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NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

S&ME, Inc. (consultant)

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

Name: Sam Watts Phone: 919-801-4920

E-mail: swatts@smeinc.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Edgecombe County Landfill	2872 Colonial Road Tarboro, NC 27886	33-01	.1600	January 23-24, 2014

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Samuel P. Watts — Consultant / Geologist — (919) 872-2660

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

Signature — 3/6/14 Date

Affix NC Licensed/Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1806 GEOLOGIST SAMUEL P. WATTS 3/6/14

S&ME, Inc., 3201 Spring Forest Rd., Raleigh, NC 27616

Facility Representative Address

F-0176

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

JANUARY 2014
ENVIRONMENTAL COMPLIANCE MONITORING REPORT
EDGECOMBE COUNTY LANDFILL
(PERMIT # 33-01)
TARBORO, NORTH CAROLINA

S&ME Project No. 1054-13-276

Prepared for:

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Solid Waste Department
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March 6, 2014

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1.0 PROJECT INFORMATION AND STATUS

1.1 Introduction

Edgecombe County currently operates a solid waste facility on a tract of land located off of 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 January 2014 monitoring event as required by § .0600 and .1632 of the Solid Waste Rules.

The January 2014 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 quality (**Figure 2**).

1.2 Background

Groundwater has been monitored at the landfill facility since 1994 in accordance with § .1632 of the Solid Waste Rules under the landfill's *Water Quality Monitoring Plan* (WQMP). The WQMP was originally written in September 1994, revised in June 2008 and again in January 2010. Current groundwater monitoring at the landfill is conducted in general confirmation with the January 2010 WQMP.

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 at Edgecombe County Landfill. Previous statistical evaluation of the groundwater monitoring data indicated that a release of VOCs and metals had occurred. 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 January 2014 semi-annual 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 JANUARY 2014 SAMPLING EVENT

On January 23 and 24, 2014, 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) and surface water samples at two locations (upstream/SW-1 and downstream/SW-2) 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. 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. 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. Water level measurements are presented in **Table 1** and **Figure 2**.

After collecting the static groundwater levels, stagnant water from wells that were scheduled for sampling were purged using a peristaltic pump. 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 Services, Inc. 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 10 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 managed under chain-of-custody protocols and shipped to Environmental Conservation Laboratories, Inc. (ENCO), a North Carolina-certified laboratory. ENCO analyzed the samples for constituents listed in 40 CFR 258 Appendix I.

The results of analytical testing are discussed in **Section 4.1** and a summary of constituent concentrations are presented in **Table 1** and **Table 2**. 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 up-gradient 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 January 2014 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 January 23, 2014 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 0.0218 ft/ft. The hydraulic gradient calculations are included in **Appendix III**.

3.2 Groundwater Flow Velocity

An approximate average linear groundwater flow velocity (V) was calculated using the following 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 rising and falling head tests were previously performed at the site by Law Engineering Company (Law) and by S&ME. The aquifer 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 0.0224 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.

The average groundwater flow velocity, V, for the site, using the equation and input values above, was estimated at 8.96 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 January 2014 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). The field measurements and analytical results are summarized on **Table 1.** The groundwater summary of compound detections is presented in **Table 2**. The chain-of-custody form and the laboratory reports from ENCO are provided in **Appendix I**.

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 Appendix I constituents were detected at levels that are equal to or exceed the **SWSL** concentration in one or more samples in the January 2014 monitoring event:

January 2014 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	--
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, cis-1,2-dichlroethene, vinyl chloride, arsenic, barium, cobalt, nickel, zinc
MW-6	Barium, cobalt, zinc
MW-7A	arsenic, benzene, barium, 1,4-dichlorobenzene
MW-12	benzene, chlorobenzene, 1,4-dichlorobenzene, barium, cobalt, zinc
MW-13	chlorobenzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, vinyl chloride, barium, beryllium, cobalt, nickel, zinc
MW-14	barium
MW-15	cis-1,2-dichloroethene, vinyl chloride, barium, cobalt
MW-16	barium

-- = No Appendix I constituent concentrations were detected above SWSL

Volatile Organic Compounds

No Appendix I VOC concentrations were reported at concentrations above the analytical method's detection limit in the groundwater samples collected from the background monitor wells MW-3B, MW-4, and MW-9, nor were they detected above the analytical method's detection limit in the groundwater samples collected from the compliance monitor wells MW-6, 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.

Inorganic Compounds

The table above lists the inorganic compounds detected in groundwater sampled from the up-gradient background monitor well MW-9 and down-gradient 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.

4.1.2 Compare Background and Compliance Detections to Standards

The following table summarizes the monitor well locations where Appendix I constituents were detected above the 2L Standard or GWPST (presented in **Table 2**). The following targeted chemicals were detected in one or more groundwater samples analyzed for the January 2014 monitoring event:

January 2014 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	cobalt
MW-4	antimony, vanadium
MW-9	--
Compliance Monitor Wells	**Appendix I Detected Constituents Above 2L Standard or GWPST**
MW-5	benzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, vinyl chloride, arsenic, cobalt
MW-6	cobalt
MW-7A	benzene, arsenic
MW-12	benzene, 1,4-dichlorobenzene, cobalt
MW-13	vinyl chloride, beryllium, cobalt, nickel, thallium
MW-14	--
MW-15	1,2-dichloropropane, vinyl chloride, cobalt
MW-16	cobalt

-- = No Appendix I constituent concentrations were detected above 2L Standard or GWPST.

No Appendix I VOC or inorganic compound concentrations were detected above their respective 2L Standards or GWPSTs in the groundwater samples collected from the up-gradient background monitor well MW-9, nor were they detected in the groundwater sample collected from the down-gradient compliance monitor well 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-6, MW-7A, MW-12, MW-13, MW-15, and MW-16.

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-five Appendix I constituents (summarized in **Table 2**) were detected above the MDL in one or more groundwater samples collected during the January 2014 monitoring event.

January 2014 Groundwater Sampling Event
Appendix I Constituent Concentration Detected Above MDL

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

4.1.4 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, with the exception of dissolved metals. 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. Given that the record sample and the duplicate sample for MW-5 were analyzed at a one to ten dilution factor for the VOC analysis, these results fall within an acceptable tolerance level and indicate suitable replications of results from the test procedures.

Acetone and barium were the only constituents detected at concentrations that exceeded their respective MDL, but was below their respective SWSL in the equipment blank sample. Because acetone and barium were detected in the equipment blank sample, the determination of the presence of copper and lead in the monitor well record samples were inconclusive.

Some technical limitations exist in the laboratory's reporting of MDLs. MDLs for some VOCs and some inorganic constituents are above applicable standards. The MDL for vinyl chloride (0.32 µg/L), cobalt (1.1 µg/L), and vanadium (1.4 µg/L) in groundwater are greater than the 2L Standard of 0.03 µg/L for vinyl chloride and the GWPSTs of 1.0 µg/L for cobalt and 0.3 µg/L for vanadium. Therefore, vinyl chloride, cobalt, and vanadium may have been present at concentrations above their respective 2L Standard/GWPST, but were reported as being below their respective MDLs.

4.2 Surface Water Analytical Data

Surface water samples were collected from two surface water stations (upstream/SW-1 and downstream/SW-2) in Jerry's Creek as part of the January 2014 monitoring event. Surface water sample stations are illustrated on **Figure 2**.

Laboratory analytical results indicated that only one organic constituent (acetone) was reported above the laboratory method detection limits in the downstream/SW-2 surface water sample. However, the detected concentration of acetone was below the 2L Standards and SWSL for acetone.

Laboratory analysis indicated that cobalt was detected above the GWPST in the surface water sample collected from both the upstream/SW-1 and downstream/SW-2 locations. There is no 2L Standard for cobalt; the alternate GWPST was used, but it should be noted that the concentrations reported (1.88 µg/L for the upstream/SW-1 location and 1.43 µg/L for the downstream/SW-2 location) were below the SWSL and were flagged by the laboratory as estimated values. One additional Appendix I inorganic constituent (barium) was detected in the surface water samples above the laboratory MDL, but below the respective 2L Standards, GWPSTs, and SWSLs.

5.0 DISCUSSION OF GROUNDWATER DETECTIONS

Statistical analysis has been performed in previous reports to evaluate the significance of the analytical results. These analyses include a more comprehensive discussion of the groundwater quality and trends than are within the scope of this report. Modifications to the sampling and reporting schedule were made in the *Baseline Sampling and Monitored Natural Attenuation Report* (S&ME, 2011), which established that monitored natural attenuation parameters sampling and statistical analysis will be performed on an 18-month basis. Time series graphs for individual constituents were plotted for wells with detections of the corresponding constituents over the regulatory limits. The constituent charts are provided in **Appendix IV.**

5.1 Appendix I Inorganics

Of the 23 Appendix I constituents that were reported above the MDL from the January 2014 monitoring event, thirteen 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 thirteen inorganic compounds, with the exception of antimony and silver, were compared to the expected groundwater concentration calculated from the soil-to-groundwater 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, chromium, 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 January 2014 monitoring event. During the January 2014 sampling event, six Appendix I inorganics were detected, in groundwater samples collected from compliance wells, at concentrations above their respective 2L Standards/GWPST or the expected groundwater concentration from the ASD: arsenic, barium, cobalt, nickel and thallium.

5.2 Appendix I VOCs

Appendix I VOCs were reported above the laboratory method detection limits in groundwater samples collected from compliance monitor wells MW-5, MW-7A, MW-12, MW-13, and MW-15. Of the detected constituents, the following were reported at concentrations in excess of the respective 2L Standard/GWPST: benzene, 1,4-dichlorobenzene, cis-1,2-dischloroethene, 1,2-dichloropropane, and vinyl chloride.

With some exceptions, concentrations of VOCs tend to increase during the July sampling events and decrease during the January sampling events. Lower January concentrations are likely a function of the higher water table resulting from increased rainfall in the winter months. The goals of the corrective measures include minimizing the infiltration of rainwater through the waste, and increasing the residence time of constituents so that constituents are completely attenuated prior to migration off site.

5.3 Previous Investigations Selected Corrective Measures Remedy

On June 30, 2008, S&ME prepared a *Corrective Action Plan* in which the following corrective measures were recommended:

- Installation of an up-gradient groundwater barrier wall;
- Maintaining a consistent contour with pre-1998 waste area;
- Increasing slope of the closed MSW area;
- Stormwater improvements on the western half of the landfill; and,
- Implementation of a MNA program to address impacted groundwater.

S&ME prepared a *Baseline Water Quality and Monitored Natural Attenuation Report*, which established baseline water quality standards to gauge monitored attenuation and establish the key parameters for sampling. Corrective measures currently being implemented at the site include the increase in slope of the closed MSW area, stormwater improvements, and the implementation of the MNA program. Semi-annual monitoring will continue to assess the effectiveness of the corrective measures.

6.0 CONCLUSIONS AND RECOMMENDATIONS

S&ME performed semiannual sampling at the Edgecombe County Landfill in Tarboro, North Carolina. During the January 2014 sampling event, groundwater elevations were calculated from water levels measured in approximately 27 points in the monitoring network described in the WQMP. Groundwater samples were collected from three background (up-gradient) monitor wells and eight compliance (down-gradient) monitor wells. Surface water samples were collected from two stream sample locations (upstream and downstream).

6.1 Summary of January 2014 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 0.0218 ft/ft. The average groundwater flow velocity for the site is approximately 8.96 ft/yr.

- Constituent concentrations of 23 Appendix I analytes were detected in one or more samples collected during the January 2014 monitoring event. Eleven of the 25 Appendix I analytes were detected in one or more samples at concentrations equal to or exceeding their respective SWSLs. Barium was detected in one up-gradient (background) sample (MW-9) above its respective SWSL.

- Twelve Appendix I analytes were detected at concentrations in excess of the 2L Standards/GWPSTs in groundwater samples collected at the site including benzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, 1,2-dichloropropane, vinyl chloride, antimony, arsenic, beryllium, cobalt, nickel, thallium and vanadium. Wells in which there were one or more constituents above the standards include MW-3B, MW-4, MW-5, MW-6, MW-7A, MW-12, MW-13, MW-15, and MW-16.

- Three Appendix I inorganics (metals) were detected above the laboratory method detection limits in the surface water samples collected from Jerry's Creek. One constituent, cobalt, was detected in the upstream/SW-1 and downstream/SW-2 samples at concentrations above the GWPST. The concentrations were above the laboratory method detection limit but below the practical quantitative limit and the concentration was flagged as an estimated value.

- 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 and the construction of the barrier wall; therefore, monitoring for this event is also for

compliance with § .1637 (a)(1) under Implementation of the Corrective Action Program.

6.1 Recommendations

The results of the January 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.

According to the *Corrective Action Plan Review* letter, dated January 16, 2009, the Solid Waste Section recommends that semiannual sampling be continued at the site for analytes on the Appendix I constituent list.

S&ME completed four baseline data sets of MNA parameters and has submitted the *Baseline Water Quality and MNA Corrective Action Evaluation Report (Baseline and MNA Report)*, dated July 19, 2012. As part of the recommendations, S&ME revised the sampling schedule for the semi-annual groundwater monitoring events. Select monitored attenuation parameters will be monitored on an 18 month basis and will be included in the July 2014 semi-annual monitoring event. S&ME recommends sampling according to the schedule submitted in the *Baseline and MNA Report*.

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.

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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.

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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.

