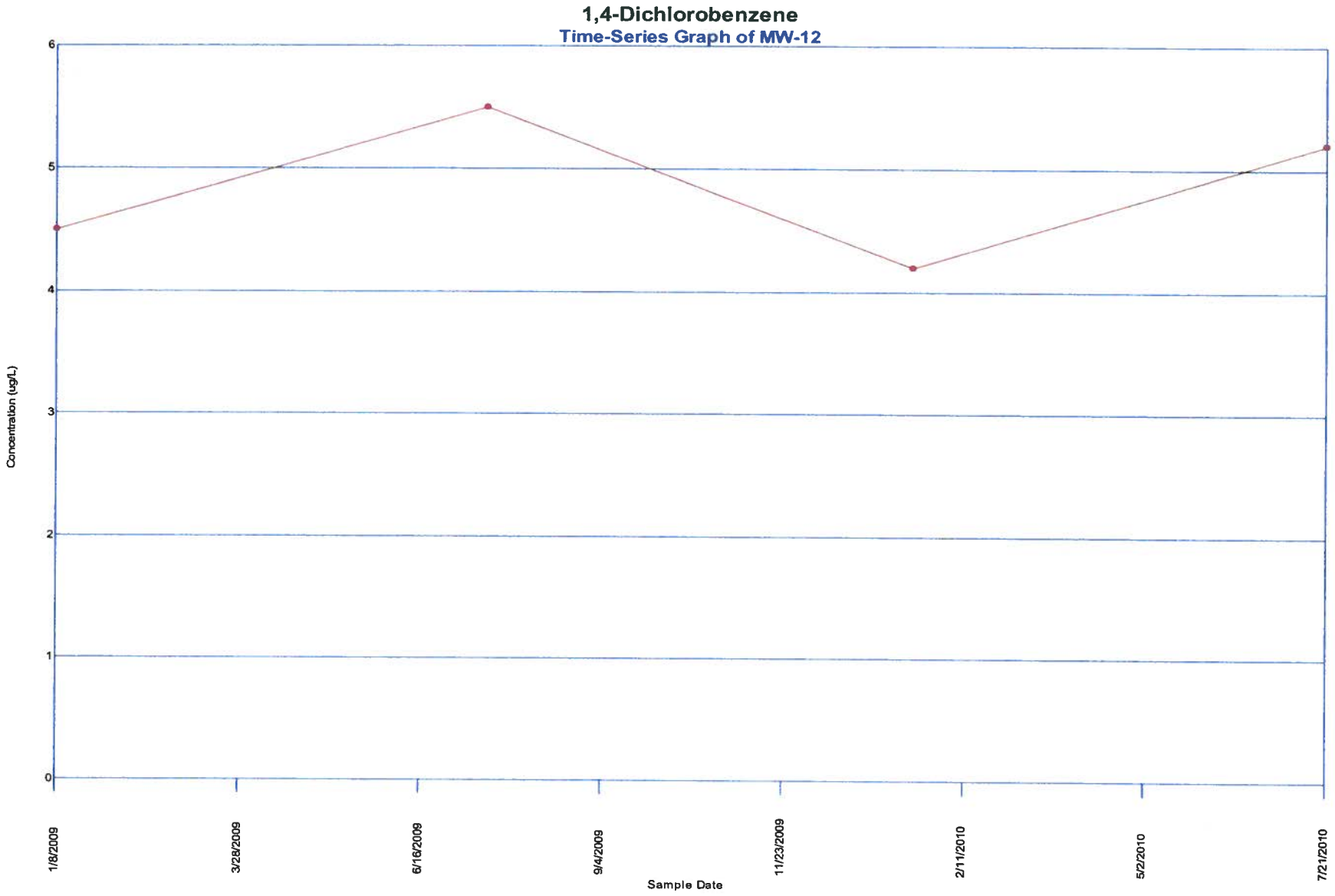

Benzene
Time-Series Graph of MW-12
Concentration (ug/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
1/8/2009
3/28/2009
6/16/2009
9/4/2009
11/23/2009
2/11/2010
5/2/2010
7/21/2010
Sample Date

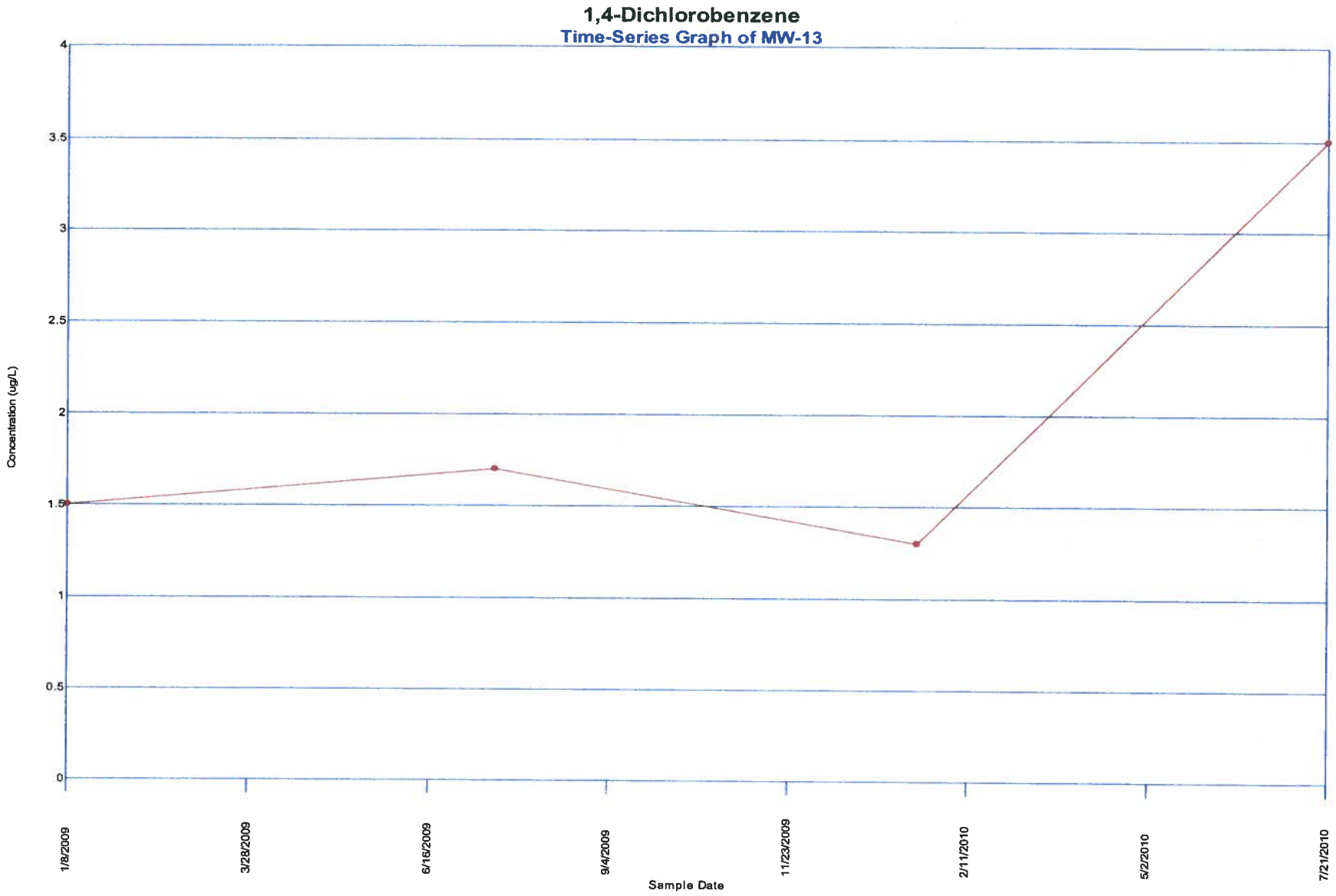

Benzene
Time-Series Graph of MW-13
Concentration (ug/L)
3
2.5
2
1.5
1
0.5
0
1/8/2009
3/28/2009
6/16/2009
9/4/2009
11/23/2009
2/11/2010
5/2/2010
7/21/2010
Sample Date

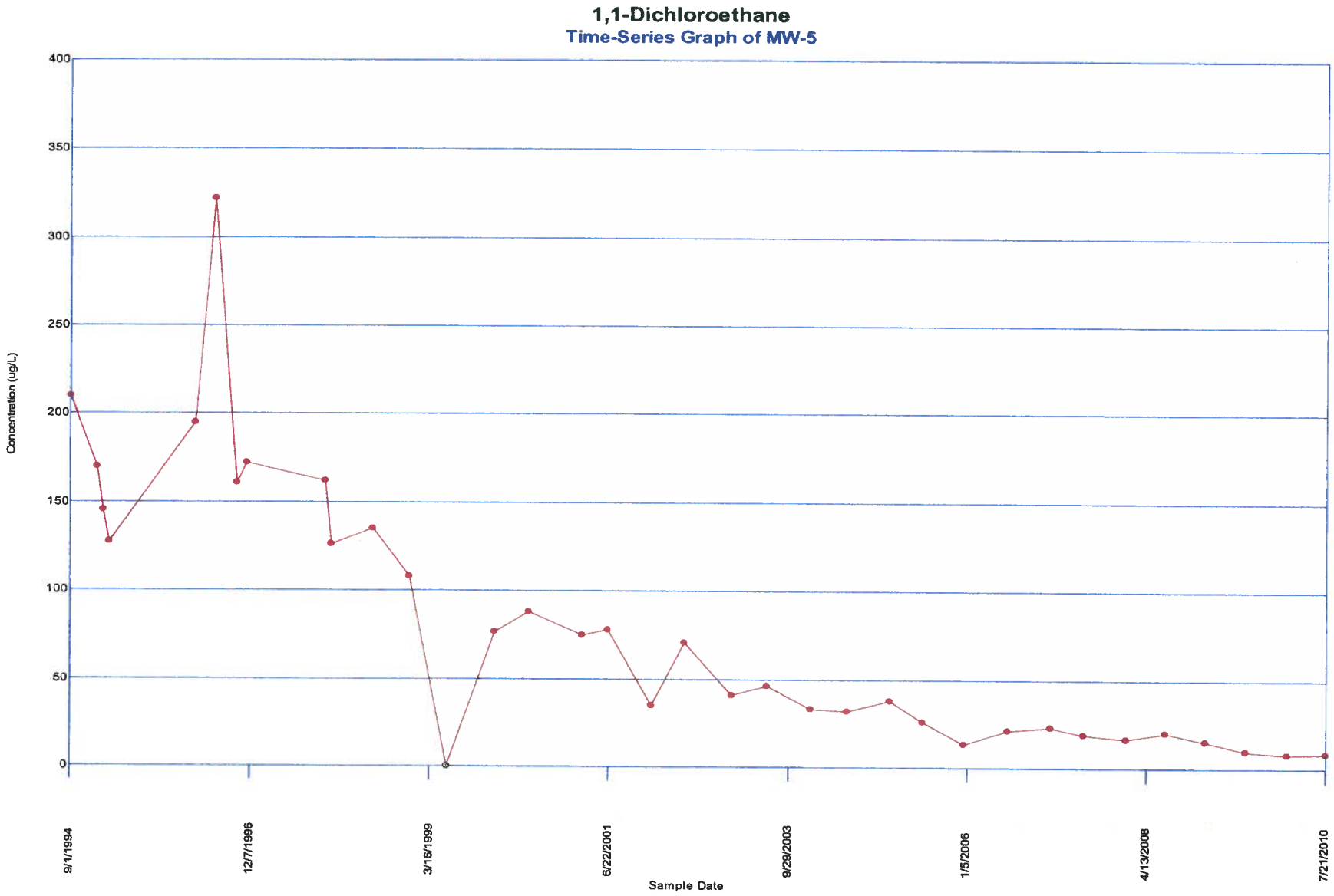

Benzene
Time-Series Graph of MW-15
Concentration (ug/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
1/8/2009
3/28/2009
6/16/2009
9/4/2009
11/23/2009
2/11/2010
5/2/2010
7/21/2010
Sample Date