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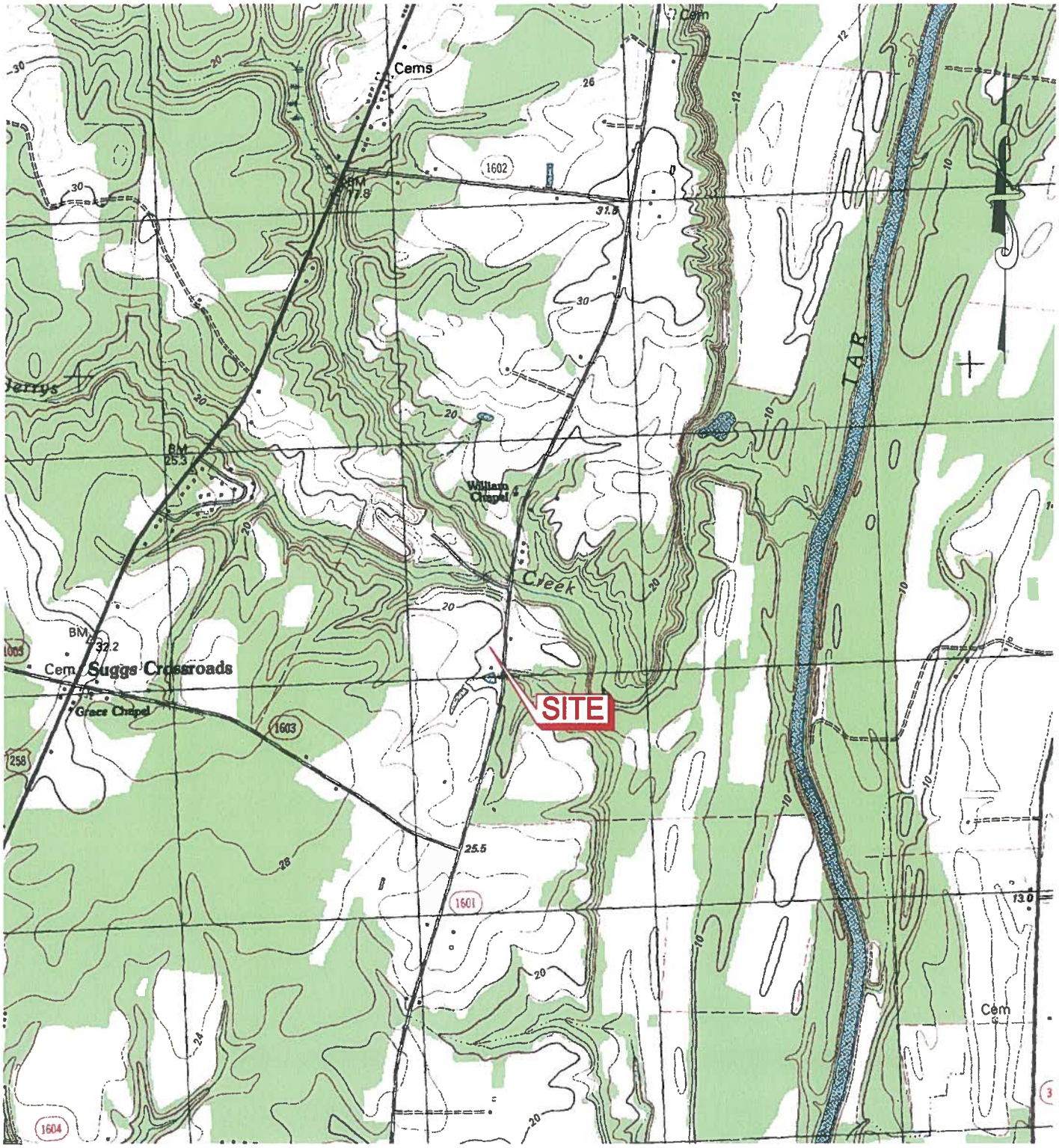
S&ME, Inc., *Water Quality Monitoring Plan, Edgecombe County Landfill, Tarboro, North Carolina*, June 30, 2008, Revised January 2010.

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



GRAPHIC SCALE

1000 0 500 1000 2000

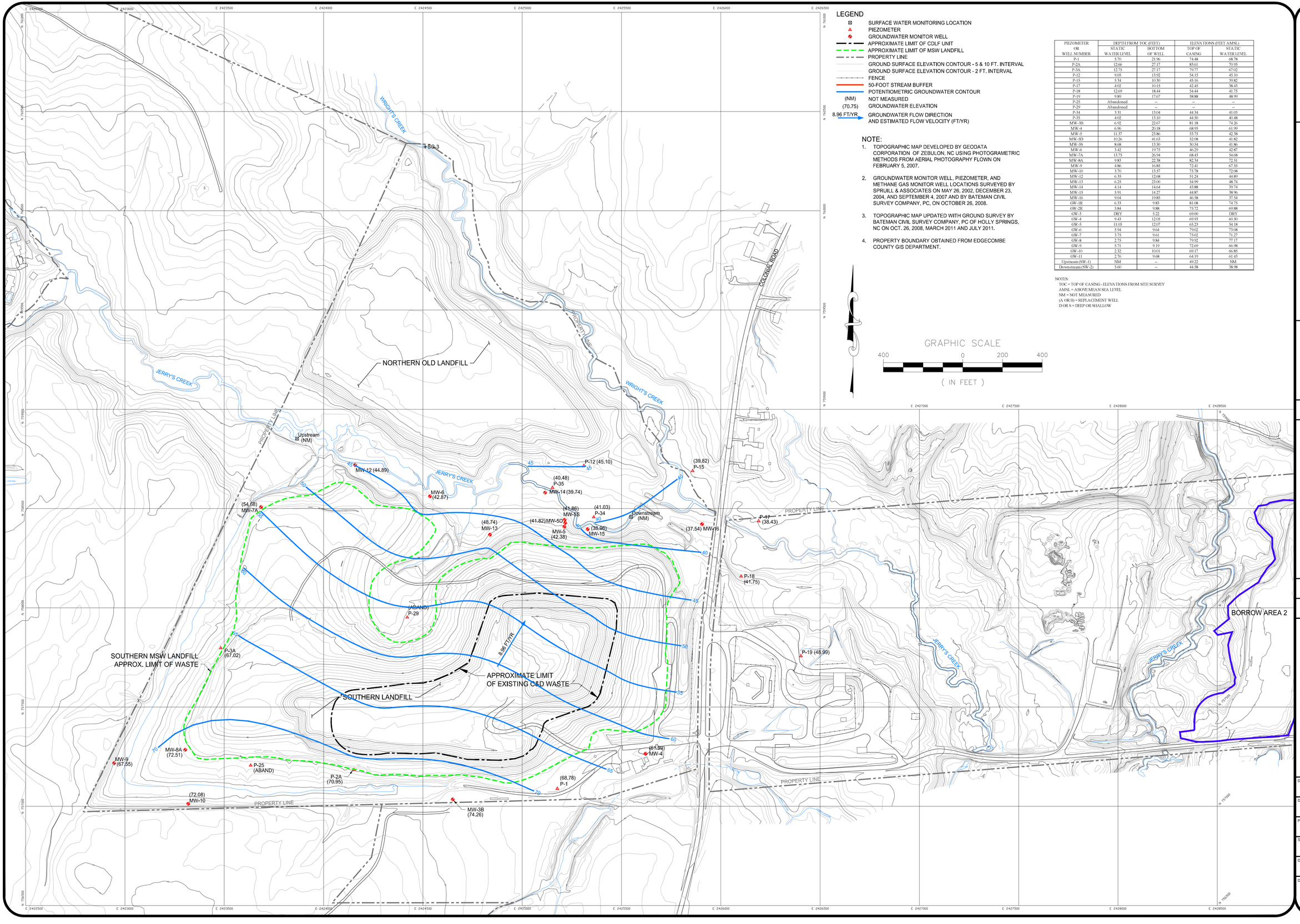
(IN FEET)

TOPO SOURCE: NCGS DRG
OLD SPARTA, NC (035077G5) DATED 1981
CONTOUR INTERVAL: 2 METERS

A-3849

SCALE: 1" = 2000'	S&ME WWW.SMEINC.COM	VICINITY MAP	FIGURE NO.
DATE: AUG. 2013		COMPLIANCE MONITORING REPORT EDGECOMBE COUNTY LANDFILL TARBORO, NORTH CAROLINA	1
DRAWN BY:			
PROJECT NO: 1054-07-238E	NC ENGINEER LICENSE #F-0176 3201 SPRING FOREST RD, RALEIGH, NC 27616		

S:\PROJECTS\2007\07-238E Edgecombe - Env Monitoring 2012-13\CAD\A3849.dwg, FIG1, 8/20/2013 2:29:13 PM, 1:1



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
- (70.75) GROUNDWATER ELEVATION
- 8.96 FT/YR 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 OCT. 26, 2008, MARCH 2011 AND JULY 2011.
4. PROPERTY BOUNDARY OBTAINED FROM EDGECOMBE COUNTY GIS DEPARTMENT.

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	5.70	21.56	74.48	68.78
P-2A	12.66	27.17	83.61	70.95
P-3A	12.75	27.17	79.77	67.02
P-12	9.05	13.92	54.15	45.10
P-15	5.34	10.30	45.16	39.82
P-17	4.02	10.15	42.45	38.43
P-18	12.69	18.44	54.44	41.75
P-19	9.89	17.67	58.88	48.99
P-25	Abandoned	--	--	--
P-29	Abandoned	--	--	--
P-34	3.31	13.04	44.34	41.03
P-35	4.02	13.10	44.50	40.48
MW-3B	6.92	22.67	81.18	74.26
MW-4	6.96	20.18	68.95	61.99
MW-5	11.37	23.86	53.75	42.38
MW-5D	10.26	41.63	52.08	41.82
MW-5S	8.68	13.50	50.54	41.86
MW-6	3.42	19.75	46.29	42.87
MW-7A	13.75	26.94	68.43	54.68
MW-8A	9.83	22.38	82.34	72.51
MW-9	4.86	16.85	72.41	67.55
MW-10	3.70	13.57	75.78	72.08
MW-12	6.35	12.68	51.24	44.89
MW-13	6.25	23.00	54.99	48.74
MW-14	4.14	14.64	43.88	39.74
MW-15	5.91	14.27	44.87	38.96
MW-16	9.04	19.85	46.58	37.54
GW-1R	6.33	9.83	81.08	74.75
GW-2R	5.84	9.88	75.72	69.88
GW-3	DRY	5.22	69.00	DRY
GW-4	9.43	12.05	69.93	60.50
GW-5	11.05	12.07	65.23	54.18
GW-6	5.94	9.64	79.02	73.08
GW-7	3.75	9.61	75.02	71.27
GW-8	2.75	9.84	79.92	77.17
GW-9	5.71	9.19	72.69	66.98
GW-10	2.32	10.01	69.17	66.85
GW-11	2.76	9.68	64.19	61.43
Upstream (SW-1)	NM	--	49.22	NM
Downstream (SW-2)	5.60	--	44.58	38.98

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
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NO.	DATE	DESCRIPTION	BY

GROUNDWATER POTENTIOMETRIC MAP
JANUARY 23, 2014

ENVIRONMENTAL COMPLIANCE MONITORING
EDGECOMBE COUNTY LANDFILL
TARBORO, NORTH CAROLINA

DRAWN BY: BTR	CHECKED BY:
DESIGNED BY:	APPROVED BY:
PROJECT NUMBER: 1054-13-276	
SCALE: 1" = 200'	DATE: FEB. 2014
DRAWING NUMBER: D-1356	
DRAWING: 2	OF: 2

TABLES

Table 1 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
January 23 and 24, 2014
S&ME Project No. 1054-13-276

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	MRL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-P1		318	Depth To Water	5.70	ft							1/23/2014			
33-01	3301-P1		411	Total Well Depth	21.96	ft							1/23/2014			
33-01	3301-P1		328	TOC Elevation	74.48	ft AMSL							1/23/2014			
33-01	3301-P1		319	Groundwater Elevation	68.78	ft AMSL							1/23/2014			
33-01	3301-P2A		318	Depth To Water	12.66	ft							1/23/2014			
33-01	3301-P2A		411	Total Well Depth	27.17	ft							1/23/2014			
33-01	3301-P2A		328	TOC Elevation	83.61	ft AMSL							1/23/2014			
33-01	3301-P2A		319	Groundwater Elevation	70.95	ft AMSL							1/23/2014			
33-01	3301-P3A		318	Depth To Water	12.75	ft							1/23/2014			
33-01	3301-P3A		411	Total Well Depth	27.17	ft							1/23/2014			
33-01	3301-P3A		328	TOC Elevation	79.77	ft AMSL							1/23/2014			
33-01	3301-P3A		319	Groundwater Elevation	67.02	ft AMSL							1/23/2014			
33-01	3301-P12		318	Depth To Water	9.05	ft							1/23/2014			
33-01	3301-P12		411	Total Well Depth	13.92	ft							1/23/2014			
33-01	3301-P12		328	TOC Elevation	54.15	ft AMSL							1/23/2014			
33-01	3301-P12		319	Groundwater Elevation	45.10	ft AMSL							1/23/2014			
33-01	3301-P15		318	Depth To Water	5.34	ft							1/23/2014			
33-01	3301-P15		411	Total Well Depth	10.36	ft							1/23/2014			
33-01	3301-P15		328	TOC Elevation	45.16	ft AMSL							1/23/2014			
33-01	3301-P15		319	Groundwater Elevation	39.82	ft AMSL							1/23/2014			
33-01	3301-P17		318	Depth To Water	4.02	ft							1/23/2014			
33-01	3301-P17		411	Total Well Depth	10.15	ft							1/23/2014			
33-01	3301-P17		328	TOC Elevation	42.45	ft AMSL							1/23/2014			
33-01	3301-P17		319	Groundwater Elevation	38.43	ft AMSL							1/23/2014			
33-01	3301-P18		318	Depth To Water	12.69	ft							1/23/2014			
33-01	3301-P18		411	Total Well Depth	18.44	ft							1/23/2014			
33-01	3301-P18		328	TOC Elevation	54.44	ft AMSL							1/23/2014			
33-01	3301-P18		319	Groundwater Elevation	41.75	ft AMSL							1/23/2014			
33-01	3301-P19		318	Depth To Water	9.89	ft							1/23/2014			
33-01	3301-P19		411	Total Well Depth	17.67	ft							1/23/2014			
33-01	3301-P19		328	TOC Elevation	58.88	ft AMSL							1/23/2014			
33-01	3301-P19		319	Groundwater Elevation	48.99	ft AMSL							1/23/2014			
33-01	3301-P25		318	Depth To Water	Abandoned	ft							1/23/2014			
33-01	3301-P25		411	Total Well Depth	12.97	ft							1/23/2014			
33-01	3301-P25		328	TOC Elevation	80.57	ft AMSL							1/23/2014			
33-01	3301-P25		319	Groundwater Elevation	Abandoned	ft AMSL							1/23/2014			
33-01	3301-P29		318	Depth To Water	Abandoned	ft							1/23/2014			
33-01	3301-P29		411	Total Well Depth	13.19	ft							1/23/2014			
33-01	3301-P29		328	TOC Elevation	65.29	ft AMSL							1/23/2014			
33-01	3301-P29		319	Groundwater Elevation	Abandoned	ft AMSL							1/23/2014			
33-01	3301-P34		318	Depth To Water	3.31	ft							1/23/2014			
33-01	3301-P34		411	Total Well Depth	13.04	ft							1/23/2014			
33-01	3301-P34		328	TOC Elevation	44.34	ft AMSL							1/23/2014			
33-01	3301-P34		319	Groundwater Elevation	41.03	ft AMSL							1/23/2014			
33-01	3301-P35		318	Depth To Water	4.02	ft							1/23/2014			
33-01	3301-P35		411	Total Well Depth	13.10	ft							1/23/2014			
33-01	3301-P35		328	TOC Elevation	44.50	ft AMSL							1/23/2014			
33-01	3301-P35		319	Groundwater Elevation	40.48	ft AMSL							1/23/2014			
33-01	3301-MW3B		318	Depth To Water	6.92	ft							1/23/2014			
33-01	3301-MW3B		411	Total Well Depth	22.67	ft							1/23/2014			
33-01	3301-MW3B		328	TOC Elevation	81.18	ft AMSL							1/23/2014			
33-01	3301-MW3B		319	Groundwater Elevation	74.26	ft AMSL							1/23/2014			
33-01	3301-MW3B		320	pH	3.86	standard units							1/23/2014			
33-01	3301-MW3B		323	Specific Conductivity	0.717	mS/cm							1/23/2014			
33-01	3301-MW3B		325	Temperature	13.93	ºC							1/23/2014			
33-01	3301-MW3B		330	Turbidity	1.1	NTUs							1/23/2014			
33-01	3301-MW3B	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW3B	7439-92-1	131	Lead Total	2.10	ug/L	U	6010C	2.10	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW3B	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	7440-38-2	14	Arsenic Total	5.40	ug/L	U	6010C	5.40	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW3B	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	7440-39-3	15	Barium Total	65.5	ug/L	J	6010C	1.00	10.0	100	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW3B	7440-02-0	152	Nickel Total	3.33	ug/L	J	6010C	1.80	10.0	50	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW3B	71-43-2	16	Benzene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	7782-49-2	183	Selenium Total	0.910	ug/L	U	6020A	0.910	1.00	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW3B	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW3B	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	7440-28-0	194	Thallium Total	0.194	ug/L	J	6020A	0.110	1.00	5.5	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW3B	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW3B	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	75-01-4	211	Vinyl chloride	0.32	ug/L	U	8260B	0.32	1.0	1	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	7440-66-6	213	Zinc Total	7.04	ug/L	J	6010C	3.80	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW3B	7440-41-7	23	Beryllium Total	0.159	ug/L	J	6010C	0.100	1.00	1	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW3B	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW3B	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	108-90-7	39	Chlorobenzene	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	7440-47-3	51	Chromium Total	1.40	ug/L	U	6010C	1.40	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW3B	7440-48-4	53	Cobalt Total	5.11	ug/L	J	6010C	1.10	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW3B	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW3B	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	106-46-7	71	1,4-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	1	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	75-34-3	75	1,1-Dichloroethane	0.13	ug/L	U	8260B	0.13	1.0	5	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	156-59-2	78	cis-1,2-Dichloroethene	0.15	ug/L	U	8260B	0.15	1.0	5	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW3B	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/23/2014	1/27/2014	1/28/2014	591
33-01	3301-MW4		318	Depth To Water	6.92	ft							1/23/2014			
33-01	3301-MW4		411	Total Well Depth	20.18	ft							1/23/2014			
33-01	3301-MW4		328	TOC Elevation	68.95	ft AMSL							1/23/2014			
33-01	3301-MW4		319	Groundwater Elevation	62.03	ft AMSL							1/23/2014			
33-01	3301-MW4		320	pH	4.97	standard units							1/23/2014			
33-01	3301-MW4		323	Specific Conductivity	0.585	mS/cm							1/23/2014			
33-01	3301-MW4		325	Temperature	12.82	ºC							1/23/2014			
33-01	3301-MW4		330	Turbidity	3.0	NTUs							1/23/2014			

Table 1 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
January 23 and 24, 2014
S&ME Project No. 1054-13-276

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	MRL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-MW4	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	7440-36-0	13	Antimony Total	1.52	ug/L	J	6020A	0.220	2.00	6	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW4	7439-92-1	131	Lead Total	2.10	ug/L	U	6010C	2.10	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW4	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	7440-38-2	14	Arsenic Total	5.40	ug/L	U	6010C	5.40	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW4	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	7440-39-3	15	Barium Total	72.1	ug/L	J	6010C	1.00	10.0	100	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW4	7440-02-0	152	Nickel Total	1.80	ug/L	U	6010C	1.80	10.0	50	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW4	71-43-2	16	Benzene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	7782-49-2	183	Selenium Total	0.910	ug/L	U	6020A	0.910	1.00	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW4	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW4	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	1.00	5.5	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW4	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	7440-62-2	209	Vanadium Total	1.40	ug/L	J	6010C	1.40	10.0	25	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW4	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	75-01-4	211	Vinyl chloride	0.32	ug/L	U	8260B	0.32	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	7440-66-6	213	Zinc Total	4.90	ug/L	J	6010C	3.80	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW4	7440-41-7	23	Beryllium Total	0.112	ug/L	J	6010C	0.100	1.00	1	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW4	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW4	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	108-90-7	39	Chlorobenzene	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	7440-47-3	51	Chromium Total	1.40	ug/L	U	6010C	1.40	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW4	7440-48-4	53	Cobalt Total	1.10	ug/L	U	6010C	1.10	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW4	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW4	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	106-46-7	71	1,4-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	75-34-3	75	1,1-Dichloroethane	0.13	ug/L	U	8260B	0.13	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	156-59-2	78	cis-1,2-Dichloroethene	0.15	ug/L	U	8260B	0.15	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW4	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5		318	Depth To Water	11.37	ft							1/23/2014			
33-01	3301-MW5		411	Total Well Depth	23.86	ft							1/23/2014			
33-01	3301-MW5		328	TOC Elevation	53.75	ft AMSL							1/23/2014			
33-01	3301-MW5		319	Groundwater Elevation	42.38	ft AMSL							1/23/2014			
33-01	3301-MW5		320	pH	5.83	standard units							1/23/2014			
33-01	3301-MW5		323	Specific Conductivity	2.075	mS/cm							1/23/2014			
33-01	3301-MW5		325	Temperature	16.17	ºC							1/23/2014			
33-01	3301-MW5		330	Turbidity	2.2	NTUs							1/23/2014			
33-01	3301-MW5	100-41-4	110	Ethylbenzene	0.65	ug/L	UD	8260B	0.65	5.0	1	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	591-78-6	124	2-Hexanone	4.4	ug/L	UD	8260B	4.4	25	50	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW5	7439-92-1	131	Lead Total	9.65	ug/L	J	6010C	2.10	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW5	74-83-9	136	Bromomethane	0.70	ug/L	UD	8260B	0.70	5.0	10	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	74-87-3	137	Chloromethane	0.65	ug/L	UD	8260B	0.65	5.0	1	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	74-95-3	139	Dibromomethane	1.4	ug/L	UD	8260B	1.4	5.0	10	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	7440-38-2	14	Arsenic Total	51.1	ug/L		6010C	5.40	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW5	75-09-2	140	Methylene chloride	1.2	ug/L	UD	8260B	1.2	5.0	1	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	78-93-3	141	2-Butanone	6.5	ug/L	UD	8260B	6.5	25	100	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	74-88-4	142	Iodomethane	8.5	ug/L	UD	8260B	8.5	25	10	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	108-10-1	147	4-Methyl-2-pentanone	5.5	ug/L	UD	8260B	5.5	25	100	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	7440-39-3	15	Barium Total	268	ug/L		6010C	1.00	10.0	100	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW5	7440-02-0	152	Nickel Total	59.8	ug/L		6010C	1.80	10.0	50	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW5	71-43-2	16	Benzene	4.8	ug/L	JD	8260B	0.75	5.0	1	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	7782-49-2	183	Selenium Total	0.910	ug/L	U	6020A	0.910	1.00	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW5	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW5	100-42-5	186	Styrene	0.55	ug/L	UD	8260B	0.55	5.0	1	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	630-20-6	190	1,1,1,2-Tetrachloroethane	0.85	ug/L	UD	8260B	0.85	5.0	5	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	79-34-5	191	1,1,2,2-Tetrachloroethane	1.4	ug/L	UD	8260B	1.4	5.0	3	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	127-18-4	192	Tetrachloroethene	0.85	ug/L	UD	8260B	0.85	5.0	1	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	7440-28-0	194	Thallium Total	0.149	ug/L	J	6020A	0.110	1.00	5.5	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW5	108-88-3	196	Toluene	0.70	ug/L	UD	8260B	0.70	5.0	1	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	71-55-6	200	1,1,1-Trichloroethane	0.60	ug/L	UD	8260B	0.60	5.0	1	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	79-01-6	201	Trichloroethene	0.75	ug/L	UD	8260B	0.75	5.0	1	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	79-00-5	202	1,1,2-Trichloroethane	0.70	ug/L	UD	8260B	0.70	5.0	1	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	75-69-4	203	Trichlorofluoromethane	1.2	ug/L	UD	8260B	1.2	5.0	1	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	96-18-4	206	1,2,3-Trichloropropane	1.2	ug/L	UD	8260B	1.2	5.0	1	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW5	108-05-4	210	Vinyl acetate	4.8	ug/L	UD	8260B	4.8	25	50	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	75-01-4	211	Vinyl chloride	25	ug/L	D	8260B	1.6	5.0	1	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	7440-66-6	213	Zinc Total	80.0	ug/L		6010C	3.80	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW5	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1.00	1	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW5	74-97-5	28	Bromochloromethane	2.4	ug/L	UD	8260B	2.4	5.0	3	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	75-27-4	29	Bromodichloromethane	0.85	ug/L	UD	8260B	0.85	5.0	1	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	67-64-1	3	Acetone	6.0	ug/L	UD	8260B	6.0	25	100	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	75-25-2	30	Bromoform	1.1	ug/L	UD	8260B	1.1	5.0	3	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW5	1330-20-7	346	Xylenes (Total)	2.2	ug/L	UD	8260B	2.2	15	5	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	75-15-0	35	Carbon disulfide	7.5	ug/L	UD	8260B	7.5	25	100	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	56-23-5	36	Carbon tetrachloride	0.85	ug/L	UD	8260B	0.85	5.0	1	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	108-90-7	39	Chlorobenzene	16	ug/L	D	8260B	0.85	5.0	3	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	75-00-3	41	Chloroethane	1.2	ug/L	UD	8260B	1.2	5.0	10	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	67-66-3	44	Chloroform	0.90	ug/L	UD	8260B	0.90	5.0	5	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	7440-47-3	51	Chromium Total	1.40	ug/L	U	6010C	1.40	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW5	7440-48-4	53	Cobalt Total	190	ug/L		6010C	1.10	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW5	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW5	124-48-1	66	Dibromochloromethane	0.85	ug/L	UD	8260B	0.85	5.0	3	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	96-12-8	67	1,2-Dibromo-3-chloropropane	2.4	ug/L	UD	8260B	2.4	5.0	13	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	106-93-4	68	1,2-Dibromoethane	3.3	ug/L	UD	8260B	3.3	5.0	1	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	95-50-1	69	1,2-Dichlorobenzene	0.95	ug/L	UD	8260B	0.95	5.0	5	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	106-46-7	71	1,4-Dichlorobenzene	11	ug/L	D	8260B	0.95	5.0	1	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	110-57-6	73	trans-1,4-Dichloro-2-butene	3.5	ug/L	UD	8260B	3.5	5.0	100	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	75-34-3	75	1,1-Dichloroethane	4.8	ug/L	JD	8260B	0.65	5.0	5	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	UD	8260B	1.0	5.0	1	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	75-35-4	77	1,1-Dichloroethene	1.0	ug/L	UD	8260B	1.0	5.0	5	5	1/23/2014	1/28/2014	1/28/2014	591

Table 1 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
January 23 and 24, 2014
S&ME Project No. 1054-13-276