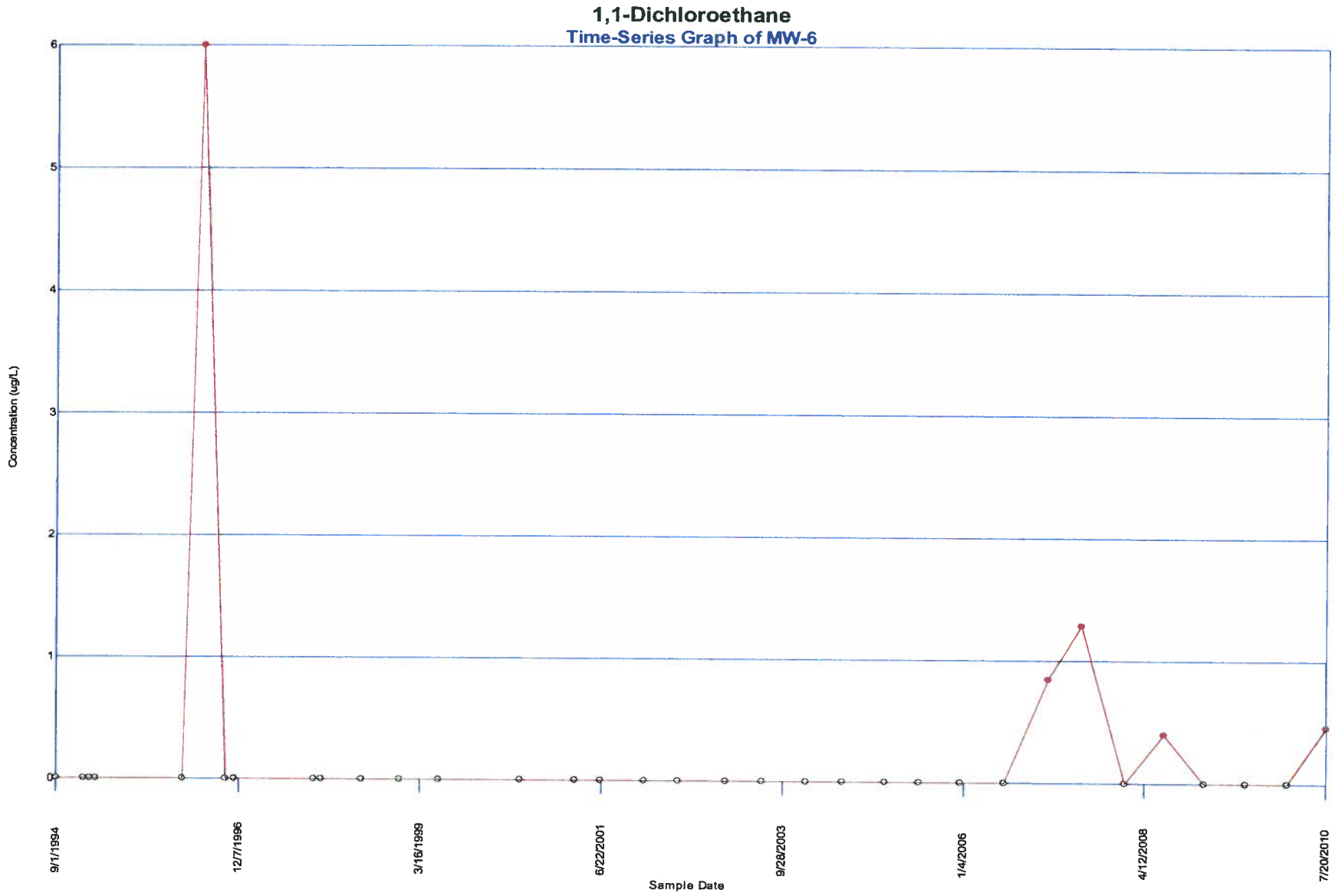

1,4-Dichlorobenzene
Time-Series Graph of MW-5
Concentration (ug/L)
20
15
10
5
0
9/1/1994
12/7/1996
3/16/1999
6/22/2001
9/29/2003
1/5/2006
4/13/2008
7/21/2010
Sample Date

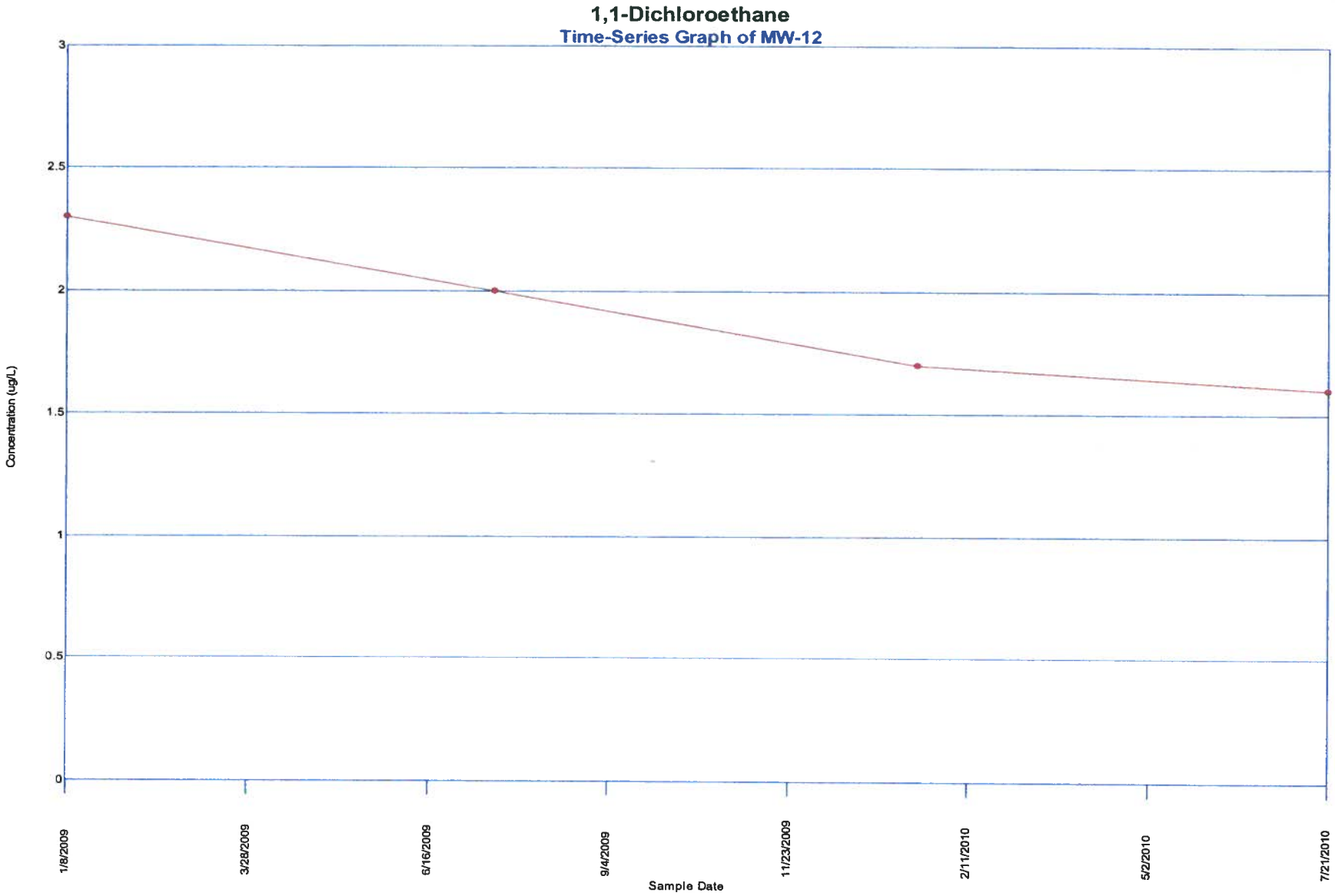

1,4-Dichlorobenzene
Time-Series Graph of MW-7A
Concentration (ug/L)
2
1.5
1
0.5
0
1/6/2000
7/8/2001
1/9/2003
7/12/2004
1/13/2006
7/17/2007
1/17/2009
7/21/2010
Sample Date

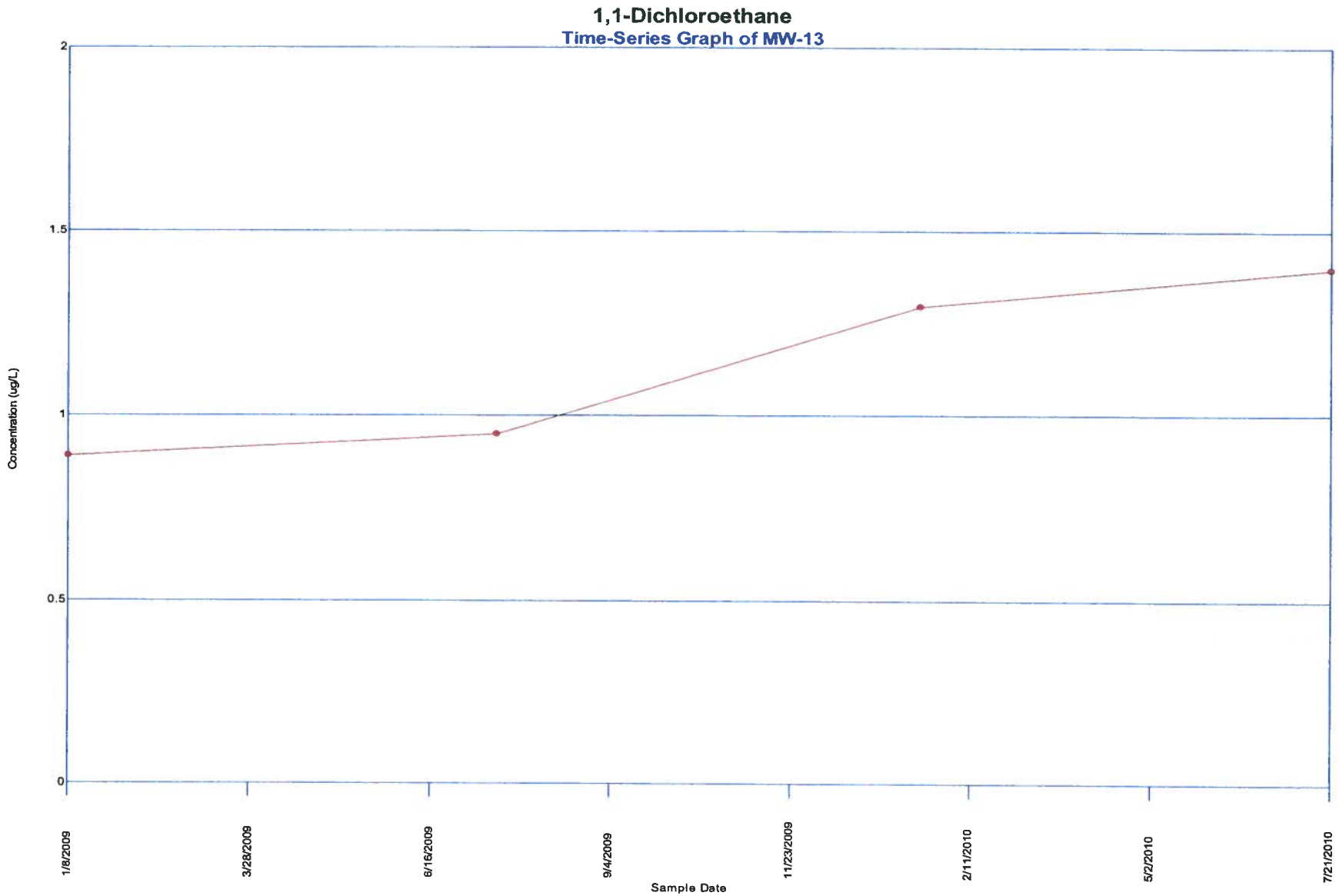

1,4-Dichlorobenzene
Time-Series Graph of MW-12
Concentration (ug/L)
0
1
2
3
4
5
6
1/8/2009
3/28/2009
6/16/2009
9/4/2009
11/23/2009
2/11/2010
5/2/2010
7/21/2010
Sample Date

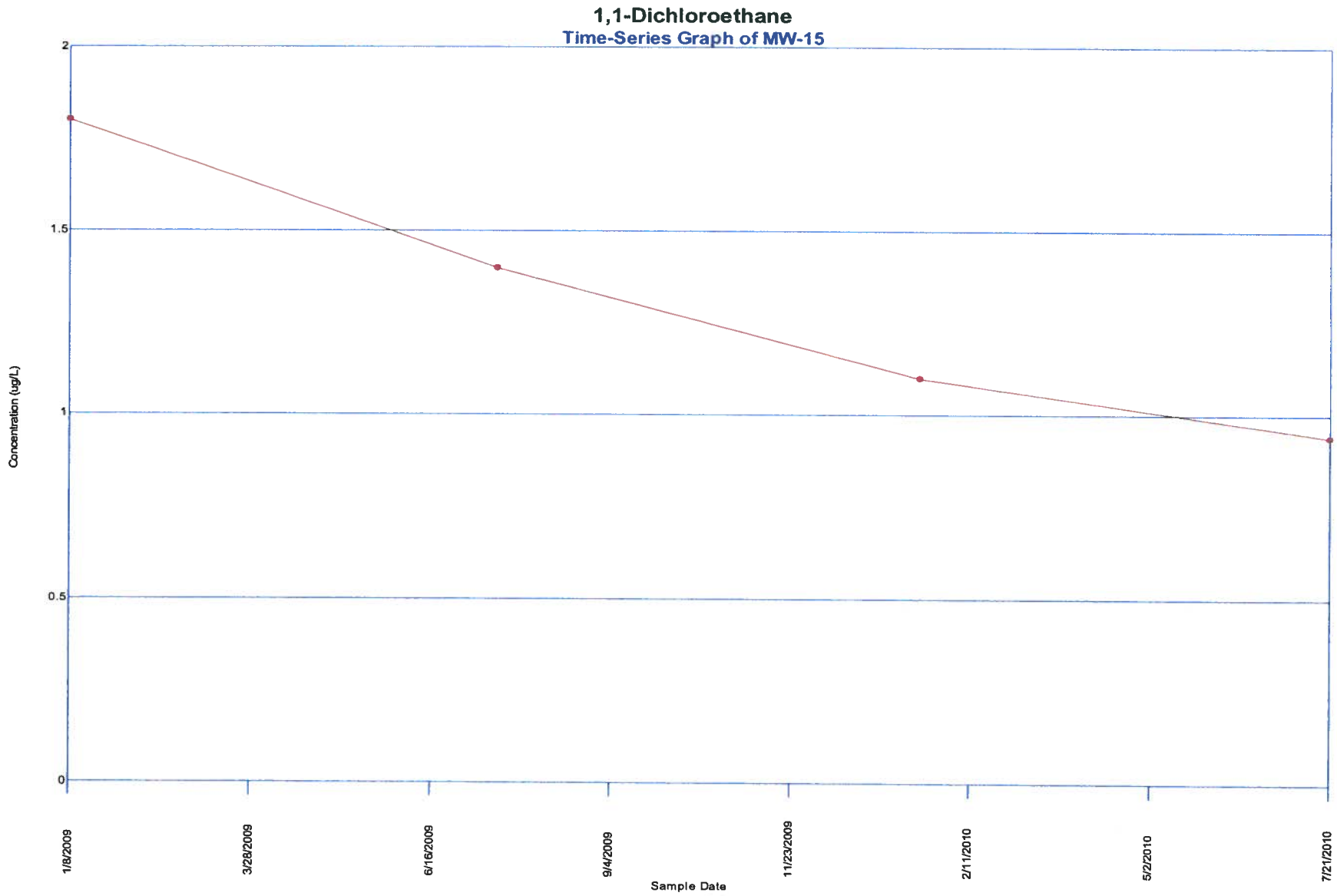

1,4-Dichlorobenzene
Time-Series Graph of MW-13
Concentration (ug/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
1/8/2009
3/28/2009
6/16/2009
9/4/2009
11/23/2009
2/11/2010
5/2/2010
7/21/2010
Sample Date