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	MRL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-MW5	156-59-2	78	cis-1,2-Dichloroethene	310	ug/L	D	8260B	0.75	5.0	5	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	156-60-5	79	trans-1,2-Dichloroethene	3.1	ug/L	JD	8260B	1.0	5.0	5	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	107-13-1	8	Acrylonitrile	18	ug/L	UD	8260B	18	50	200	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	78-87-5	82	1,2-Dichloropropane	0.50	ug/L	UD	8260B	0.50	5.0	1	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	10061-01-5	86	cis-1,3-Dichloropropene	1.0	ug/L	UD	8260B	1.0	5.0	1	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW5	10061-02-6	87	trans-1,3-Dichloropropene	0.75	ug/L	UD	8260B	0.75	5.0	1	5	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-Duplicate	100-41-4	110	Ethylbenzene	0.65	ug/L	UD	8260B	0.65	5.0	1	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	591-78-6	124	2-Hexanone	4.4	ug/L	UD	8260B	4.4	25	50	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-Duplicate	7439-92-1	131	Lead Total	12.3	ug/L		6010C	2.10	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-Duplicate	74-83-9	136	Bromomethane	0.70	ug/L	UD	8260B	0.70	5.0	10	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	74-87-3	137	Chloromethane	0.65	ug/L	UD	8260B	0.65	5.0	1	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	74-95-3	139	Dibromomethane	1.4	ug/L	UD	8260B	1.4	5.0	10	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	7440-38-2	14	Arsenic Total	56.4	ug/L		6010C	5.40	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-Duplicate	75-09-2	140	Methylene chloride	1.2	ug/L	UD	8260B	1.2	5.0	1	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	78-93-3	141	2-Butanone	6.5	ug/L	UD	8260B	6.5	25	100	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	74-88-4	142	Iodomethane	8.5	ug/L	UD	8260B	8.5	25	10	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	108-10-1	147	4-Methyl-2-pentanone	5.5	ug/L	UD	8260B	5.5	25	100	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	7440-39-3	15	Barium Total	269	ug/L		6010C	1.00	10.0	100	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-Duplicate	7440-02-0	152	Nickel Total	59.2	ug/L		6010C	1.80	10.0	50	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-Duplicate	71-43-2	16	Benzene	4.8	ug/L	JD	8260B	0.75	5.0	1	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	7782-49-2	183	Selenium Total	0.910	ug/L	U	6020A	0.910	1.00	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-Duplicate	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-Duplicate	100-42-5	186	Styrene	0.55	ug/L	UD	8260B	0.55	5.0	1	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	630-20-6	190	1,1,1,2-Tetrachloroethane	0.85	ug/L	UD	8260B	0.85	5.0	5	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	79-34-5	191	1,1,2,2-Tetrachloroethane	1.4	ug/L	UD	8260B	1.4	5.0	3	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	127-18-4	192	Tetrachloroethene	0.85	ug/L	UD	8260B	0.85	5.0	1	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	7440-28-0	194	Thallium Total	0.128	ug/L	J	6020A	0.110	1.00	5.5	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-Duplicate	108-88-3	196	Toluene	0.70	ug/L	UD	8260B	0.70	5.0	1	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	71-55-6	200	1,1,1-Trichloroethane	0.60	ug/L	UD	8260B	0.60	5.0	1	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	79-01-6	201	Trichloroethene	0.75	ug/L	UD	8260B	0.75	5.0	1	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	79-00-5	202	1,1,2-Trichloroethane	0.70	ug/L	UD	8260B	0.70	5.0	1	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	75-69-4	203	Trichlorofluoromethane	1.2	ug/L	UD	8260B	1.2	5.0	1	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	96-18-4	206	1,2,3-Trichloropropane	1.2	ug/L	UD	8260B	1.2	5.0	1	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-Duplicate	108-05-4	210	Vinyl acetate	4.8	ug/L	UD	8260B	4.8	25	50	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	75-01-4	211	Vinyl chloride	24	ug/L	D	8260B	1.6	5.0	1	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	7440-66-6	213	Zinc Total	78.7	ug/L		6010C	3.80	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-Duplicate	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1.00	1	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-Duplicate	74-97-5	28	Bromochloromethane	2.4	ug/L	UD	8260B	2.4	5.0	3	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	75-27-4	29	Bromodichloromethane	0.85	ug/L	UD	8260B	0.85	5.0	1	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	67-64-1	3	Acetone	6.0	ug/L	UD	8260B	6.0	25	100	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	75-25-2	30	Bromoform	1.1	ug/L	UD	8260B	1.1	5.0	3	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-Duplicate	1330-20-7	346	Xylenes (Total)	2.2	ug/L	UD	8260B	2.2	15	5	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	75-15-0	35	Carbon disulfide	7.5	ug/L	UD	8260B	7.5	25	100	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	56-23-5	36	Carbon tetrachloride	0.85	ug/L	UD	8260B	0.85	5.0	1	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	108-90-7	39	Chlorobenzene	14	ug/L	D	8260B	0.85	5.0	3	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	75-00-3	41	Chloroethane	1.2	ug/L	UD	8260B	1.2	5.0	10	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	67-66-3	44	Chloroform	0.90	ug/L	UD	8260B	0.90	5.0	5	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	7440-47-3	51	Chromium Total	1.40	ug/L	U	6010C	1.40	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-Duplicate	7440-48-4	53	Cobalt Total	189	ug/L		6010C	1.10	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-Duplicate	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-Duplicate	124-48-1	66	Dibromochloromethane	0.85	ug/L	UD	8260B	0.85	5.0	3	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	96-12-8	67	1,2-Dibromo-3-chloropropane	2.4	ug/L	UD	8260B	2.4	5.0	13	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	106-93-4	68	1,2-Dibromoethane	3.3	ug/L	UD	8260B	3.3	5.0	1	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	95-50-1	69	1,2-Dichlorobenzene	0.95	ug/L	UD	8260B	0.95	5.0	5	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	106-46-7	71	1,4-Dichlorobenzene	11	ug/L	D	8260B	0.95	5.0	1	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	110-57-6	73	trans-1,4-Dichloro-2-butene	3.5	ug/L	UD	8260B	3.5	5.0	100	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	75-34-3	75	1,1-Dichloroethane	5.6	ug/L	D	8260B	0.65	5.0	5	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	UD	8260B	1.0	5.0	1	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	75-35-4	77	1,1-Dichloroethene	1.0	ug/L	UD	8260B	1.0	5.0	5	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	156-59-2	78	cis-1,2-Dichloroethene	370	ug/L	D	8260B	0.75	5.0	5	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	156-60-5	79	trans-1,2-Dichloroethene	3.6	ug/L	JD	8260B	1.0	5.0	5	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	107-13-1	8	Acrylonitrile	18	ug/L	UD	8260B	18	50	200	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	78-87-5	82	1,2-Dichloropropane	0.50	ug/L	UD	8260B	0.50	5.0	1	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	10061-01-5	86	cis-1,3-Dichloropropene	1.0	ug/L	UD	8260B	1.0	5.0	1	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-Duplicate	10061-02-6	87	trans-1,3-Dichloropropene	0.75	ug/L	UD	8260B	0.75	5.0	1	5	1/23/2014	1/31/2014	1/31/2014	591
33-01	3301-MW5D		318	Depth To Water	10.26	ft							1/23/2014			
33-01	3301-MW5D		411	Total Well Depth	41.63	ft							1/23/2014			
33-01	3301-MW5D		328	TOC Elevation	52.08	ft AMSL							1/23/2014			
33-01	3301-MW5D		319	Groundwater Elevation	41.82	ft AMSL							1/23/2014			
33-01	3301-MW5S		318	Depth To Water	8.68	ft							1/23/2014			
33-01	3301-MW5S		411	Total Well Depth	13.50	ft							1/23/2014			
33-01	3301-MW5S		328	TOC Elevation	50.54	ft AMSL							1/23/2014			
33-01	3301-MW5S		319	Groundwater Elevation	41.86	ft AMSL							1/23/2014			
33-01	3301-MW6		318	Depth To Water	3.42	ft.							1/24/2014			
33-01	3301-MW6		411	Total Well Depth	19.75	ft.							1/24/2014			
33-01	3301-MW6		328	TOC Elevation	46.29	ft AMSL							1/24/2014			
33-01	3301-MW6		319	Groundwater Elevation	42.87	ft AMSL							1/24/2014			
33-01	3301-MW6		320	pH	4.98	standard units							1/24/2014			
33-01	3301-MW6		323	Specific Conductivity	0.706	mS/cm							1/24/2014			
33-01	3301-MW6		325	Temperature	11.44	ºC							1/24/2014			
33-01	3301-MW6		330	Turbidity	6.9	NTUs							1/24/2014			
33-01	3301-MW6	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW6	7439-92-1	131	Lead Total	2.10	ug/L	U	6010C	2.10	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW6	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	7440-38-2	14	Arsenic Total	5.40	ug/L	U	6010C	5.40	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW6	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	7440-39-3	15	Barium Total	208	ug/L		6010C	1.00	10.0	100	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW6	7440-02-0	152	Nickel Total	9.12	ug/L	J	6010C	1.80	10.0	50	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW6	71-43-2	16	Benzene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	7782-49-2	183	Selenium Total	0.910	ug/L	U	6020A	0.910	1.00	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW6	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW6	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	1.00	5.5	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW6	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW6	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	75-01-4	211	Vinyl chloride	0.32	ug/L	U	8260B	0.32	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	7440-66-6	213	Zinc Total	43.4	ug/L		6010C	3.80	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW6	7440-41-7	23	Beryllium Total	0.123	ug/L	J	6010C	0.100	1.00	1	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW6	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW6	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	108-90-7	39	Chlorobenzene	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591

Table 1 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
January 23 and 24, 2014
S&ME Project No. 1054-13-276

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	MRL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-MW6	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	7440-47-3	51	Chromium Total	1.40	ug/L	U	6010C	1.40	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW6	7440-48-4	53	Cobalt Total	37.1	ug/L		6010C	1.10	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW6	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW6	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	106-46-7	71	1,4-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	75-34-3	75	1,1-Dichloroethane	0.13	ug/L	U	8260B	0.13	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	156-59-2	78	cis-1,2-Dichloroethene	0.15	ug/L	U	8260B	0.15	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW6	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A		318	Depth To Water	13.75	ft							1/24/2014			
33-01	3301-MW7A		411	Total Well Depth	26.94	ft							1/24/2014			
33-01	3301-MW7A		328	TOC Elevation	68.43	ft AMSL							1/24/2014			
33-01	3301-MW7A		319	Groundwater Elevation	54.68	ft AMSL							1/24/2014			
33-01	3301-MW7A		320	pH	5.93	standard units							1/24/2014			
33-01	3301-MW7A		323	Specific Conductivity	0.838	mS/cm							1/24/2014			
33-01	3301-MW7A		325	Temperature	15.64	ºC							1/24/2014			
33-01	3301-MW7A		330	Turbidity	9.9	NTUs							1/24/2014			
33-01	3301-MW7A	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW7A	7439-92-1	131	Lead Total	5.06	ug/L	J	6010C	2.10	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW7A	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	7440-38-2	14	Arsenic Total	22.9	ug/L		6010C	5.40	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW7A	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	7440-39-3	15	Barium Total	289	ug/L		6010C	1.00	10.0	100	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW7A	7440-02-0	152	Nickel Total	1.80	ug/L	U	6010C	1.80	10.0	50	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW7A	71-43-2	16	Benzene	2.0	ug/L		8260B	0.15	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	7782-49-2	183	Selenium Total	0.910	ug/L	U	6020A	0.910	1.00	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW7A	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW7A	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	1.00	5.5	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW7A	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW7A	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	75-01-4	211	Vinyl chloride	0.32	ug/L	U	8260B	0.32	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	7440-66-6	213	Zinc Total	6.75	ug/L	J	6010C	3.80	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW7A	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1.00	1	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW7A	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	7440-43-9	34	Cadmium Total	0.424	ug/L	J	6010C	0.360	1.00	1	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW7A	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	108-90-7	39	Chlorobenzene	2.8	ug/L	J	8260B	0.17	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	7440-47-3	51	Chromium Total	1.40	ug/L	U	6010C	1.40	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW7A	7440-48-4	53	Cobalt Total	1.10	ug/L	U	6010C	1.10	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW7A	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW7A	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	106-46-7	71	1,4-Dichlorobenzene	1.0	ug/L		8260B	0.19	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	75-34-3	75	1,1-Dichloroethane	0.13	ug/L	U	8260B	0.13	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	156-59-2	78	cis-1,2-Dichloroethene	0.15	ug/L	U	8260B	0.15	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW7A	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW8A		318	Depth To Water	9.83	ft							1/23/2014			
33-01	3301-MW8A		411	Total Well Depth	22.38	ft							1/23/2014			
33-01	3301-MW8A		328	TOC Elevation	82.34	ft AMSL							1/23/2014			
33-01	3301-MW8A		319	Groundwater Elevation	72.51	ft AMSL							1/23/2014			
33-01	3301-MW9		318	Depth To Water	4.86	ft							1/23/2014			
33-01	3301-MW9		411	Total Well Depth	16.85	ft							1/23/2014			
33-01	3301-MW9		328	TOC Elevation	72.41	ft AMSL							1/23/2014			
33-01	3301-MW9		319	Groundwater Elevation	67.55	ft AMSL							1/23/2014			
33-01	3301-MW9		320	pH	6.57	standard units							1/23/2014			
33-01	3301-MW9		323	Specific Conductivity	0.399	mS/cm							1/23/2014			
33-01	3301-MW9		325	Temperature	14.19	ºC							1/23/2014			
33-01	3301-MW9		330	Turbidity	9.8	NTUs							1/23/2014			
33-01	3301-MW9	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW9	7439-92-1	131	Lead Total	2.10	ug/L	U	6010C	2.10	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW9	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	7440-38-2	14	Arsenic Total	5.40	ug/L	U	6010C	5.40	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW9	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	7440-39-3	15	Barium Total	116	ug/L		6010C	1.00	10.0	100	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW9	7440-02-0	152	Nickel Total	1.80	ug/L	U	6010C	1.80	10.0	50	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW9	71-43-2	16	Benzene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	7782-49-2	183	Selenium Total	0.910	ug/L	U	6020A	0.910	1.00	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW9	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW9	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	1.00	5.5	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW9	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591

Table 1 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
January 23 and 24, 2014
S&ME Project No. 1054-13-276

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	MRL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-MW9	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW9	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	75-01-4	211	Vinyl chloride	0.32	ug/L	U	8260B	0.32	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	7440-66-6	213	Zinc Total	3.80	ug/L	U	6010C	3.80	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW9	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1.00	1	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW9	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW9	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	108-90-7	39	Chlorobenzene	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	7440-47-3	51	Chromium Total	1.40	ug/L	U	6010C	1.40	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW9	7440-48-4	53	Cobalt Total	1.10	ug/L	U	6010C	1.10	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW9	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW9	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	106-46-7	71	1,4-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	75-34-3	75	1,1-Dichloroethane	0.13	ug/L	U	8260B	0.13	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	156-59-2	78	cis-1,2-Dichloroethene	0.15	ug/L	U	8260B	0.15	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW9	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW10		318	Depth To Water	3.70	ft							1/23/2014			
33-01	3301-MW10		411	Total Well Depth	13.57	ft							1/23/2014			
33-01	3301-MW10		328	TOC Elevation	75.78	ft AMSL							1/23/2014			
33-01	3301-MW10		319	Groundwater Elevation	72.08	ft AMSL							1/23/2014			
33-01	3301-MW12		318	Depth To Water	6.35	ft							1/24/2014			
33-01	3301-MW12		411	Total Well Depth	12.68	ft							1/24/2014			
33-01	3301-MW12		328	TOC Elevation	51.24	ft AMSL							1/24/2014			
33-01	3301-MW12		319	Groundwater Elevation	44.89	ft AMSL							1/24/2014			
33-01	3301-MW12		320	pH	4.33	standard units							1/24/2014			
33-01	3301-MW12		323	Specific Conductivity	0.934	mS/cm							1/24/2014			
33-01	3301-MW12		325	Temperature	12.08	ºC							1/24/2014			
33-01	3301-MW12		330	Turbidity	9.9	NTUs							1/24/2014			
33-01	3301-MW12	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW12	7439-92-1	131	Lead Total	2.10	ug/L	U	6010C	2.10	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW12	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	7440-38-2	14	Arsenic Total	5.40	ug/L	U	6010C	5.40	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW12	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	7440-39-3	15	Barium Total	258	ug/L		6010C	1.00	10.0	100	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW12	7440-02-0	152	Nickel Total	18.1	ug/L	J	6010C	1.80	10.0	50	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW12	71-43-2	16	Benzene	3.5	ug/L		8260B	0.15	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	7782-49-2	183	Selenium Total	0.910	ug/L	U	6020A	0.910	1.00	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW12	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW12	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	7440-28-0	194	Thallium Total	0.152	ug/L	J	6020A	0.110	1.00	5.5	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW12	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW12	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	75-01-4	211	Vinyl chloride	0.32	ug/L	U	8260B	0.32	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	7440-66-6	213	Zinc Total	149	ug/L		6010C	3.80	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW12	7440-41-7	23	Beryllium Total	0.345	ug/L	J	6010C	0.100	1.00	1	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW12	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW12	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	108-90-7	39	Chlorobenzene	3.5	ug/L		8260B	0.17	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	7440-47-3	51	Chromium Total	1.40	ug/L	U	6010C	1.40	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW12	7440-48-4	53	Cobalt Total	15.1	ug/L		6010C	1.10	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW12	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW12	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	106-46-7	71	1,4-Dichlorobenzene	6.8	ug/L		8260B	0.19	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	75-34-3	75	1,1-Dichloroethane	0.98	ug/L	J	8260B	0.13	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	156-59-2	78	cis-1,2-Dichloroethene	0.54	ug/L	J	8260B	0.15	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW12	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW13		318	Depth To Water	6.25	ft							1/23/2014			
33-01	3301-MW13		411	Total Well Depth	23.00	ft							1/23/2014			
33-01	3301-MW13		328	TOC Elevation	54.99	ft AMSL							1/23/2014			
33-01	3301-MW13		319	Groundwater Elevation	48.74	ft AMSL							1/23/2014			
33-01	3301-MW13		320	pH	5.70	standard units							1/23/2014			
33-01	3301-MW13		323	Specific Conductivity	1.996	mS/cm							1/23/2014			
33-01	3301-MW13		325	Temperature	14.62	ºC							1/23/2014			
33-01	3301-MW13		330	Turbidity	9.9	NTUs							1/23/2014			
33-01	3301-MW13	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW13	7439-92-1	131	Lead Total	3.05	ug/L	J	6010C	2.10	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW13	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591

Table 1 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
January 23 and 24, 2014
S&ME Project No. 1054-13-276

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	MRL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-MW13	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	7440-38-2	14	Arsenic Total	5.40	ug/L	U	6010C	5.40	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW13	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	7440-39-3	15	Barium Total	256	ug/L		6010C	1.00	10.0	100	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW13	7440-02-0	152	Nickel Total	240	ug/L		6010C	1.80	10.0	50	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW13	71-43-2	16	Benzene	0.73	ug/L	J	8260B	0.15	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	7782-49-2	183	Selenium Total	0.910	ug/L	U	6020A	0.910	1.00	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW13	7440-22-4	184	Silver Total	5.57	ug/L	J	6010C	1.90	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW13	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	7440-28-0	194	Thallium Total	0.961	ug/L	J	6020A	0.110	1.00	5.5	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW13	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	79-01-6	201	Trichloroethene	0.60	ug/L	J	8260B	0.15	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW13	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	75-01-4	211	Vinyl chloride	1.5	ug/L		8260B	0.32	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	7440-66-6	213	Zinc Total	129	ug/L		6010C	3.80	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW13	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1.00	1	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW13	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW13	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	108-90-7	39	Chlorobenzene	7.3	ug/L		8260B	0.17	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	7440-47-3	51	Chromium Total	8.84	ug/L	J	6010C	1.40	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW13	7440-48-4	53	Cobalt Total	963	ug/L		6010C	1.10	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW13	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW13	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	106-46-7	71	1,4-Dichlorobenzene	1.6	ug/L		8260B	0.19	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	75-34-3	75	1,1-Dichloroethane	0.13	ug/L	U	8260B	0.13	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	156-59-2	78	cis-1,2-Dichloroethene	6.9	ug/L		8260B	0.15	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW13	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14		318	Depth To Water	4.14	ft							1/23/2014			
33-01	3301-MW14		411	Total Well Depth	14.63	ft							1/23/2014			
33-01	3301-MW14		328	TOC Elevation	43.88	ft AMSL							1/23/2014			
33-01	3301-MW14		319	Groundwater Elevation	39.74	ft AMSL							1/23/2014			
33-01	3301-MW14		320	pH	6.49	standard units							1/23/2014			
33-01	3301-MW14		323	Specific Conductivity	0.779	mS/cm							1/23/2014			
33-01	3301-MW14		325	Temperature	11.75	ºC							1/23/2014			
33-01	3301-MW14		330	Turbidity	4.3	NTUs							1/23/2014			
33-01	3301-MW14	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW14	7439-92-1	131	Lead Total	2.10	ug/L	U	6010C	2.10	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW14	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	7440-38-2	14	Arsenic Total	5.40	ug/L	U	6010C	5.40	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW14	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	7440-39-3	15	Barium Total	205	ug/L		6010C	1.00	10.0	100	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW14	7440-02-0	152	Nickel Total	1.80	ug/L	U	6010C	1.80	10.0	50	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW14	71-43-2	16	Benzene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	7782-49-2	183	Selenium Total	0.910	ug/L	U	6020A	0.910	1.00	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW14	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW14	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	1.00	5.5	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW14	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW14	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	75-01-4	211	Vinyl chloride	0.32	ug/L	U	8260B	0.32	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	7440-66-6	213	Zinc Total	3.80	ug/L	U	6010C	3.80	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW14	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1.00	1	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW14	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW14	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	108-90-7	39	Chlorobenzene	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	7440-47-3	51	Chromium Total	1.40	ug/L	U	6010C	1.40	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW14	7440-48-4	53	Cobalt Total	1.19	ug/L	J	6010C	1.10	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW14	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW14	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	106-46-7	71	1,4-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	75-34-3	75	1,1-Dichloroethane	0.13	ug/L	U	8260B	0.13	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	156-59-2	78	cis-1,2-Dichloroethene	0.15	ug/L	U	8260B	0.15	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW14	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591

Table 1 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
January 23 and 24, 2014
S&ME Project No. 1054-13-276

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	MRL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-MW15		318	Depth To Water	5.91	ft							1/23/2014			
33-01	3301-MW15		411	Total Well Depth	14.27	ft							1/23/2014			
33-01	3301-MW15		328	TOC Elevation	44.87	ft AMSL							1/23/2014			
33-01	3301-MW15		319	Groundwater Elevation	38.96	ft AMSL							1/23/2014			
33-01	3301-MW15		320	pH	6.14	standard units							1/23/2014			
33-01	3301-MW15		323	Specific Conductivity	1.586	mS/cm							1/23/2014			
33-01	3301-MW15		325	Temperature	12.30	ºC							1/23/2014			
33-01	3301-MW15		330	Turbidity	9.9	NTUs							1/23/2014			
33-01	3301-MW15	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW15	7439-92-1	131	Lead Total	2.10	ug/L	U	6010C	2.10	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW15	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	7440-38-2	14	Arsenic Total	8.20	ug/L	J	6010C	5.40	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW15	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	7440-39-3	15	Barium Total	341	ug/L		6010C	1.00	10.0	100	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW15	7440-02-0	152	Nickel Total	9.59	ug/L	J	6010C	1.80	10.0	50	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW15	71-43-2	16	Benzene	0.59	ug/L	J	8260B	0.15	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	7782-49-2	183	Selenium Total	0.910	ug/L	U	6020A	0.910	1.00	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW15	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW15	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	1.00	5.5	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW15	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW15	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	75-01-4	211	Vinyl chloride	3.6	ug/L		8260B	0.32	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	7440-66-6	213	Zinc Total	3.80	ug/L	U	6010C	3.80	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW15	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1.00	1	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW15	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW15	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	108-90-7	39	Chlorobenzene	1.6	ug/L	J	8260B	0.17	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	7440-47-3	51	Chromium Total	1.53	ug/L	J	6010C	1.40	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW15	7440-48-4	53	Cobalt Total	15.4	ug/L		6010C	1.10	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW15	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/23/2014	1/27/2014	1/30/2014	591
33-01	3301-MW15	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	106-46-7	71	1,4-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	75-34-3	75	1,1-Dichloroethane	0.58	ug/L	J	8260B	0.13	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	156-59-2	78	cis-1,2-Dichloroethene	9.9	ug/L		8260B	0.15	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	156-60-5	79	trans-1,2-Dichloroethene	0.43	ug/L	J	8260B	0.21	1.0	5	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	78-87-5	82	1,2-Dichloropropane	0.84	ug/L	J	8260B	0.10	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW15	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/23/2014	1/28/2014	1/28/2014	591
33-01	3301-MW16		318	Depth To Water	9.04	ft							1/24/2014			
33-01	3301-MW16		411	Total Well Depth	19.85	ft							1/24/2014			
33-01	3301-MW16		328	TOC Elevation	46.58	ft AMSL							1/24/2014			
33-01	3301-MW16		319	Groundwater Elevation	37.54	ft AMSL							1/24/2014			
33-01	3301-MW16		320	pH	5.90	standard units							1/24/2014			
33-01	3301-MW16		323	Specific Conductivity	0.583	mS/cm							1/24/2014			
33-01	3301-MW16		325	Temperature	14.26	ºC							1/24/2014			
33-01	3301-MW16		330	Turbidity	9.8	NTUs							1/24/2014			
33-01	3301-MW16	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW16	7439-92-1	131	Lead Total	2.10	ug/L	U	6010C	2.10	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW16	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	7440-38-2	14	Arsenic Total	8.39	ug/L	J	6010C	5.40	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW16	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	7440-39-3	15	Barium Total	310	ug/L		6010C	1.00	10.0	100	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW16	7440-02-0	152	Nickel Total	1.80	ug/L	U	6010C	1.80	10.0	50	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW16	71-43-2	16	Benzene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	7782-49-2	183	Selenium Total	0.910	ug/L	U	6020A	0.910	1.00	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW16	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW16	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	1.00	5.5	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW16	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW16	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	75-01-4	211	Vinyl chloride	0.32	ug/L	U	8260B	0.32	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	7440-66-6	213	Zinc Total	4.28	ug/L	J	6010C	3.80	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW16	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1.00	1	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW16	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	67-64-1	3	Acetone	1.2	ug/L	U	8260B	1.2	5.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW16	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	108-90-7	39	Chlorobenzene	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	7440-47-3	51	Chromium Total	1.40	ug/L	U	6010C	1.40	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW16	7440-48-4	53	Cobalt Total	1.83	ug/L	J	6010C	1.10	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW16	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	3301-MW16	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591

Table 1 (Submitted Electronically)
Groundwater Elevation Data, Field Parameters, and
Laboratory Analysis Summary
Edgecombe County Landfill
January 23 and 24, 2014
S&ME Project No. 1054-13-276

Facility Permit	Well ID	CAS Number	SWS ID	Parameter	Result	Units	Qualifier	Method	MDL	MRL	SWSL	Dilution Factor	Collection Date	Extraction Date	Analysis Date	NC Laboratory Certification Number
33-01	3301-MW16	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	106-46-7	71	1,4-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	75-34-3	75	1,1-Dichloroethane	0.13	ug/L	U	8260B	0.13	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	156-59-2	78	cis-1,2-Dichloroethene	0.15	ug/L	U	8260B	0.15	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	3301-MW16	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	100-41-4	110	Ethylbenzene	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	591-78-6	124	2-Hexanone	0.88	ug/L	U	8260B	0.88	5.0	50	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	7440-36-0	13	Antimony Total	0.220	ug/L	U	6020A	0.220	2.00	6	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	301-EquipmentBlan	7439-92-1	131	Lead Total	2.10	ug/L	U	6010C	2.10	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	301-EquipmentBlan	74-83-9	136	Bromomethane	0.14	ug/L	U	8260B	0.14	1.0	10	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	74-87-3	137	Chloromethane	0.13	ug/L	U	8260B	0.13	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	74-95-3	139	Dibromomethane	0.27	ug/L	U	8260B	0.27	1.0	10	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	7440-38-2	14	Arsenic Total	5.40	ug/L	U	6010C	5.40	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	301-EquipmentBlan	75-09-2	140	Methylene chloride	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	78-93-3	141	2-Butanone	1.3	ug/L	U	8260B	1.3	5.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	74-88-4	142	Iodomethane	1.7	ug/L	U	8260B	1.7	5.0	10	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	108-10-1	147	4-Methyl-2-pentanone	1.1	ug/L	U	8260B	1.1	5.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	7440-39-3	15	Barium Total	1.32	ug/L	J	6010C	1.00	10.0	100	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	301-EquipmentBlan	7440-02-0	152	Nickel Total	1.80	ug/L	U	6010C	1.80	10.0	50	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	301-EquipmentBlan	71-43-2	16	Benzene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	7782-49-2	183	Selenium Total	0.910	ug/L	U	6020A	0.910	1.00	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	301-EquipmentBlan	7440-22-4	184	Silver Total	1.90	ug/L	U	6010C	1.90	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	301-EquipmentBlan	100-42-5	186	Styrene	0.11	ug/L	U	8260B	0.11	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	630-20-6	190	1,1,1,2-Tetrachloroethane	0.17	ug/L	U	8260B	0.17	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	79-34-5	191	1,1,2,2-Tetrachloroethane	0.28	ug/L	U	8260B	0.28	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	127-18-4	192	Tetrachloroethene	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	7440-28-0	194	Thallium Total	0.110	ug/L	U	6020A	0.110	1.00	5.5	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	301-EquipmentBlan	108-88-3	196	Toluene	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	71-55-6	200	1,1,1-Trichloroethane	0.12	ug/L	U	8260B	0.12	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	79-01-6	201	Trichloroethene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	79-00-5	202	1,1,2-Trichloroethane	0.14	ug/L	U	8260B	0.14	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	75-69-4	203	Trichlorofluoromethane	0.24	ug/L	U	8260B	0.24	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	96-18-4	206	1,2,3-Trichloropropane	0.23	ug/L	U	8260B	0.23	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	7440-62-2	209	Vanadium Total	1.40	ug/L	U	6010C	1.40	10.0	25	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	301-EquipmentBlan	108-05-4	210	Vinyl acetate	0.95	ug/L	U	8260B	0.95	5.0	50	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	75-01-4	211	Vinyl chloride	0.32	ug/L	U	8260B	0.32	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	7440-66-6	213	Zinc Total	3.80	ug/L	U	6010C	3.80	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	301-EquipmentBlan	7440-41-7	23	Beryllium Total	0.100	ug/L	U	6010C	0.100	1.00	1	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	301-EquipmentBlan	74-97-5	28	Bromochloromethane	0.48	ug/L	U	8260B	0.48	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	75-27-4	29	Bromodichloromethane	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	67-64-1	3	Acetone	11	ug/L	J	8260B	1.2	5.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	75-25-2	30	Bromoform	0.22	ug/L	U	8260B	0.22	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	7440-43-9	34	Cadmium Total	0.360	ug/L	U	6010C	0.360	1.00	1	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	301-EquipmentBlan	1330-20-7	346	Xylenes (Total)	0.45	ug/L	U	8260B	0.45	3.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	75-15-0	35	Carbon disulfide	1.5	ug/L	U	8260B	1.5	5.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	56-23-5	36	Carbon tetrachloride	0.17	ug/L	U	8260B	0.17	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	108-90-7	39	Chlorobenzene	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	75-00-3	41	Chloroethane	0.23	ug/L	U	8260B	0.23	1.0	10	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	67-66-3	44	Chloroform	0.18	ug/L	U	8260B	0.18	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	7440-47-3	51	Chromium Total	1.40	ug/L	U	6010C	1.40	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	301-EquipmentBlan	7440-48-4	53	Cobalt Total	1.10	ug/L	U	6010C	1.10	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	301-EquipmentBlan	7440-50-8	54	Copper Total	1.60	ug/L	U	6010C	1.60	10.0	10	1	1/24/2014	1/27/2014	1/30/2014	591
33-01	301-EquipmentBlan	124-48-1	66	Dibromochloromethane	0.17	ug/L	U	8260B	0.17	1.0	3	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	96-12-8	67	1,2-Dibromo-3-chloropropane	0.48	ug/L	U	8260B	0.48	1.0	13	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	106-93-4	68	1,2-Dibromoethane	0.66	ug/L	U	8260B	0.66	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	95-50-1	69	1,2-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	106-46-7	71	1,4-Dichlorobenzene	0.19	ug/L	U	8260B	0.19	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	110-57-6	73	trans-1,4-Dichloro-2-butene	0.70	ug/L	U	8260B	0.70	1.0	100	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	75-34-3	75	1,1-Dichloroethane	0.13	ug/L	U	8260B	0.13	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	107-06-2	76	1,2-Dichloroethane	0.21	ug/L	U	8260B	0.21	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	75-35-4	77	1,1-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	156-59-2	78	cis-1,2-Dichloroethene	0.15	ug/L	U	8260B	0.15	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	156-60-5	79	trans-1,2-Dichloroethene	0.21	ug/L	U	8260B	0.21	1.0	5	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	107-13-1	8	Acrylonitrile	3.5	ug/L	U	8260B	3.5	10	200	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	78-87-5	82	1,2-Dichloropropane	0.10	ug/L	U	8260B	0.10	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	10061-01-5	86	cis-1,3-Dichloropropene	0.20	ug/L	U	8260B	0.20	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591
33-01	301-EquipmentBlan	10061-02-6	87	trans-1,3-Dichloropropene	0.15	ug/L	U	8260B	0.15	1.0	1	1	1/24/2014	1/31/2014	1/31/2014	591