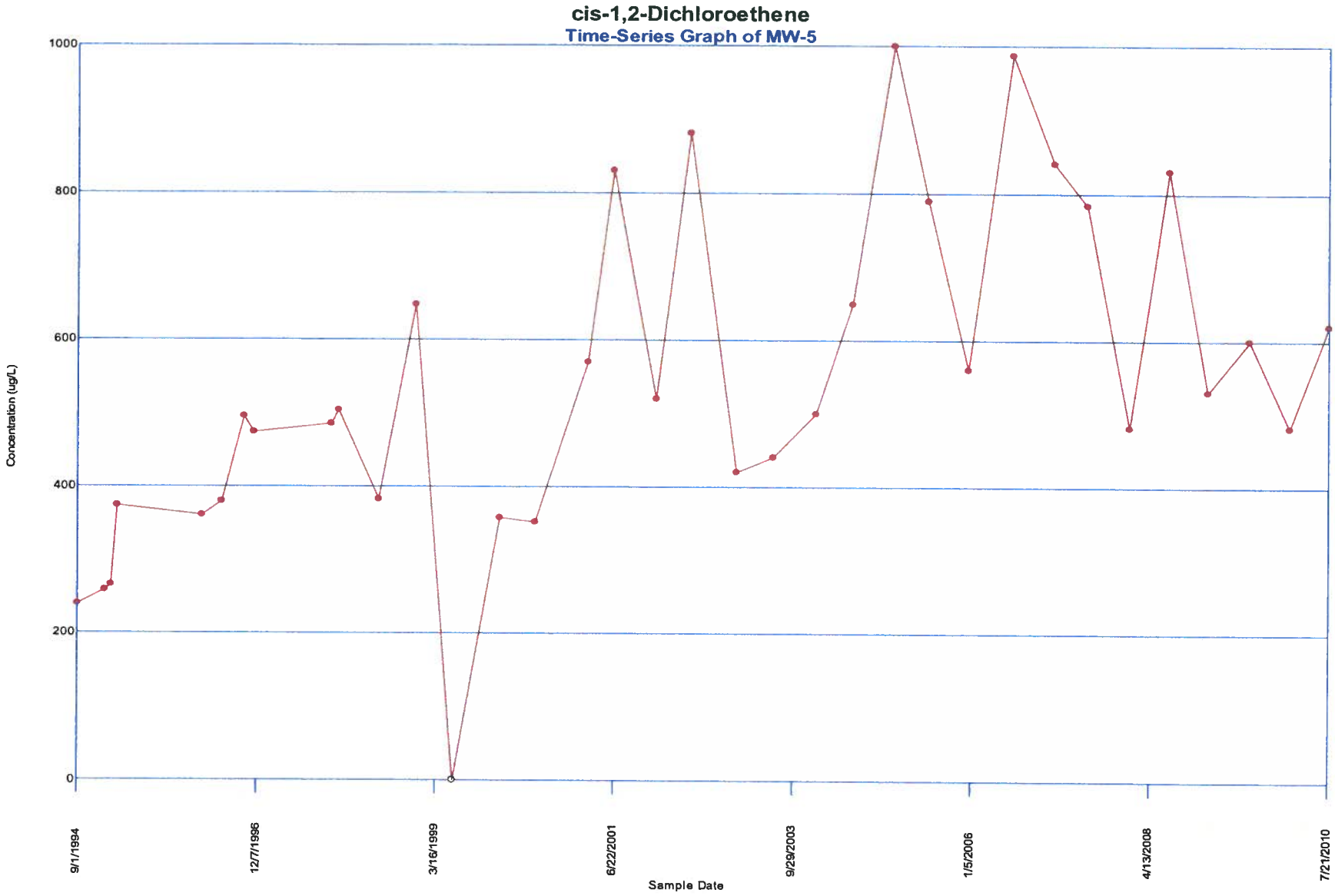

1,1-Dichloroethane
Time-Series Graph of MW-5
Concentration (ug/L)
400
350
300
250
200
150
100
50
0
9/1/1994
12/7/1996
3/16/1999
6/22/2001
9/29/2003
1/5/2006
4/13/2008
7/21/2010
Sample Date

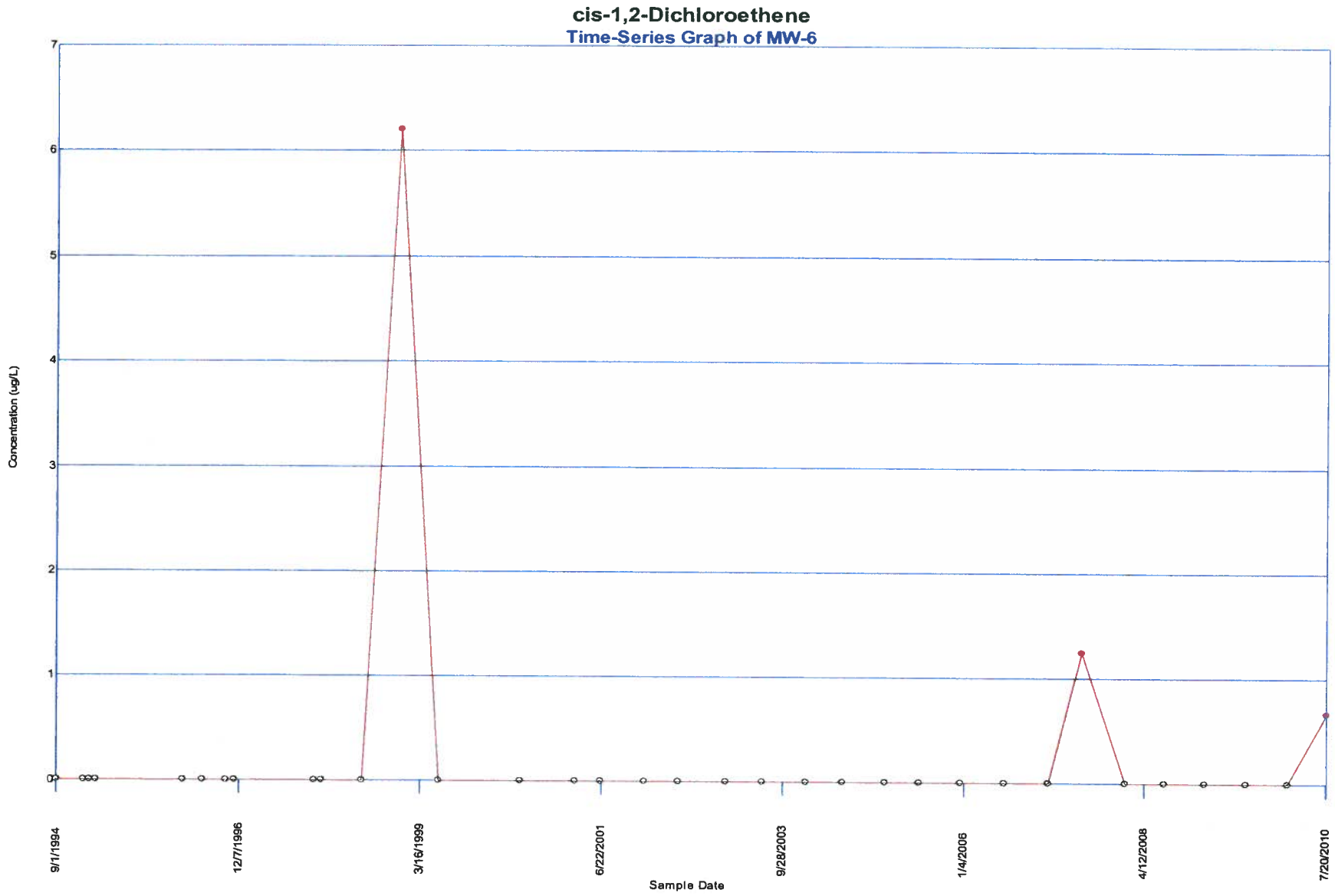

1,1-Dichloroethane
Time-Series Graph of MW-6
Concentration (ug/L)
6
5
4
3
2
1
0
9/1/1994
12/7/1996
3/16/1999
6/22/2001
9/28/2003
1/4/2006
4/12/2008
7/20/2010
Sample Date

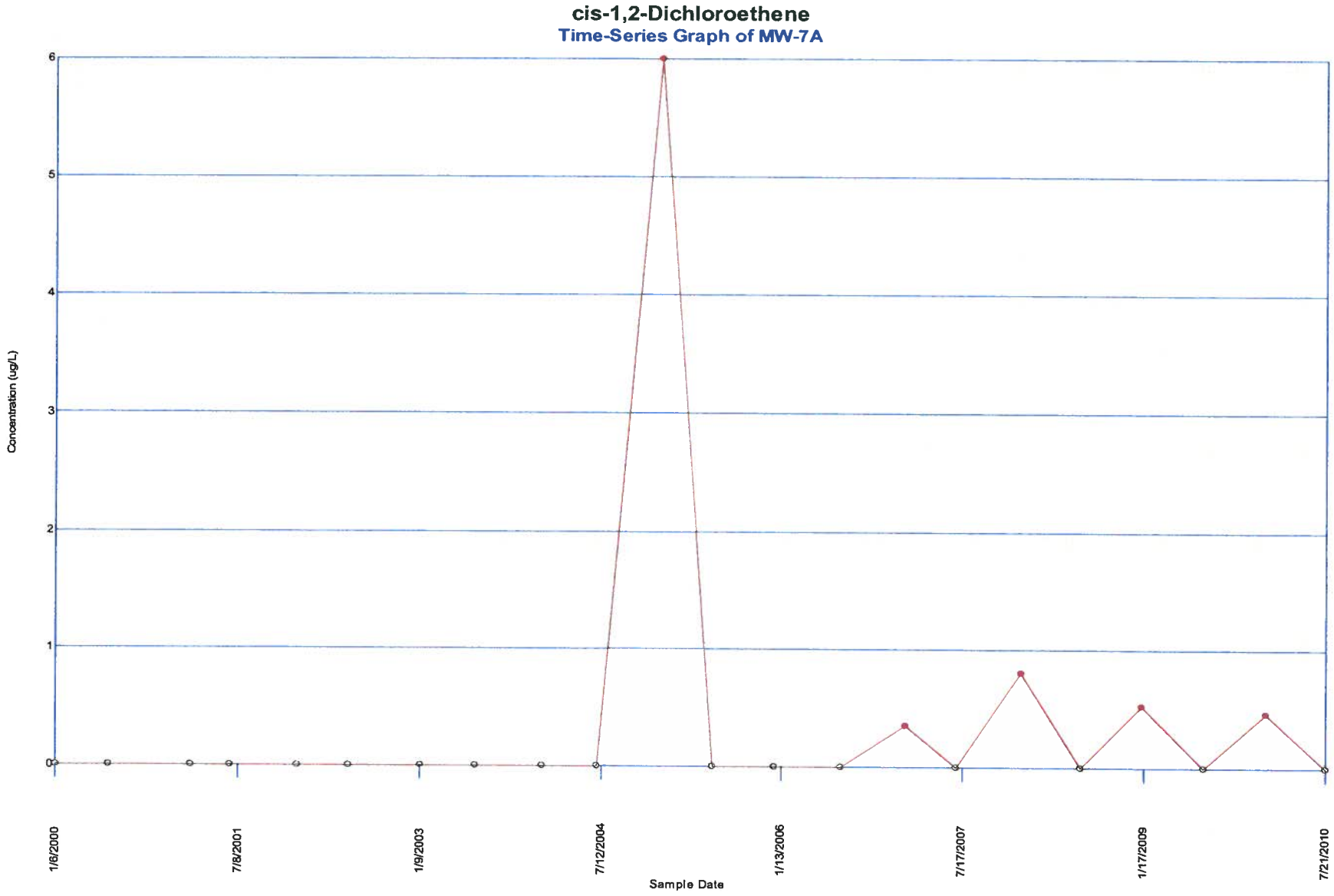

1,1-Dichloroethane
Time-Series Graph of MW-12
Concentration (ug/L)
3
2.5
2
1.5
1
0.5
0
1/8/2009
3/28/2009
6/16/2009
9/4/2009
11/23/2009
2/11/2010
5/2/2010
7/21/2010
Sample Date