NOTES:
NM = Not Measured
U = Compound detected below laboratory method detection limit.
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
January 23 & 24, 2014 Sampling Event
S&ME Project No. 1054-13-276

APPENDIX I VOCs EPA METHOD 8260B	UNITS	2L STANDARD	BACKGROUND MONITOR WELLS			COMPLIANCE MONITOR WELLS								QUALITY CONTROL			SURFACE WATER		SWSL	Expected Metals Concentration in Groundwater from DAF Computation
			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	UPSTREAM (SW-1)	DOWNSTREAM (SW-2)		
Acetone	ug/l	6,000	<1.2	<1.2	<1.2	<6.0	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<6.0	**11**	<1.2	<1.2	**4.6J**	100	
Benzene	µg/l	1	<0.15	<0.15	<0.15	**4.8 JD**	<0.15	**2.0**	**3.5**	**0.73 J**	<0.15	**0.59 J**	<0.15	**4.8 JD**	<0.15	<0.15	<0.15	<0.15	1	
Chlorobenzene	µg/l	50	<0.17	<0.17	<0.17	**16 D**	<0.17	**2.8 J**	**3.5**	**7.3**	<0.17	**1.6 J**	<0.17	**14 D**	<0.17	<0.17	<0.17	<0.17	3	
Chloroethane	µg/l	3,000	<0.23	<0.23	<0.23	<1.2	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<1.2	<0.23	<0.23	<0.23	<0.23	10	
1,4-Dichlorobenzene	µg/l	6	<0.19	<0.19	<0.19	**11 D**	<0.19	**1.0**	**6.8**	**1.6**	<0.19	<0.19	<0.19	**11 D**	<0.19	<0.19	<0.19	<0.19	1	
1,1-Dichloroethane	µg/l	6	<0.13	<0.13	<0.13	**4.8 JD**	<0.13	<0.13	**0.98 J**	<0.13	<0.13	**0.58 J**	<0.13	**5.6 D**	<0.13	<0.13	<0.13	<0.13	5	
cis-1,2-Dichloroethene	µg/l	70	<0.15	<0.15	<0.15	**310 D**	<0.15	<0.15	**0.54 J**	**6.9**	<0.15	**9.9**	<0.15	**370 D**	<0.15	<0.15	<0.15	<0.15	5	
trans-1,2-Dichloroethene	µg/l	100	<0.21	<0.21	<0.21	**3.1 JD**	<0.21	<0.21	<0.21	<0.21	<0.21	**0.43 J**	<0.21	**3.6 JD**	<0.21	<0.21	<0.21	<0.21	5	
1,2-Dichloropropane	µg/l	0.6	<0.10	<0.10	<0.10	<0.5	<0.10	<0.10	<0.10	<0.10	<0.10	**0.84 J**	<0.10	<0.5	<0.10	<0.10	<0.10	<0.10	1	
Methylene chloride	µg/l	5	<0.23	<0.23	<0.23	<1.2	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<1.2	<0.23	<0.23	<0.23	<0.23	1	
Trichloroethene	µg/l	3	<0.15	<0.15	<0.15	<0.75	<0.15	<0.15	<0.15	**0.6 J**	<0.15	<0.15	<0.15	<0.75	<0.15	<0.15	<0.15	<0.15	1	
Vinyl chloride	µg/l	0.03	<0.32	<0.32	<0.32	**25 D**	<0.32	<0.32	<0.32	**1.5**	<0.32	**3.6**	<0.32	**24 D**	<0.32	<0.32	<0.32	<0.32	1	
APP. I INORGANIC COMPOUNDS EPA METHOD 6010B	**UNITS**	**2L STANDARD**	**BACKGROUND MONITOR WELLS**			**COMPLIANCE MONITOR WELLS**								**QUALITY CONTROL**			**SURFACE WATER**		**SWSL**	
			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	UPSTREAM (SW-1)	DOWNSTREAM (SW-2)		
Antimony (Total)	µg/l	1*	<.22	**1.52 J**	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	NS	<0.22	<0.22	6	NA
Arsenic (Total)	µg/l	10	<5.4	<5.4	<5.4	**51.1**	<2.8	**22.9**	<5.4	<5.4	<5.4	**8.2 J**	**8.39 J**	**56.4**	<2.8	NS	<2.8	<2.8	10	30
Barium (Total)	µg/l	700	**65.5 J**	**72.1 J**	**116**	**268**	**208**	**289**	**258**	**256**	**205**	**341**	**310**	**269**	**1.32 J**	NS	**66.2 J**	**59.7 J**	100	178
Beryllium (Total)	µg/l	4*	**0.159 J**	**0.112 J**	<0.1	<0.1	**0.123 J**	<0.1	**0.345 J**	**8.84 J**	<0.1	<0.1	<0.1	<0.1	<0.1	NS	<0.10	<0.10	1	2.5
Cadmium (Total)	µg/l	2	<0.36	<0.36	<0.36	<0.36	<0.36	**0.424 J**	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	NS	<0.36	<0.36	1	2.56
Chromium (Total)	µg/l	10	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	**1.53 J**	<1.4	<1.4	<1.4	NS	<1.4	<1.4	10	95
Cobalt (Total)	µg/l	1*	**5.11 J**	<1.1	<1.1	**190**	**37.1**	<1.1	**15.1**	**963**	**1.19 J**	**15.4**	**1.83 J**	**189**	<1.1	NS	**1.88 J**	**1.43 J**	10	61
Copper (Total)	µg/l	1,000	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	NS	<1.6	<1.6	10	31
Lead (Total)	µg/l	15	<2.1	<2.1	<2.1	**9.65 J**	<2.1	**5.06 J**	<2.1	**3.05 J**	<2.1	<2.1	<2.1	**12.3**	<2.1	NS	<2.1	<2.1	10	54
Nickel (Total)	µg/l	100	**3.33 J**	<1.8	<1.8	**59.8**	**9.12 J**	<1.8	**18.1 J**	**240**	<1.8	**9.59 J**	<1.8	**59.2**	<1.8	NS	<1.8	<1.8	50	34
Selenium (Total)	µg/l	20	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	NS	<0.91	<0.91	10	12
Silver (Total)	µg/l	20	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	**5.57 J**	<1.9	<1.9	<1.9	<1.9	<1.9	NS	<1.9	<1.9	10	NA
Thallium (Total)	µg/l	0.28*	**0.194 J**	<0.11	<0.11	**0.149 J**	<0.11	<0.11	**0.152 J**	**0.961 J**	<0.11	<0.11	<0.11	**0.128 J**	<0.11	NS	<0.11	<0.11	5.5	0.72
Vanadium (Total)	µg/l	0.3*	<1.4	**1.4 J**	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	NS	<1.4	<1.4	25	100
Zinc (Total)	µg/l	1,000	**7.04 J**	**4.9 J**	<3.8	**80**	**43.4**	**6.75 J**	**149**	**129**	<3.8	<3.8	**4.28 J**	**78.7**	<3.8	NS	**11.3**	**10.4**	10	64

NOTES:
Samples were collected on January 23 and 24, 2014 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 Computation = 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.
NS = Not Sampled for this parameter.
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.

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

Monday, February 3, 2014

S&ME, Inc. (SM001)

Attn: Sam Watts

3201 Spring Forest Road

Raleigh, NC 27616

RE: Laboratory Results for
Project Number: 1054-13-276-P2, Project Name/Desc: Edgecombe County Landfill - App I
ENCO Workorder(s): C400184

Dear Sam Watts,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, January 24, 2014.

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

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 64.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 3301-MW3B | **Lab ID: C400184-01** | **Sampled: 01/23/14 11:14** | **Received: 01/24/14 16:45**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	07/22/14	01/27/14	12:50	1/30/2014 12:41
EPA 6020A	07/22/14	01/27/14	12:48	1/30/2014 14:33
EPA 8260B	02/06/14	01/27/14	11:55	1/28/2014 07:50

Client ID: 3301-MW4 | **Lab ID: C400184-02** | **Sampled: 01/23/14 10:44** | **Received: 01/24/14 16:45**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	07/22/14	01/27/14	12:50	1/30/2014 12:53
EPA 6020A	07/22/14	01/27/14	12:48	1/30/2014 14:05
EPA 8260B	02/06/14	01/28/14	14:40	1/28/2014 16:47

Client ID: 3301-MW5 | **Lab ID: C400184-03** | **Sampled: 01/23/14 15:40** | **Received: 01/24/14 16:45**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	07/22/14	01/27/14	12:50	1/30/2014 12:56
EPA 6020A	07/22/14	01/27/14	12:48	1/30/2014 14:37
EPA 8260B	02/06/14	01/28/14	14:40	1/28/2014 17:16

Client ID: 3301-MW6 | **Lab ID: C400184-04** | **Sampled: 01/24/14 11:40** | **Received: 01/24/14 16:45**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	07/23/14	01/27/14	12:50	1/30/2014 12:59
EPA 6020A	07/23/14	01/27/14	12:48	1/30/2014 14:41
EPA 8260B	02/07/14	01/31/14	11:22	1/31/2014 20:57

Client ID: 3301-MW7A | **Lab ID: C400184-05** | **Sampled: 01/24/14 10:15** | **Received: 01/24/14 16:45**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	07/23/14	01/27/14	12:50	1/30/2014 13:01
EPA 6020A	07/23/14	01/27/14	12:48	1/30/2014 14:45
EPA 8260B	02/07/14	01/31/14	11:22	1/31/2014 21:26

Client ID: 3301-MW9 | **Lab ID: C400184-06** | **Sampled: 01/23/14 12:08** | **Received: 01/24/14 16:45**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	07/22/14	01/27/14	12:50	1/30/2014 13:14
EPA 6020A	07/22/14	01/27/14	12:48	1/30/2014 14:49
EPA 8260B	02/06/14	01/28/14	14:40	1/28/2014 17:46

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Client ID: 3301-MW12 | **Lab ID: C400184-07** | **Sampled: 01/24/14 11:05** | **Received: 01/24/14 16:45**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/23/14	01/27/14 12:50	1/30/2014 13:17
EPA 6020A	07/23/14	01/27/14 12:48	1/30/2014 14:53
EPA 8260B	02/07/14	01/31/14 11:22	1/31/2014 21:56

Client ID: 3301-MW13 | **Lab ID: C400184-08** | **Sampled: 01/23/14 14:46** | **Received: 01/24/14 16:45**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/22/14	01/27/14 12:50	1/30/2014 13:19
EPA 6020A	07/22/14	01/27/14 12:48	1/30/2014 14:57
EPA 8260B	02/06/14	01/28/14 14:40	1/28/2014 18:16

Client ID: 3301-MW14 | **Lab ID: C400184-09** | **Sampled: 01/23/14 15:20** | **Received: 01/24/14 16:45**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/22/14	01/27/14 12:50	1/30/2014 13:22
EPA 6020A	07/22/14	01/27/14 12:48	1/30/2014 15:01
EPA 8260B	02/06/14	01/28/14 14:40	1/28/2014 18:45

Client ID: 3301-MW15 | **Lab ID: C400184-10** | **Sampled: 01/23/14 16:30** | **Received: 01/24/14 16:45**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/22/14	01/27/14 12:50	1/30/2014 13:25
EPA 6020A	07/22/14	01/27/14 12:48	1/30/2014 15:04
EPA 8260B	02/06/14	01/28/14 14:40	1/28/2014 19:15

Client ID: 3301-MW16 | **Lab ID: C400184-11** | **Sampled: 01/24/14 13:55** | **Received: 01/24/14 16:45**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/23/14	01/27/14 12:50	1/30/2014 13:27
EPA 6020A	07/23/14	01/27/14 12:48	1/30/2014 15:17
EPA 8260B	02/07/14	01/31/14 11:22	1/31/2014 22:25

Client ID: 3301-SW1 | **Lab ID: C400184-12** | **Sampled: 01/24/14 12:00** | **Received: 01/24/14 16:45**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/23/14	01/27/14 12:50	1/30/2014 13:30
EPA 6020A	07/23/14	01/27/14 12:48	1/30/2014 15:21
EPA 8260B	02/07/14	01/31/14 11:22	1/31/2014 22:55

Client ID: 3301-SW2 | **Lab ID: C400184-13** | **Sampled: 01/24/14 13:30** | **Received: 01/24/14 16:45**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/23/14	01/27/14 12:50	1/30/2014 13:32
EPA 6020A	07/23/14	01/27/14 12:48	1/30/2014 15:25
EPA 8260B	02/07/14	01/31/14 11:22	1/31/2014 23:24

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Client ID: 3301-Duplicate	Lab ID: C400184-14	Sampled: 01/23/14 10:44	Received: 01/24/14 16:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/22/14	01/27/14 12:50	1/30/2014 13:35
EPA 6020A	07/22/14	01/27/14 12:48	1/30/2014 15:29

Client ID: 3301-Duplicate	Lab ID: C400184-14RE1	Sampled: 01/23/14 10:44	Received: 01/24/14 16:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	02/06/14	01/31/14 11:22	1/31/2014 20:28

Client ID: 3301-EquipmentBlank	Lab ID: C400184-15	Sampled: 01/24/14 14:15	Received: 01/24/14 16:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	07/23/14	01/27/14 12:50	1/30/2014 13:38
EPA 6020A	07/23/14	01/27/14 12:48	1/30/2014 15:33
EPA 8260B	02/07/14	01/31/14 11:22	1/31/2014 23:54

Client ID: 3301-TripBlank	Lab ID: C400184-16	Sampled: 01/23/14 10:44	Received: 01/24/14 16:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	02/06/14	01/28/14 14:40	1/28/2014 20:14

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 3301-MW3B **Lab ID: C400184-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	65.5	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.159	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cobalt - Total	5.11	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	3.33	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Thallium - Total	0.194	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Zinc - Total	7.04	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW4 **Lab ID: C400184-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	1.52	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	72.1	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.112	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Vanadium - Total	1.40	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	4.90	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW5 **Lab ID: C400184-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	4.8	JD	5	0.65	5.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	11	D	5	0.95	5.0	1	ug/L	EPA 8260B	
Arsenic - Total	51.1		1	5.40	10.0	10	ug/L	EPA 6010C	
Barium - Total	268		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	4.8	JD	5	0.75	5.0	1	ug/L	EPA 8260B	
Chlorobenzene	16	D	5	0.85	5.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	310	D	5	0.75	5.0	5	ug/L	EPA 8260B	
Cobalt - Total	190		1	1.10	10.0	10	ug/L	EPA 6010C	
Lead - Total	9.65	J	1	2.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	59.8		1	1.80	10.0	50	ug/L	EPA 6010C	
Thallium - Total	0.149	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
trans-1,2-Dichloroethene	3.1	JD	5	1.0	5.0	5	ug/L	EPA 8260B	
Vinyl chloride	25	D	5	1.6	5.0	1	ug/L	EPA 8260B	
Zinc - Total	80.0		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW6 **Lab ID: C400184-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	208		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.123	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cobalt - Total	37.1		1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	9.12	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Zinc - Total	43.4		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW7A **Lab ID: C400184-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	1.0		1	0.19	1.0	1	ug/L	EPA 8260B	
Arsenic - Total	22.9		1	5.40	10.0	10	ug/L	EPA 6010C	
Barium - Total	289		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	2.0		1	0.15	1.0	1	ug/L	EPA 8260B	
Cadmium - Total	0.424	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chlorobenzene	2.8	J	1	0.17	1.0	3	ug/L	EPA 8260B	

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Client ID: 3301-MW7A **Lab ID: C400184-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Lead - Total	5.06	J	1	2.10	10.0	10	ug/L	EPA 6010C	
Zinc - Total	6.75	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW9 **Lab ID: C400184-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	116		1	1.00	10.0	100	ug/L	EPA 6010C	

Client ID: 3301-MW12 **Lab ID: C400184-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.98	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	6.8		1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	258		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	3.5		1	0.15	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.345	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chlorobenzene	3.5		1	0.17	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	0.54	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	15.1		1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	18.1	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Thallium - Total	0.152	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Zinc - Total	149		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW13 **Lab ID: C400184-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	1.6		1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	256		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.73	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	7.3		1	0.17	1.0	3	ug/L	EPA 8260B	
Chromium - Total	8.84	J	1	1.40	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	6.9		1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	963		1	1.10	10.0	10	ug/L	EPA 6010C	
Lead - Total	3.05	J	1	2.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	240		1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	5.57	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Thallium - Total	0.961	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Trichloroethene	0.60	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Vinyl chloride	1.5		1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	129		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW14 **Lab ID: C400184-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	205		1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	1.19	J	1	1.10	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-MW15 **Lab ID: C400184-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.58	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,2-Dichloropropane	0.84	J	1	0.10	1.0	1	ug/L	EPA 8260B	
Arsenic - Total	8.20	J	1	5.40	10.0	10	ug/L	EPA 6010C	
Barium - Total	341		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.59	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	1.6	J	1	0.17	1.0	3	ug/L	EPA 8260B	

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Client ID: 3301-MW15 **Lab ID: C400184-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chromium - Total	1.53	J	1	1.40	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	9.9		1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	15.4		1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	9.59	J	1	1.80	10.0	50	ug/L	EPA 6010C	
trans-1,2-Dichloroethene	0.43	J	1	0.21	1.0	5	ug/L	EPA 8260B	
Vinyl chloride	3.6		1	0.32	1.0	1	ug/L	EPA 8260B	

Client ID: 3301-MW16 **Lab ID: C400184-11**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	8.39	J	1	5.40	10.0	10	ug/L	EPA 6010C	
Barium - Total	310		1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	1.83	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Zinc - Total	4.28	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-SW1 **Lab ID: C400184-12**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	66.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	1.88	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Zinc - Total	11.3		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-SW2 **Lab ID: C400184-13**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	59.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	1.43	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Zinc - Total	10.4		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-Duplicate **Lab ID: C400184-14**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	56.4		1	5.40	10.0	10	ug/L	EPA 6010C	
Barium - Total	269		1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	189		1	1.10	10.0	10	ug/L	EPA 6010C	
Lead - Total	12.3		1	2.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	59.2		1	1.80	10.0	50	ug/L	EPA 6010C	
Thallium - Total	0.128	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Zinc - Total	78.7		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 3301-Duplicate **Lab ID: C400184-14RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	5.6	D	5	0.65	5.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	11	D	5	0.95	5.0	1	ug/L	EPA 8260B	
Benzene	4.8	JD	5	0.75	5.0	1	ug/L	EPA 8260B	
Chlorobenzene	14	D	5	0.85	5.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	370	D	5	0.75	5.0	5	ug/L	EPA 8260B	
trans-1,2-Dichloroethene	3.6	JD	5	1.0	5.0	5	ug/L	EPA 8260B	
Vinyl chloride	24	D	5	1.6	5.0	1	ug/L	EPA 8260B	

Client ID: 3301-EquipmentBlank **Lab ID: C400184-15**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	11	J	1	1.2	5.0	100	ug/L	EPA 8260B	
Barium - Total	1.32	J	1	1.00	10.0	100	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

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

Lab Sample ID: C400184-01
Sampled: 01/23/14 11:14
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/28/14 07:50	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/28/14 07:50	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/28/14 07:50	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/28/14 07:50	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	01/28/14 07:50	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/28/14 07:50	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/28/14 07:50	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/28/14 07:50	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/28/14 07:50	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/28/14 07:50	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/28/14 07:50	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/28/14 07:50	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/28/14 07:50	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/28/14 07:50	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/28/14 07:50	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/28/14 07:50	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/28/14 07:50	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/28/14 07:50	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/28/14 07:50	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/28/14 07:50	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/28/14 07:50	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/28/14 07:50	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/28/14 07:50	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/28/14 07:50	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/28/14 07:50	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/28/14 07:50	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/28/14 07:50	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/28/14 07:50	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/28/14 07:50	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/28/14 07:50	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/28/14 07:50	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/28/14 07:50	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/28/14 07:50	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/28/14 07:50	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/28/14 07:50	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/28/14 07:50	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/28/14 07:50	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/28/14 07:50	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/28/14 07:50	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/28/14 07:50	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/28/14 07:50	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/28/14 07:50	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/28/14 07:50	REF	

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

Lab Sample ID: C400184-01
Sampled: 01/23/14 11:14
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/28/14 07:50	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/28/14 07:50	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/28/14 07:50	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	01/28/14 07:50	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*78 %*	*51-122*	*4A27023*	*EPA 8260B*	*01/28/14 07:50*	*REF*	
Dibromofluoromethane	*34*	*1*	*50.0*	*69 %*	*68-117*	*4A27023*	*EPA 8260B*	*01/28/14 07:50*	*REF*	
Toluene-d8	*40*	*1*	*50.0*	*80 %*	*67-127*	*4A27023*	*EPA 8260B*	*01/28/14 07:50*	*REF*	

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

Lab Sample ID: C400184-01
Sampled: 01/23/14 11:14
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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	01/30/14 14:33	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	01/30/14 12:41	JDH	
Barium [7440-39-3] ^	**65.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	01/30/14 12:41	JDH	
Beryllium [7440-41-7] ^	**0.159**	J	ug/L	1	0.100	1.00	1	EPA 6010C	01/30/14 12:41	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/30/14 12:41	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	01/30/14 12:41	JDH	
Cobalt [7440-48-4] ^	**5.11**	J	ug/L	1	1.10	10.0	10	EPA 6010C	01/30/14 12:41	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/30/14 12:41	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	01/30/14 12:41	JDH	
Nickel [7440-02-0] ^	**3.33**	J	ug/L	1	1.80	10.0	50	EPA 6010C	01/30/14 12:41	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	1.00	10	EPA 6020A	01/30/14 14:33	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/30/14 12:41	JDH	
Thallium [7440-28-0] ^	**0.194**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/30/14 14:33	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/30/14 12:41	JDH	
Zinc [7440-66-6] ^	**7.04**	J	ug/L	1	3.80	10.0	10	EPA 6010C	01/30/14 12:41	JDH	

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

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Description: 3301-MW4
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-02
Sampled: 01/23/14 10:44
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/28/14 16:47	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/28/14 16:47	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/28/14 16:47	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/28/14 16:47	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	01/28/14 16:47	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/28/14 16:47	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/28/14 16:47	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/28/14 16:47	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/28/14 16:47	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/28/14 16:47	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/28/14 16:47	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/28/14 16:47	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/28/14 16:47	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/28/14 16:47	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/28/14 16:47	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/28/14 16:47	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/28/14 16:47	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/28/14 16:47	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/28/14 16:47	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/28/14 16:47	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/28/14 16:47	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/28/14 16:47	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/28/14 16:47	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/28/14 16:47	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/28/14 16:47	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/28/14 16:47	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/28/14 16:47	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/28/14 16:47	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/28/14 16:47	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/28/14 16:47	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/28/14 16:47	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/28/14 16:47	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/28/14 16:47	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/28/14 16:47	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/28/14 16:47	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/28/14 16:47	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/28/14 16:47	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/28/14 16:47	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/28/14 16:47	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/28/14 16:47	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/28/14 16:47	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/28/14 16:47	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/28/14 16:47	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/28/14 16:47	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/28/14 16:47	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/28/14 16:47	REF	

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Description: 3301-MW4
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-02
Sampled: 01/23/14 10:44
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	01/28/14 16:47	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*40*	*1*	*50.0*	*79 %*	*51-122*	*4A28030*	*EPA 8260B*	*01/28/14 16:47*	*REF*	
Dibromofluoromethane	*36*	*1*	*50.0*	*72 %*	*68-117*	*4A28030*	*EPA 8260B*	*01/28/14 16:47*	*REF*	
Toluene-d8	*40*	*1*	*50.0*	*80 %*	*67-127*	*4A28030*	*EPA 8260B*	*01/28/14 16:47*	*REF*	

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Description: 3301-MW4
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-02
Sampled: 01/23/14 10:44
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	**1.52**	J	ug/L	1	0.220	2.00	6	EPA 6020A	01/30/14 14:05	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	01/30/14 12:53	JDH	
Barium [7440-39-3] ^	**72.1**	J	ug/L	1	1.00	10.0	100	EPA 6010C	01/30/14 12:53	JDH	
Beryllium [7440-41-7] ^	**0.112**	J	ug/L	1	0.100	1.00	1	EPA 6010C	01/30/14 12:53	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/30/14 12:53	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	01/30/14 12:53	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	01/30/14 12:53	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/30/14 12:53	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	01/30/14 12:53	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	01/30/14 12:53	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	1.00	10	EPA 6020A	01/30/14 14:05	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/30/14 12:53	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/30/14 14:05	VLO	
Vanadium [7440-62-2] ^	**1.40**	J	ug/L	1	1.40	10.0	25	EPA 6010C	01/30/14 12:53	JDH	
Zinc [7440-66-6] ^	**4.90**	J	ug/L	1	3.80	10.0	10	EPA 6010C	01/30/14 12:53	JDH	