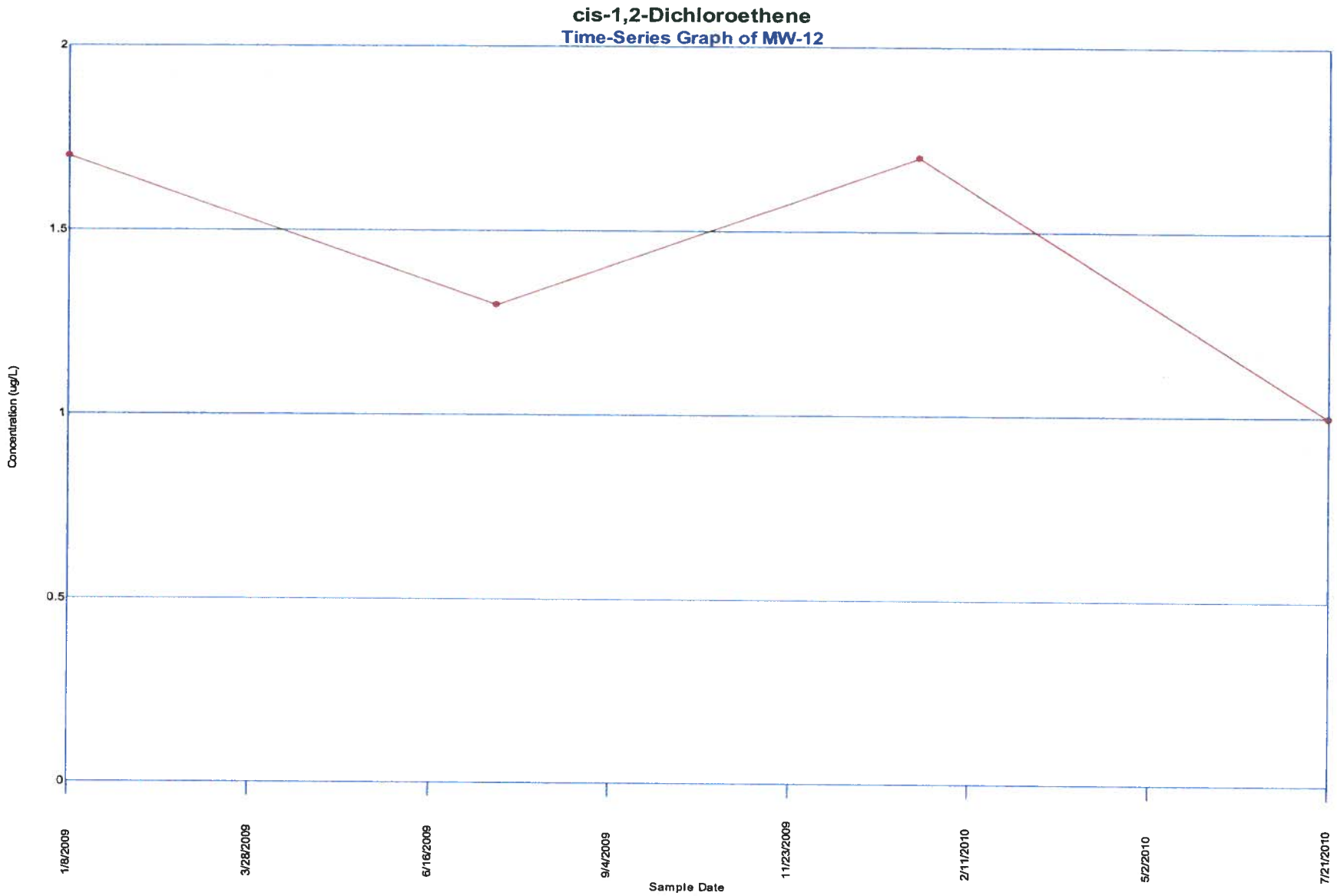

1,1-Dichloroethane
Time-Series Graph of MW-13
Concentration (ug/L)
2
1.5
1
0.5
0
1/8/2009
3/28/2009
6/16/2009
9/4/2009
11/23/2009
2/11/2010
5/2/2010
7/21/2010
Sample Date

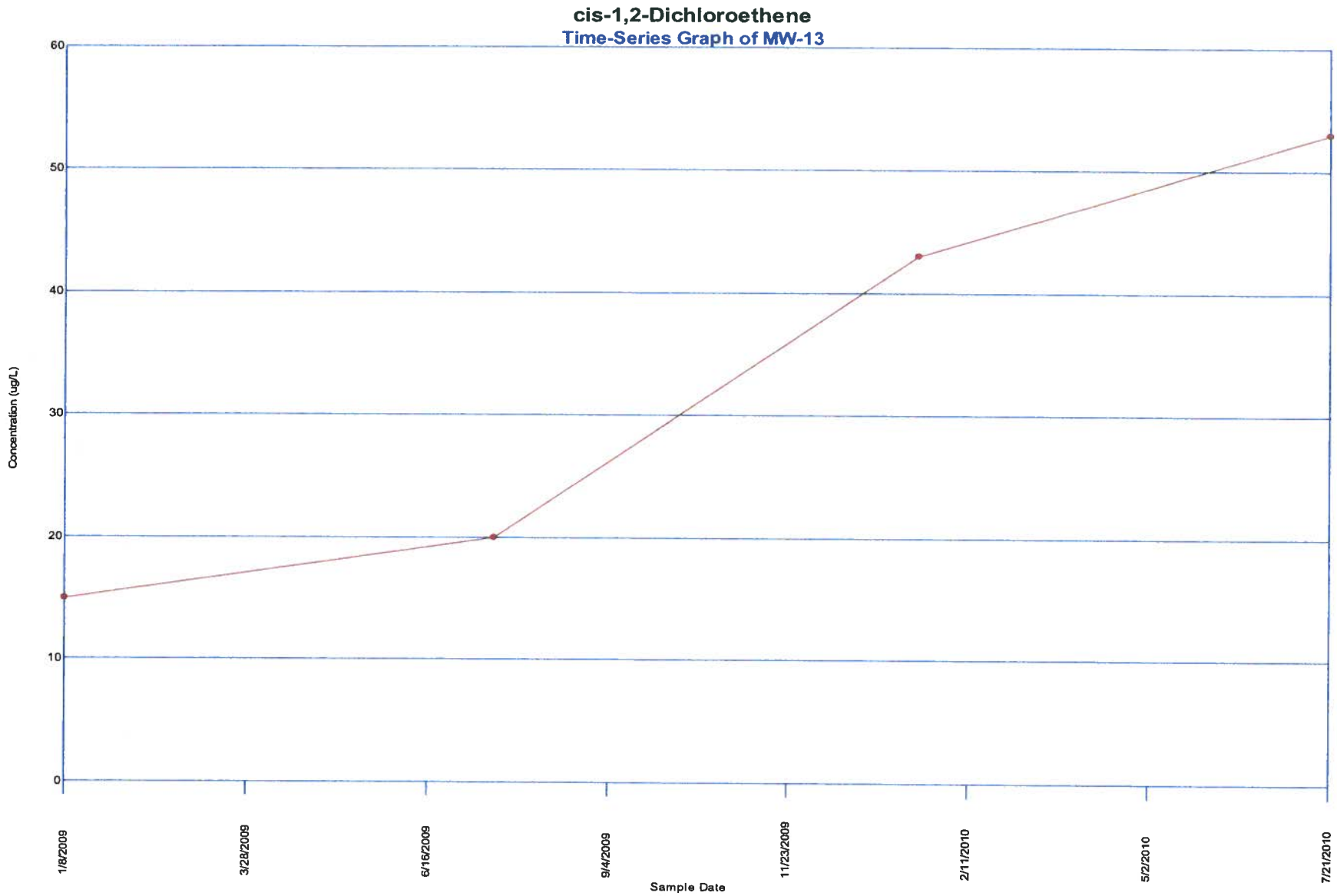

1,1-Dichloroethane
Time-Series Graph of MW-15
Concentration (ug/L)
2
1.5
1
0.5
0
1/8/2009
3/28/2009
6/16/2009
9/4/2009
11/23/2009
2/11/2010
5/2/2010
7/21/2010
Sample Date

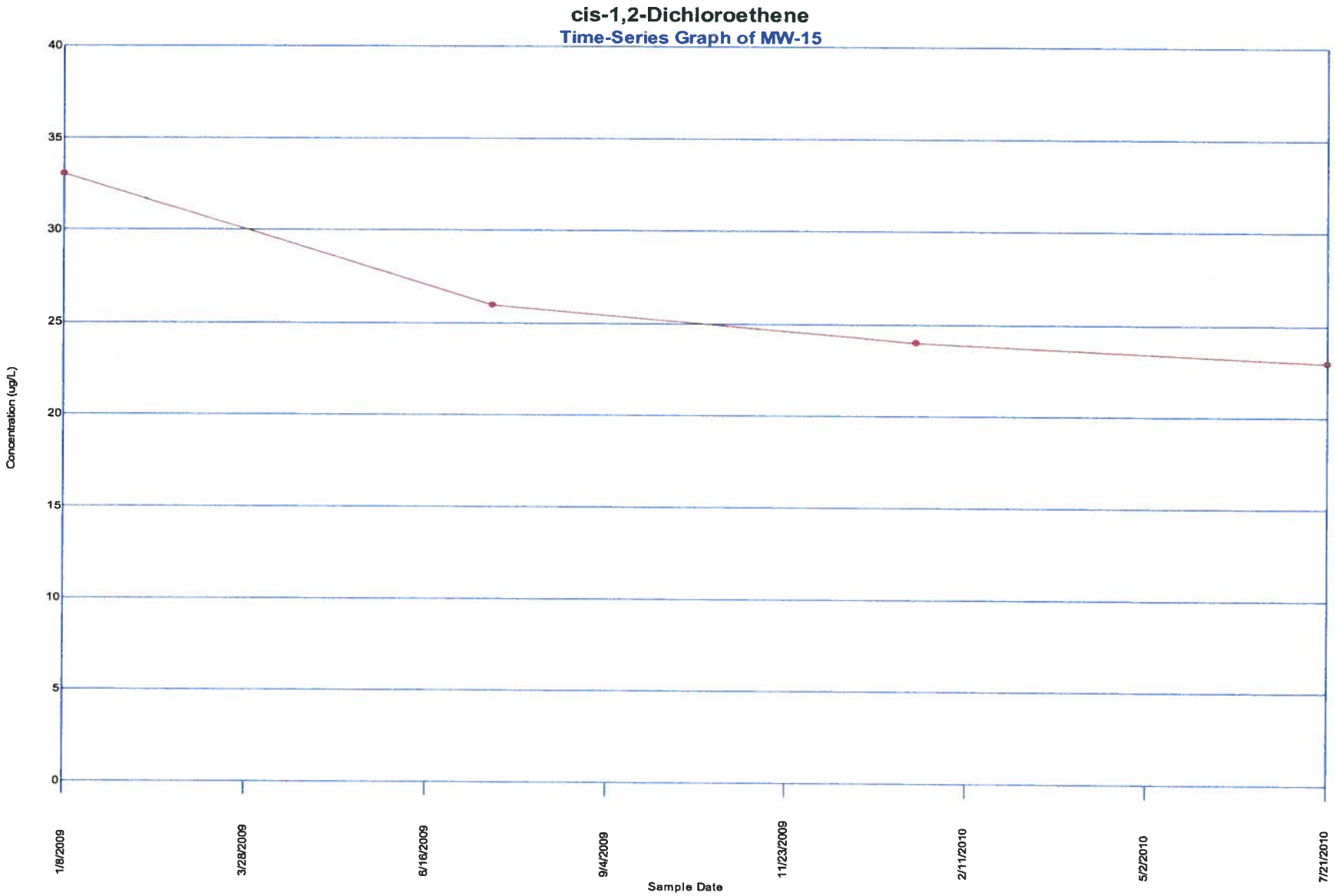

cis-1,2-Dichloroethene
Time-Series Graph of MW-5
Concentration (ug/L)
1000
800
600
400
200
0
9/1/1994
12/7/1996
3/16/1999
6/22/2001
9/29/2003
1/5/2006
4/13/2008
7/21/2010
Sample Date

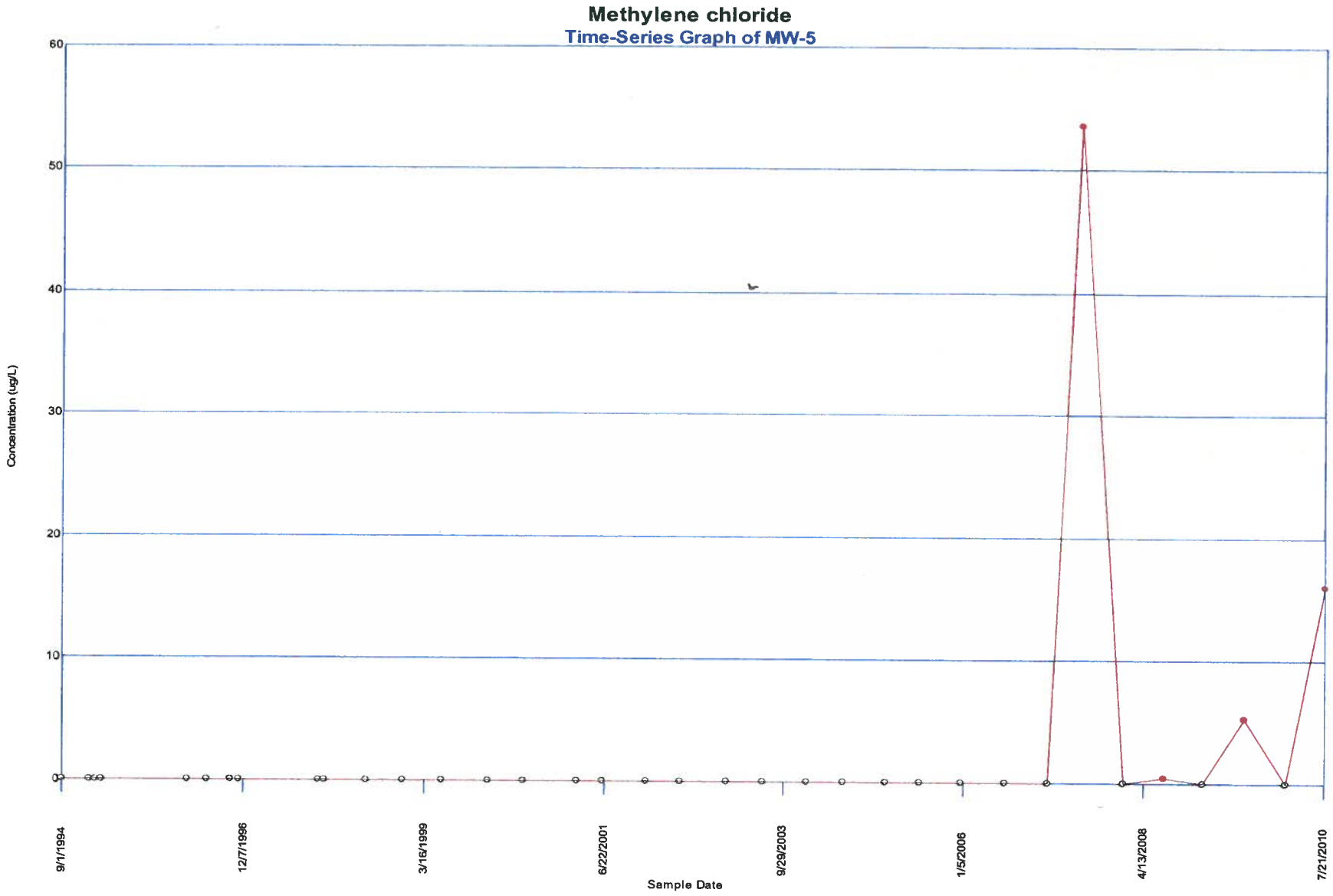

cis-1,2-Dichloroethene
Time-Series Graph of MW-6
Concentration (ug/L)
7
6
5
4
3
2
1
0
9/1/1994
12/7/1996
3/16/1999
6/22/2001
9/28/2003
1/4/2006
4/12/2008
7/20/2010
Sample Date

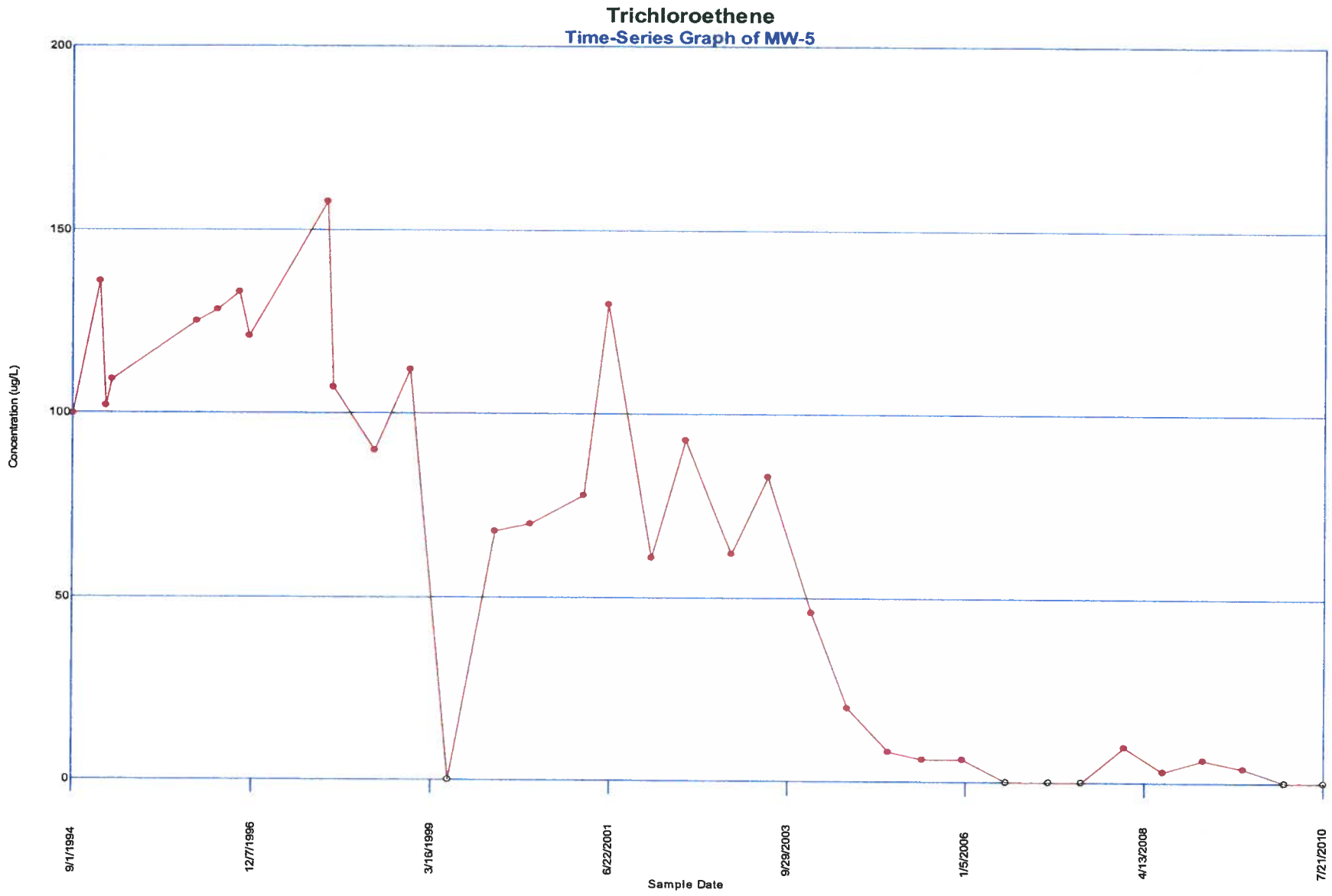

cis-1,2-Dichloroethene
Time-Series Graph of MW-7A
Concentration (ug/L)
0
1
2
3
4
5
6
1/6/2000
7/8/2001
1/9/2003
7/12/2004
1/13/2006
7/17/2007
1/17/2009
7/21/2010
Sample Date

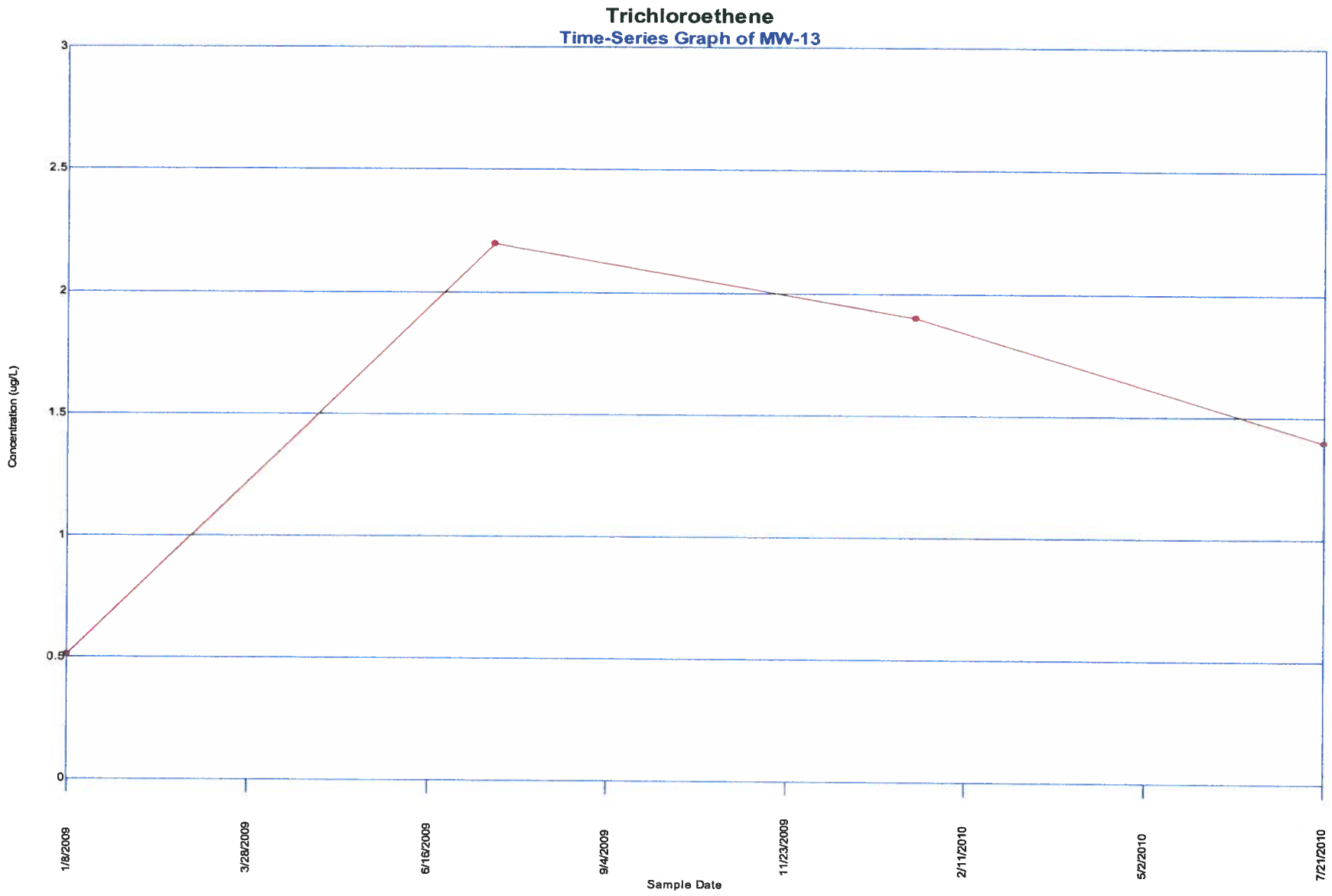

cis-1,2-Dichloroethene
Time-Series Graph of MW-12
Concentration (ug/L)
2
1.5
1
0.5
0
1/8/2009
3/28/2009
6/16/2009
9/4/2009
11/23/2009
2/11/2010
5/2/2010
7/21/2010
Sample Date

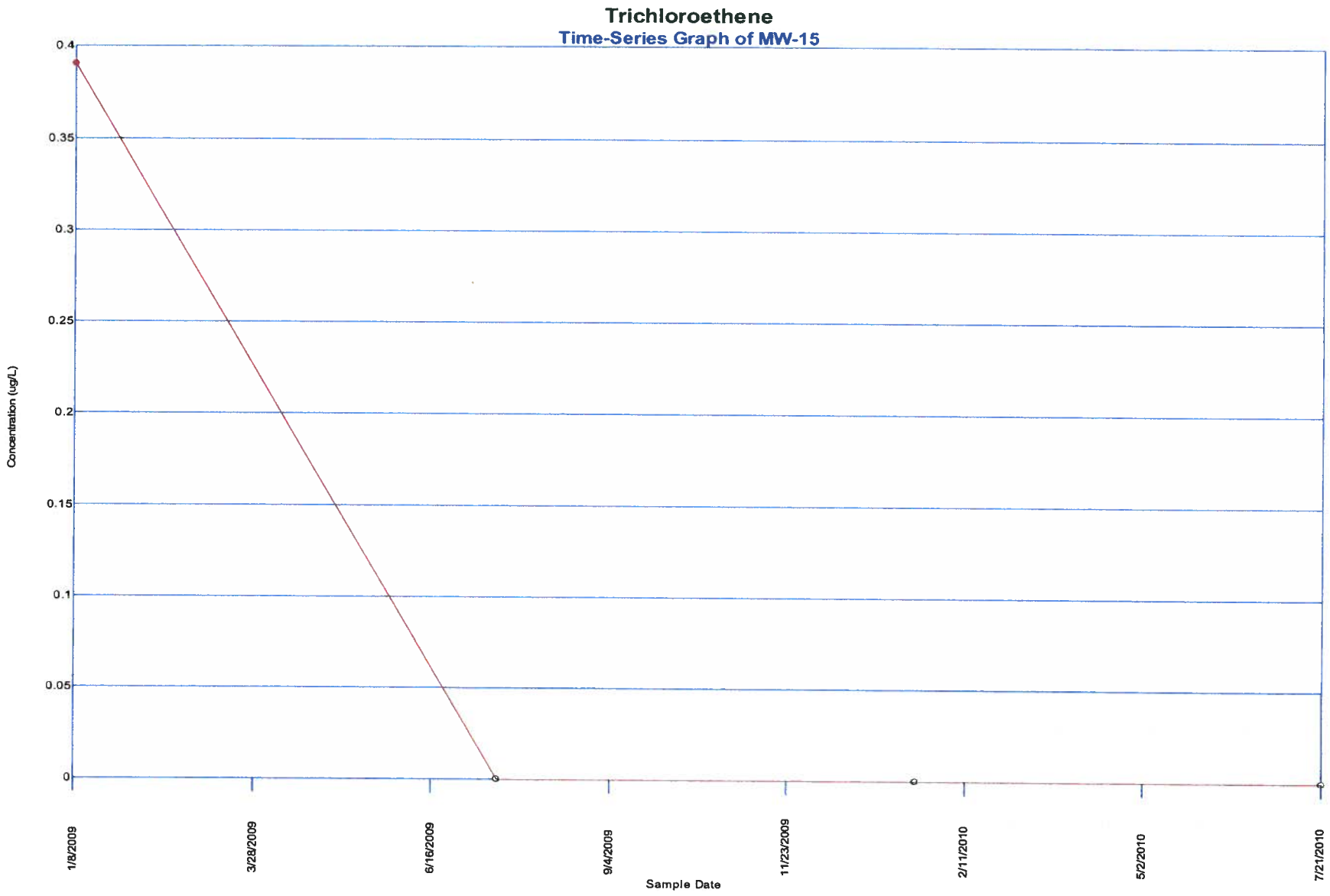

cis-1,2-Dichloroethene
Time-Series Graph of MW-13
Concentration (ug/L)
60
50
40
30
20
10
0
1/8/2009
3/28/2009
6/16/2009
9/4/2009
11/23/2009
2/11/2010
5/2/2010
7/21/2010
Sample Date

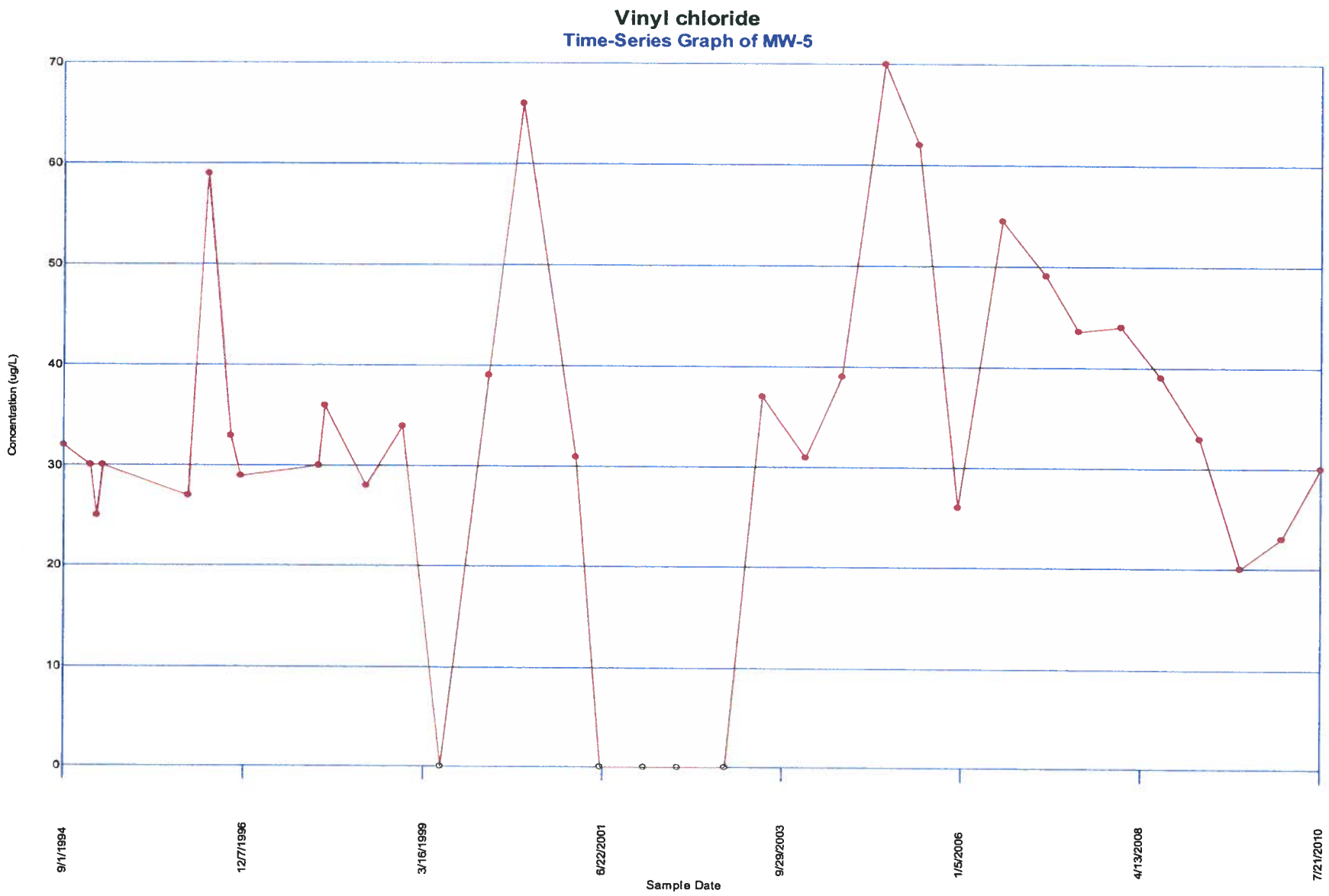

cis-1,2-Dichloroethene
Time-Series Graph of MW-15
Concentration (ug/L)
40
35
30
25
20
15
10
5
0
1/8/2009
3/28/2009
6/16/2009
9/4/2009
11/23/2009
2/11/2010
5/2/2010
7/21/2010
Sample Date

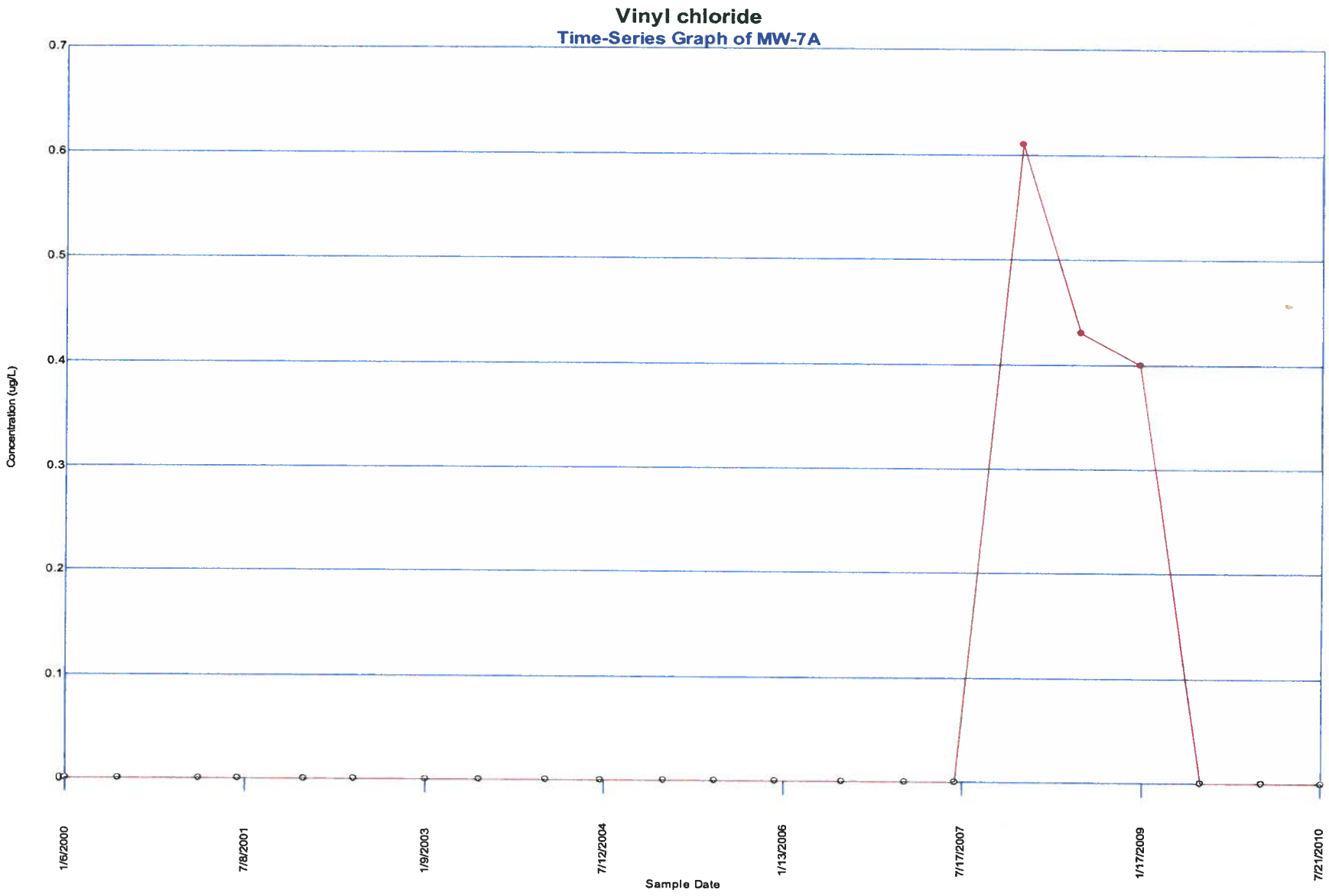

Methylene chloride
Time-Series Graph of MW-5
Concentration (ug/L)
60
50
40
30
20
10
0
9/1/1994
12/7/1996
3/16/1999
6/22/2001
9/29/2003
1/5/2006
4/13/2008
7/21/2010
Sample Date

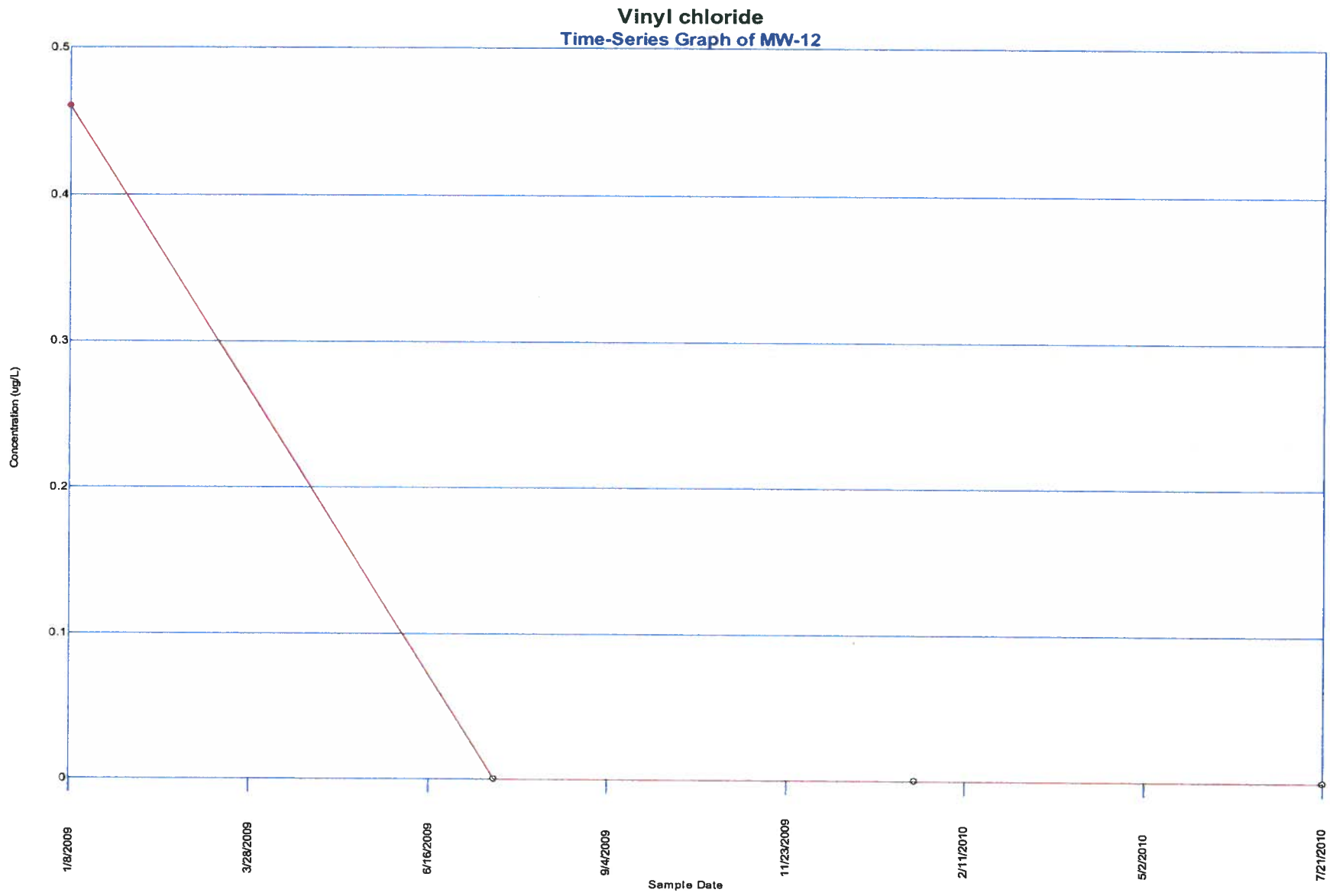

Trichloroethene
Time-Series Graph of MW-5
Concentration (ug/L)
200
150
100
50
0
9/1/1994
12/7/1996
3/16/1999
6/22/2001
9/29/2003
1/5/2006
4/13/2008
7/21/2010
Sample Date

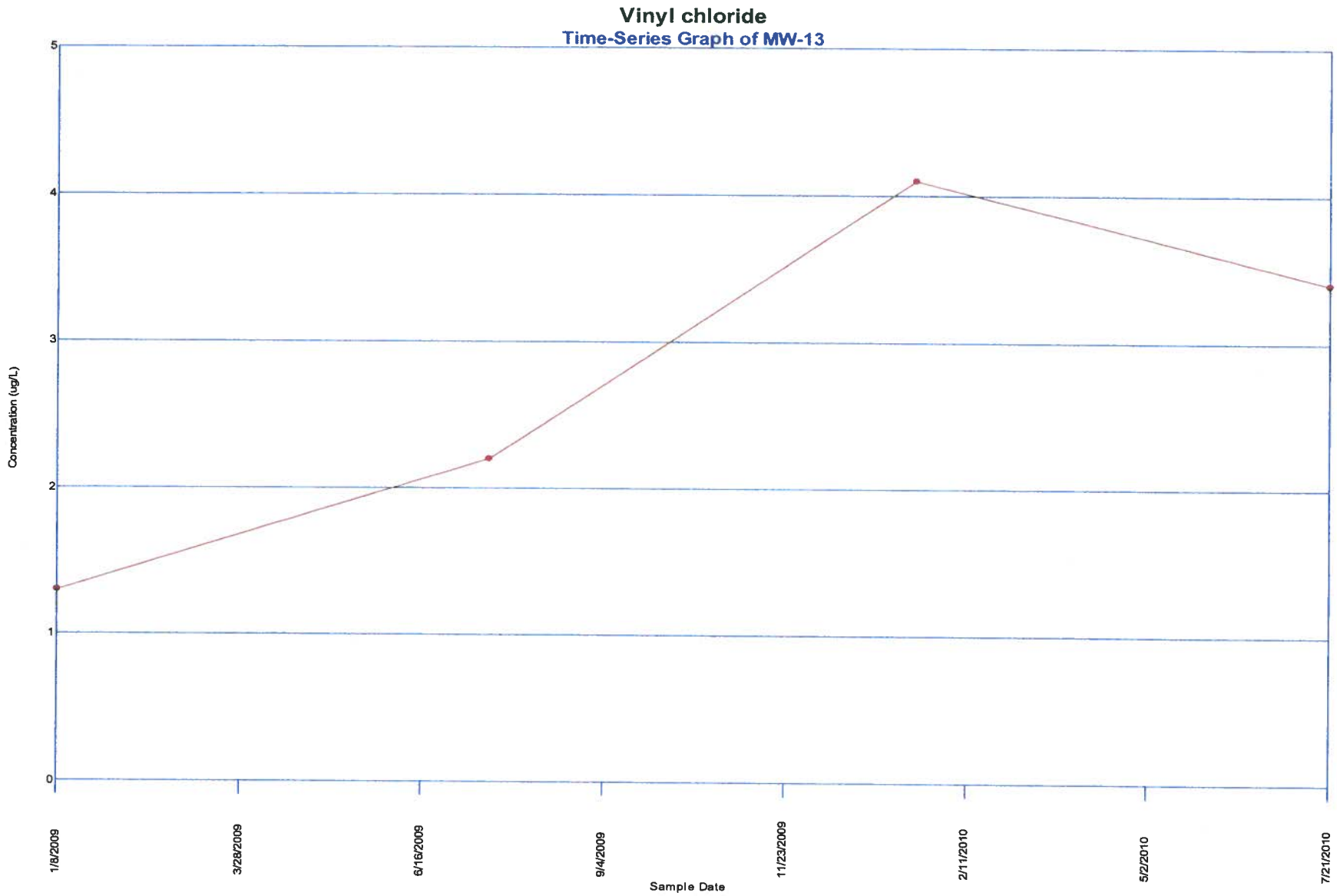

Trichloroethene
Time-Series Graph of MW-13
Concentration (ug/L)
3
2.5
2
1.5
1
0.5
0
1/8/2009
3/28/2009
6/16/2009
9/4/2009
11/23/2009
2/11/2010
5/2/2010
7/21/2010
Sample Date

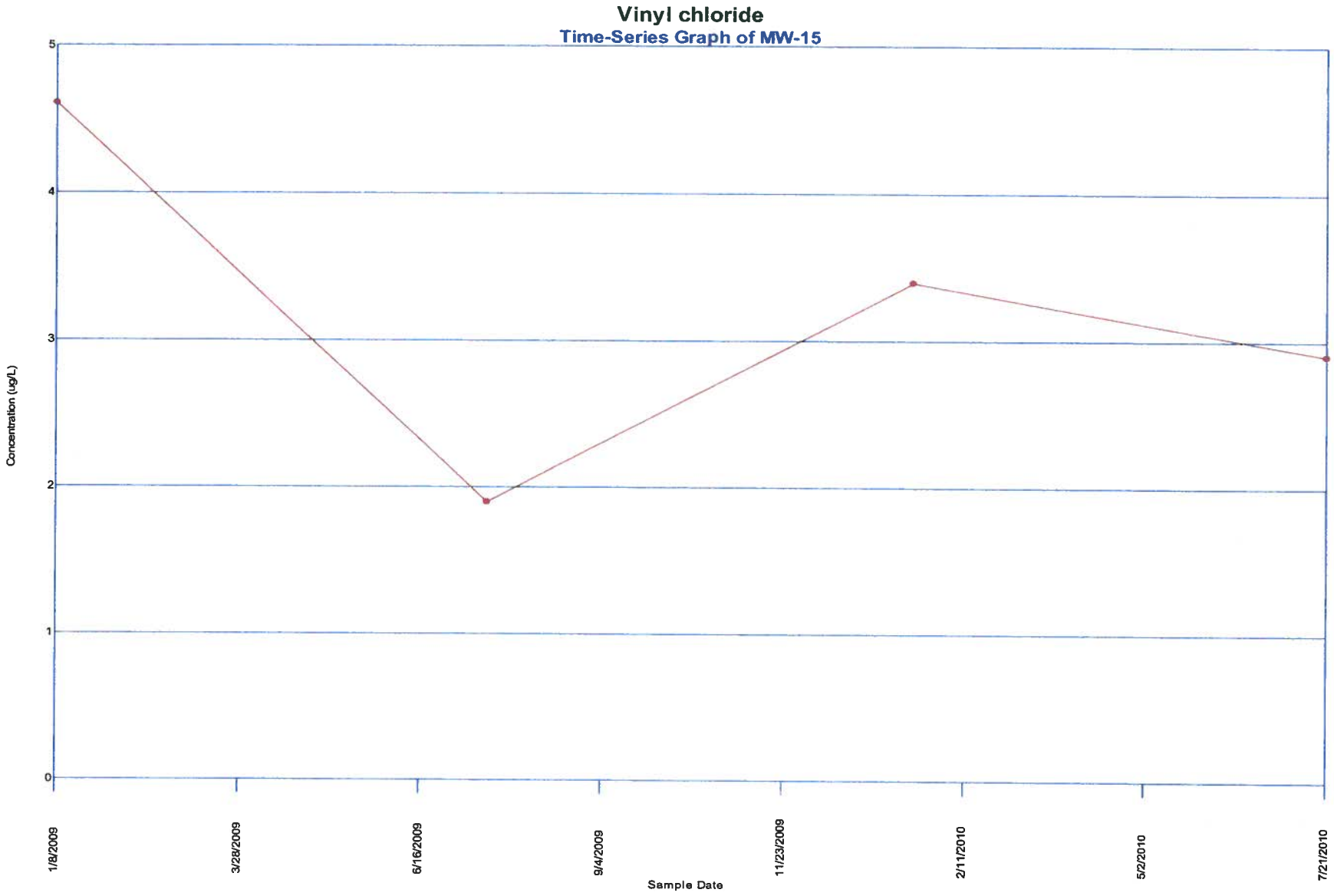

Trichloroethene
Time-Series Graph of MW-15
Concentration (ug/L)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/8/2009
3/28/2009
6/16/2009
9/4/2009
11/23/2009
2/11/2010
5/2/2010
7/21/2010
Sample Date

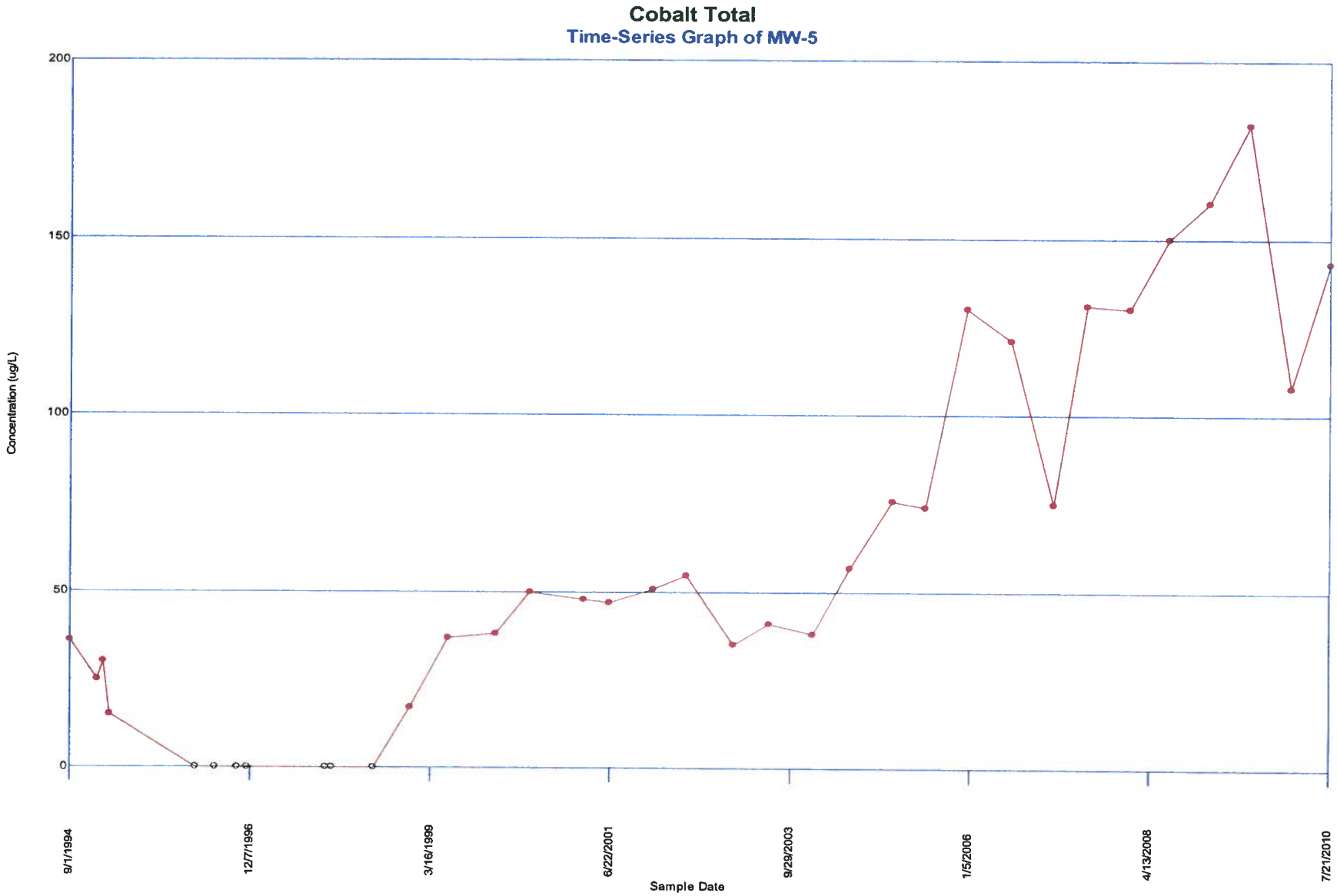

Vinyl chloride
Time-Series Graph of MW-5
Concentration (ug/L)
70
60
50
40
30
20
10
0
9/1/1994
12/7/1996
3/16/1999
6/22/2001
9/29/2003
1/5/2006
4/13/2008
7/21/2010
Sample Date

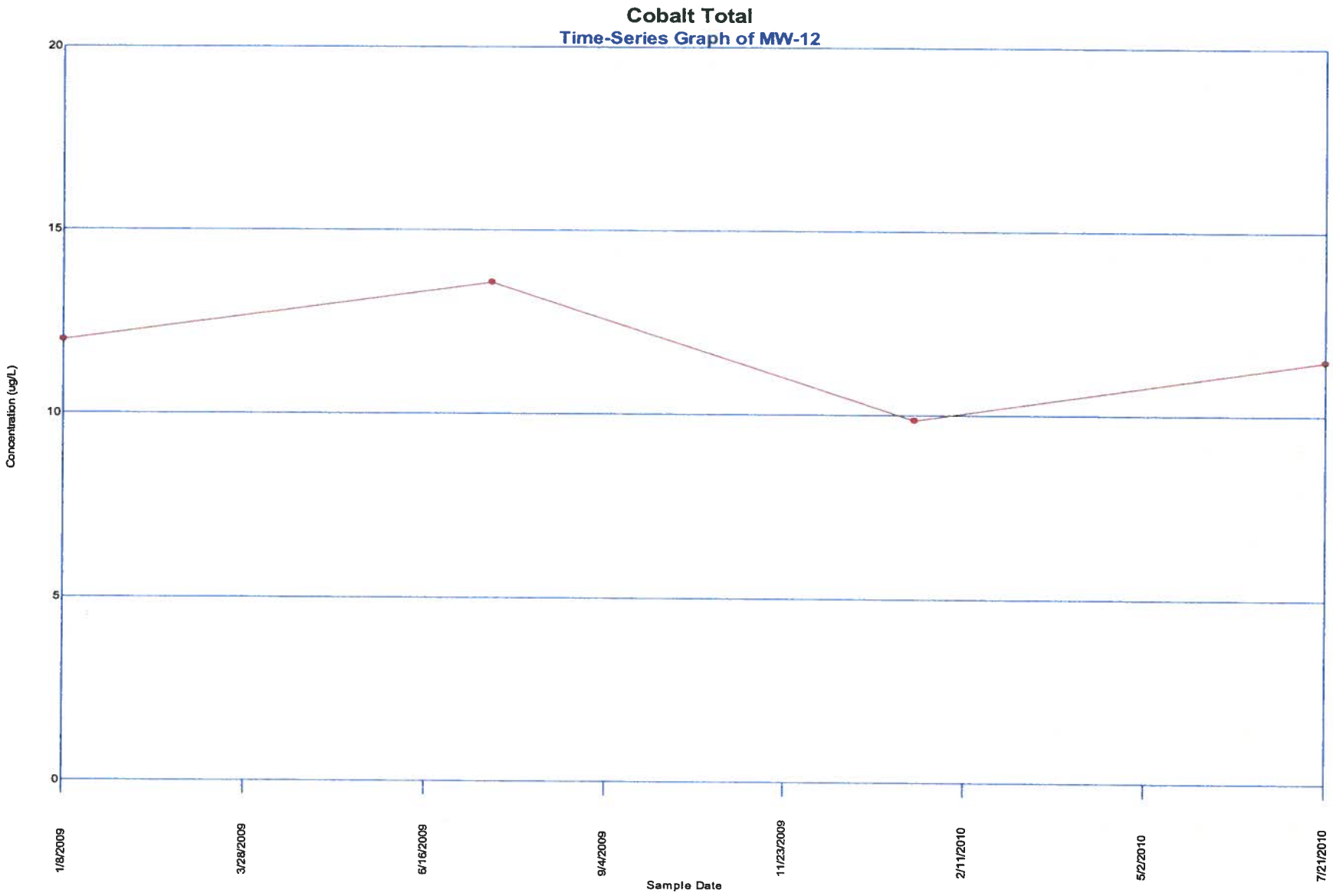

Vinyl chloride
Time-Series Graph of MW-7A
Concentration (ug/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/6/2000
7/8/2001
1/9/2003
7/12/2004
1/13/2006
7/17/2007
1/17/2009
7/21/2010
Sample Date

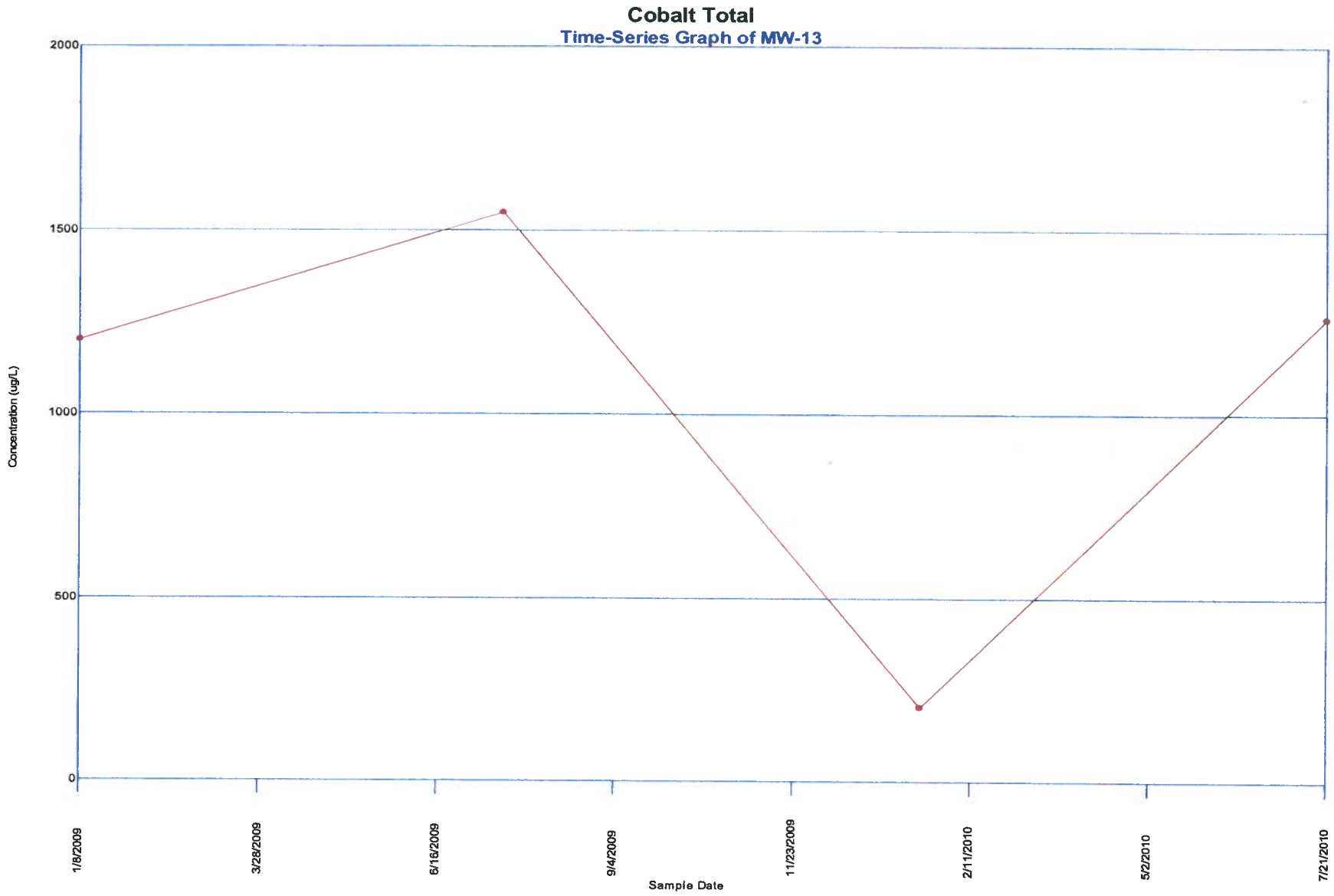

Vinyl chloride
Time-Series Graph of MW-12
Concentration (ug/L)
0.5
0.4
0.3
0.2
0.1
0
1/8/2009
3/28/2009
6/16/2009
9/4/2009
11/23/2009
2/11/2010
5/2/2010
7/21/2010
Sample Date

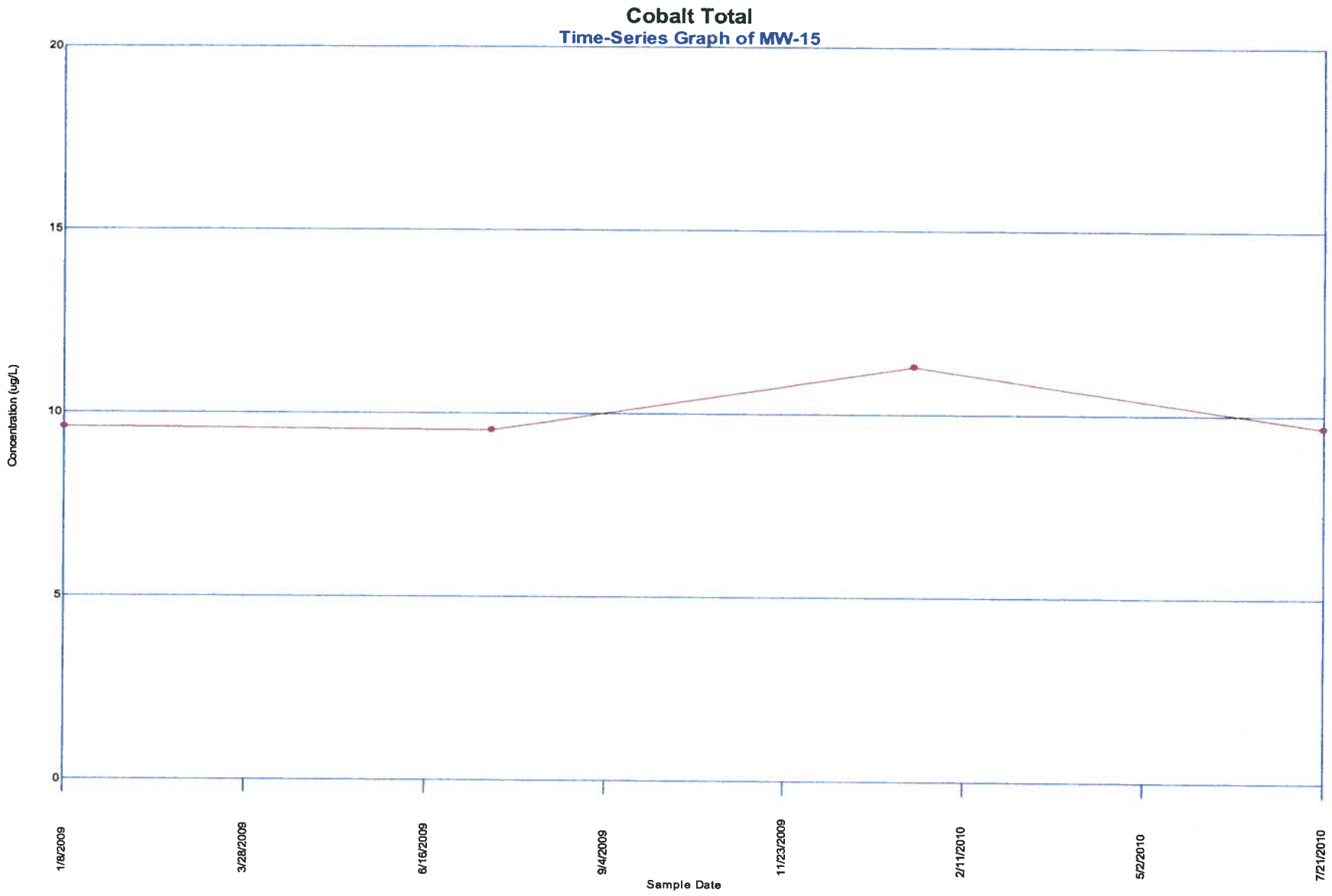

Vinyl chloride
Time-Series Graph of MW-13
Concentration (ug/L)
5
4
3
2
1
0
1/8/2009
3/28/2009
6/16/2009
9/4/2009
11/23/2009
2/11/2010
5/2/2010
7/21/2010
Sample Date

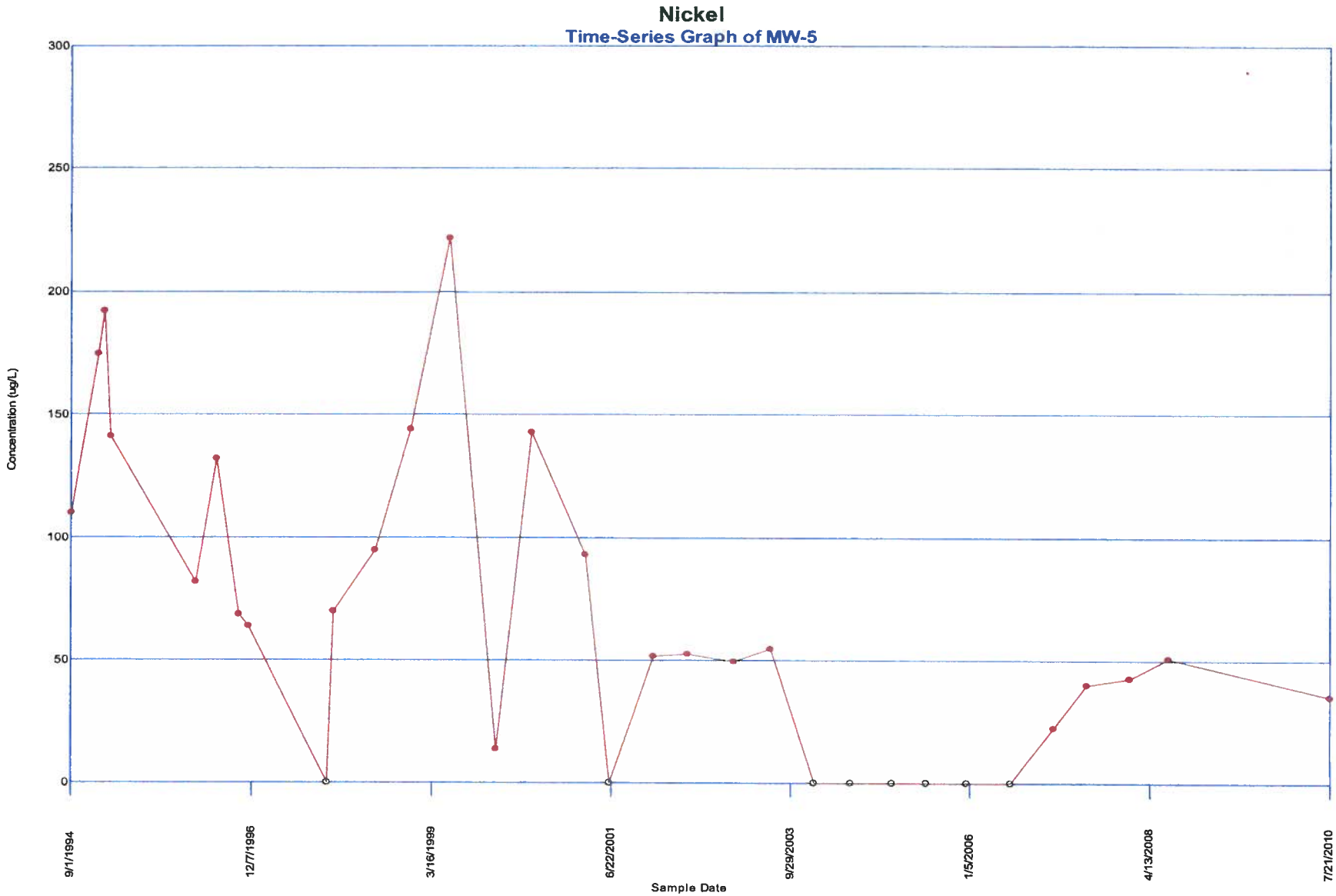

Vinyl chloride
Time-Series Graph of MW-15
Concentration (ug/L)
5
4
3
2
1
0
1/8/2009
3/28/2009
6/16/2009
9/4/2009
11/23/2009
2/11/2010
5/2/2010
7/21/2010
Sample Date


Cobalt Total
Time-Series Graph of MW-5
Concentration (ug/L)
200
150
100
50
0
9/1/1994
12/7/1996
3/16/1999
6/22/2001
9/29/2003
1/5/2006
4/13/2008
7/21/2010
Sample Date


Cobalt Total
Time-Series Graph of MW-12
Concentration (ug/L)
20
15
10
5
0
1/8/2009
3/28/2009
6/16/2009
9/4/2009
11/23/2009
2/11/2010
5/2/2010
7/21/2010
Sample Date


Cobalt Total
Time-Series Graph of MW-13
Concentration (ug/L)
2000
1500
1000
500
0
1/8/2009
3/28/2009
6/16/2009
9/4/2009
11/23/2009
2/11/2010
5/2/2010
7/21/2010
Sample Date


Cobalt Total
Time-Series Graph of MW-15
Concentration (ug/L)
20
15
10
5
0
1/8/2009
3/28/2009
6/16/2009
9/4/2009
11/23/2009
2/11/2010
5/2/2010
7/21/2010
Sample Date


Nickel
Time-Series Graph of MW-5
Concentration (ug/L)
300
250
200
150
100
50
0
9/1/1994
12/7/1996
3/16/1999
6/22/2001
9/29/2003
1/5/2006
4/13/2008
7/21/2010
Sample Date