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

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

Lab Sample ID: C400184-03
Sampled: 01/23/14 15:40
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.85	UD	ug/L	5	0.85	5.0	5	EPA 8260B	01/28/14 17:16	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.60	UD	ug/L	5	0.60	5.0	1	EPA 8260B	01/28/14 17:16	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	1.4	UD	ug/L	5	1.4	5.0	3	EPA 8260B	01/28/14 17:16	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.70	UD	ug/L	5	0.70	5.0	1	EPA 8260B	01/28/14 17:16	REF	
1,1-Dichloroethane [75-34-3] ^	**4.8**	JD	ug/L	5	0.65	5.0	5	EPA 8260B	01/28/14 17:16	REF	
1,1-Dichloroethene [75-35-4] ^	1.0	UD	ug/L	5	1.0	5.0	5	EPA 8260B	01/28/14 17:16	REF	
1,2,3-Trichloropropane [96-18-4] ^	1.2	UD	ug/L	5	1.2	5.0	1	EPA 8260B	01/28/14 17:16	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	2.4	UD	ug/L	5	2.4	5.0	13	EPA 8260B	01/28/14 17:16	REF	
1,2-Dibromoethane [106-93-4] ^	3.3	UD	ug/L	5	3.3	5.0	1	EPA 8260B	01/28/14 17:16	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.95	UD	ug/L	5	0.95	5.0	5	EPA 8260B	01/28/14 17:16	REF	
1,2-Dichloroethane [107-06-2] ^	1.0	UD	ug/L	5	1.0	5.0	1	EPA 8260B	01/28/14 17:16	REF	
1,2-Dichloropropane [78-87-5] ^	0.50	UD	ug/L	5	0.50	5.0	1	EPA 8260B	01/28/14 17:16	REF	
1,4-Dichlorobenzene [106-46-7] ^	**11**	D	ug/L	5	0.95	5.0	1	EPA 8260B	01/28/14 17:16	REF	
2-Butanone [78-93-3] ^	6.5	UD	ug/L	5	6.5	25	100	EPA 8260B	01/28/14 17:16	REF	
2-Hexanone [591-78-6] ^	4.4	UD	ug/L	5	4.4	25	50	EPA 8260B	01/28/14 17:16	REF	
4-Methyl-2-pentanone [108-10-1] ^	5.5	UD	ug/L	5	5.5	25	100	EPA 8260B	01/28/14 17:16	REF	
Acetone [67-64-1] ^	6.0	UD	ug/L	5	6.0	25	100	EPA 8260B	01/28/14 17:16	REF	
Acrylonitrile [107-13-1] ^	18	UD	ug/L	5	18	50	200	EPA 8260B	01/28/14 17:16	REF	
Benzene [71-43-2] ^	**4.8**	JD	ug/L	5	0.75	5.0	1	EPA 8260B	01/28/14 17:16	REF	
Bromochloromethane [74-97-5] ^	2.4	UD	ug/L	5	2.4	5.0	3	EPA 8260B	01/28/14 17:16	REF	
Bromodichloromethane [75-27-4] ^	0.85	UD	ug/L	5	0.85	5.0	1	EPA 8260B	01/28/14 17:16	REF	
Bromoform [75-25-2] ^	1.1	UD	ug/L	5	1.1	5.0	3	EPA 8260B	01/28/14 17:16	REF	
Bromomethane [74-83-9] ^	0.70	UD	ug/L	5	0.70	5.0	10	EPA 8260B	01/28/14 17:16	REF	
Carbon disulfide [75-15-0] ^	7.5	UD	ug/L	5	7.5	25	100	EPA 8260B	01/28/14 17:16	REF	
Carbon tetrachloride [56-23-5] ^	0.85	UD	ug/L	5	0.85	5.0	1	EPA 8260B	01/28/14 17:16	REF	
Chlorobenzene [108-90-7] ^	**16**	D	ug/L	5	0.85	5.0	3	EPA 8260B	01/28/14 17:16	REF	
Chloroethane [75-00-3] ^	1.2	UD	ug/L	5	1.2	5.0	10	EPA 8260B	01/28/14 17:16	REF	
Chloroform [67-66-3] ^	0.90	UD	ug/L	5	0.90	5.0	5	EPA 8260B	01/28/14 17:16	REF	
Chloromethane [74-87-3] ^	0.65	UD	ug/L	5	0.65	5.0	1	EPA 8260B	01/28/14 17:16	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**310**	D	ug/L	5	0.75	5.0	5	EPA 8260B	01/28/14 17:16	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	1.0	UD	ug/L	5	1.0	5.0	1	EPA 8260B	01/28/14 17:16	REF	
Dibromochloromethane [124-48-1] ^	0.85	UD	ug/L	5	0.85	5.0	3	EPA 8260B	01/28/14 17:16	REF	
Dibromomethane [74-95-3] ^	1.4	UD	ug/L	5	1.4	5.0	10	EPA 8260B	01/28/14 17:16	REF	
Ethylbenzene [100-41-4] ^	0.65	UD	ug/L	5	0.65	5.0	1	EPA 8260B	01/28/14 17:16	REF	
Iodomethane [74-88-4] ^	8.5	UD	ug/L	5	8.5	25	10	EPA 8260B	01/28/14 17:16	REF	
Methylene chloride [75-09-2] ^	1.2	UD	ug/L	5	1.2	5.0	1	EPA 8260B	01/28/14 17:16	REF	
Styrene [100-42-5] ^	0.55	UD	ug/L	5	0.55	5.0	1	EPA 8260B	01/28/14 17:16	REF	
Tetrachloroethene [127-18-4] ^	0.85	UD	ug/L	5	0.85	5.0	1	EPA 8260B	01/28/14 17:16	REF	
Toluene [108-88-3] ^	0.70	UD	ug/L	5	0.70	5.0	1	EPA 8260B	01/28/14 17:16	REF	
trans-1,2-Dichloroethene [156-60-5] ^	**3.1**	JD	ug/L	5	1.0	5.0	5	EPA 8260B	01/28/14 17:16	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.75	UD	ug/L	5	0.75	5.0	1	EPA 8260B	01/28/14 17:16	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	3.5	UD	ug/L	5	3.5	5.0	100	EPA 8260B	01/28/14 17:16	REF	
Trichloroethene [79-01-6] ^	0.75	UD	ug/L	5	0.75	5.0	1	EPA 8260B	01/28/14 17:16	REF	
Trichlorofluoromethane [75-69-4] ^	1.2	UD	ug/L	5	1.2	5.0	1	EPA 8260B	01/28/14 17:16	REF	
Vinyl acetate [108-05-4] ^	4.8	UD	ug/L	5	4.8	25	50	EPA 8260B	01/28/14 17:16	REF	
Vinyl chloride [75-01-4] ^	**25**	D	ug/L	5	1.6	5.0	1	EPA 8260B	01/28/14 17:16	REF	

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

Lab Sample ID: C400184-03
Sampled: 01/23/14 15:40
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	2.2	UD	ug/L	5	2.2	15	5	EPA 8260B	01/28/14 17:16	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*38*	*1*	*50.0*	*75 %*	*51-122*	*4A28030*	*EPA 8260B*	*01/28/14 17:16*	*REF*	
Dibromofluoromethane	*35*	*1*	*50.0*	*70 %*	*68-117*	*4A28030*	*EPA 8260B*	*01/28/14 17:16*	*REF*	
Toluene-d8	*37*	*1*	*50.0*	*75 %*	*67-127*	*4A28030*	*EPA 8260B*	*01/28/14 17:16*	*REF*	

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

Lab Sample ID: C400184-03
Sampled: 01/23/14 15:40
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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	01/30/14 14:37	VLO	
Arsenic [7440-38-2] ^	**51.1**		ug/L	1	5.40	10.0	10	EPA 6010C	01/30/14 12:56	JDH	
Barium [7440-39-3] ^	**268**		ug/L	1	1.00	10.0	100	EPA 6010C	01/30/14 12:56	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	01/30/14 12:56	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/30/14 12:56	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	01/30/14 12:56	JDH	
Cobalt [7440-48-4] ^	**190**		ug/L	1	1.10	10.0	10	EPA 6010C	01/30/14 12:56	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/30/14 12:56	JDH	
Lead [7439-92-1] ^	**9.65**	J	ug/L	1	2.10	10.0	10	EPA 6010C	01/30/14 12:56	JDH	
Nickel [7440-02-0] ^	**59.8**		ug/L	1	1.80	10.0	50	EPA 6010C	01/30/14 12:56	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	1.00	10	EPA 6020A	01/30/14 14:37	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/30/14 12:56	JDH	
Thallium [7440-28-0] ^	**0.149**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/30/14 14:37	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/30/14 12:56	JDH	
Zinc [7440-66-6] ^	**80.0**		ug/L	1	3.80	10.0	10	EPA 6010C	01/30/14 12:56	JDH	

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

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Description: 3301-MW6
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-04
Sampled: 01/24/14 11:40
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/31/14 20:57	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/31/14 20:57	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/31/14 20:57	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/31/14 20:57	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	01/31/14 20:57	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/31/14 20:57	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/31/14 20:57	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/31/14 20:57	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/31/14 20:57	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/31/14 20:57	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/31/14 20:57	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/31/14 20:57	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/31/14 20:57	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/31/14 20:57	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/31/14 20:57	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/31/14 20:57	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/31/14 20:57	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/31/14 20:57	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/14 20:57	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/31/14 20:57	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/31/14 20:57	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/31/14 20:57	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/31/14 20:57	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/31/14 20:57	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/31/14 20:57	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/31/14 20:57	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/31/14 20:57	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/31/14 20:57	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/31/14 20:57	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/31/14 20:57	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/31/14 20:57	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/31/14 20:57	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/31/14 20:57	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/31/14 20:57	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/31/14 20:57	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/31/14 20:57	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/31/14 20:57	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/31/14 20:57	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/31/14 20:57	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/31/14 20:57	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/14 20:57	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/31/14 20:57	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/14 20:57	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/31/14 20:57	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/31/14 20:57	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/31/14 20:57	REF	

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Description: 3301-MW6
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-04
Sampled: 01/24/14 11:40
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	01/31/14 20:57	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*98 %*	*51-122*	*4A31025*	*EPA 8260B*	*01/31/14 20:57*	*REF*	
Dibromofluoromethane	*48*	*1*	*50.0*	*97 %*	*68-117*	*4A31025*	*EPA 8260B*	*01/31/14 20:57*	*REF*	
Toluene-d8	*44*	*1*	*50.0*	*89 %*	*67-127*	*4A31025*	*EPA 8260B*	*01/31/14 20:57*	*REF*	

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Description: 3301-MW6
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-04
Sampled: 01/24/14 11:40
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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	01/30/14 14:41	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	01/30/14 12:59	JDH	
Barium [7440-39-3] ^	**208**		ug/L	1	1.00	10.0	100	EPA 6010C	01/30/14 12:59	JDH	
Beryllium [7440-41-7] ^	**0.123**	J	ug/L	1	0.100	1.00	1	EPA 6010C	01/30/14 12:59	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/30/14 12:59	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	01/30/14 12:59	JDH	
Cobalt [7440-48-4] ^	**37.1**		ug/L	1	1.10	10.0	10	EPA 6010C	01/30/14 12:59	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/30/14 12:59	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	01/30/14 12:59	JDH	
Nickel [7440-02-0] ^	**9.12**	J	ug/L	1	1.80	10.0	50	EPA 6010C	01/30/14 12:59	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	1.00	10	EPA 6020A	01/30/14 14:41	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/30/14 12:59	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/30/14 14:41	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/30/14 12:59	JDH	
Zinc [7440-66-6] ^	**43.4**		ug/L	1	3.80	10.0	10	EPA 6010C	01/30/14 12:59	JDH	

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

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

Lab Sample ID: C400184-05
Sampled: 01/24/14 10:15
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/31/14 21:26	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/31/14 21:26	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/31/14 21:26	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/31/14 21:26	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	01/31/14 21:26	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/31/14 21:26	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/31/14 21:26	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/31/14 21:26	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/31/14 21:26	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/31/14 21:26	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/31/14 21:26	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/31/14 21:26	REF	
1,4-Dichlorobenzene [106-46-7] ^	**1.0**		ug/L	1	0.19	1.0	1	EPA 8260B	01/31/14 21:26	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/31/14 21:26	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/31/14 21:26	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/31/14 21:26	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/31/14 21:26	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/31/14 21:26	REF	
Benzene [71-43-2] ^	**2.0**		ug/L	1	0.15	1.0	1	EPA 8260B	01/31/14 21:26	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/31/14 21:26	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/31/14 21:26	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/31/14 21:26	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/31/14 21:26	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/31/14 21:26	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/31/14 21:26	REF	
Chlorobenzene [108-90-7] ^	**2.8**	J	ug/L	1	0.17	1.0	3	EPA 8260B	01/31/14 21:26	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/31/14 21:26	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/31/14 21:26	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/31/14 21:26	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/31/14 21:26	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/31/14 21:26	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/31/14 21:26	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/31/14 21:26	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/31/14 21:26	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/31/14 21:26	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/31/14 21:26	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/31/14 21:26	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/31/14 21:26	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/31/14 21:26	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/31/14 21:26	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/14 21:26	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/31/14 21:26	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/14 21:26	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/31/14 21:26	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/31/14 21:26	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/31/14 21:26	REF	

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

Lab Sample ID: C400184-05
Sampled: 01/24/14 10:15
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	01/31/14 21:26	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*98 %*	*51-122*	*4A31025*	*EPA 8260B*	*01/31/14 21:26*	*REF*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*68-117*	*4A31025*	*EPA 8260B*	*01/31/14 21:26*	*REF*	
Toluene-d8	*45*	*1*	*50.0*	*90 %*	*67-127*	*4A31025*	*EPA 8260B*	*01/31/14 21:26*	*REF*	

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

Lab Sample ID: C400184-05
Sampled: 01/24/14 10:15
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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	01/30/14 14:45	VLO	
Arsenic [7440-38-2] ^	**22.9**		ug/L	1	5.40	10.0	10	EPA 6010C	01/30/14 13:01	JDH	
Barium [7440-39-3] ^	**289**		ug/L	1	1.00	10.0	100	EPA 6010C	01/30/14 13:01	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	01/30/14 13:01	JDH	
Cadmium [7440-43-9] ^	**0.424**	J	ug/L	1	0.360	1.00	1	EPA 6010C	01/30/14 13:01	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	01/30/14 13:01	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	01/30/14 13:01	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/30/14 13:01	JDH	
Lead [7439-92-1] ^	**5.06**	J	ug/L	1	2.10	10.0	10	EPA 6010C	01/30/14 13:01	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	01/30/14 13:01	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	1.00	10	EPA 6020A	01/30/14 14:45	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/30/14 13:01	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/30/14 14:45	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/30/14 13:01	JDH	
Zinc [7440-66-6] ^	**6.75**	J	ug/L	1	3.80	10.0	10	EPA 6010C	01/30/14 13:01	JDH	

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

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Description: 3301-MW9
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-06
Sampled: 01/23/14 12:08
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/28/14 17:46	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/28/14 17:46	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/28/14 17:46	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/28/14 17:46	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	01/28/14 17:46	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/28/14 17:46	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/28/14 17:46	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/28/14 17:46	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/28/14 17:46	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/28/14 17:46	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/28/14 17:46	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/28/14 17:46	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/28/14 17:46	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/28/14 17:46	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/28/14 17:46	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/28/14 17:46	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/28/14 17:46	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/28/14 17:46	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/28/14 17:46	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/28/14 17:46	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/28/14 17:46	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/28/14 17:46	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/28/14 17:46	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/28/14 17:46	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/28/14 17:46	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/28/14 17:46	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/28/14 17:46	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/28/14 17:46	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/28/14 17:46	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/28/14 17:46	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/28/14 17:46	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/28/14 17:46	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/28/14 17:46	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/28/14 17:46	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/28/14 17:46	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/28/14 17:46	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/28/14 17:46	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/28/14 17:46	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/28/14 17:46	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/28/14 17:46	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/28/14 17:46	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/28/14 17:46	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/28/14 17:46	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/28/14 17:46	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/28/14 17:46	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/28/14 17:46	REF	

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Description: 3301-MW9
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-06
Sampled: 01/23/14 12:08
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	01/28/14 17:46	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*36*	*1*	*50.0*	*73 %*	*51-122*	*4A28030*	*EPA 8260B*	*01/28/14 17:46*	*REF*	
Dibromofluoromethane	*37*	*1*	*50.0*	*73 %*	*68-117*	*4A28030*	*EPA 8260B*	*01/28/14 17:46*	*REF*	
Toluene-d8	*40*	*1*	*50.0*	*80 %*	*67-127*	*4A28030*	*EPA 8260B*	*01/28/14 17:46*	*REF*	

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Description: 3301-MW9
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-06
Sampled: 01/23/14 12:08
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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	01/30/14 14:49	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	01/30/14 13:14	JDH	
Barium [7440-39-3] ^	**116**		ug/L	1	1.00	10.0	100	EPA 6010C	01/30/14 13:14	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	01/30/14 13:14	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/30/14 13:14	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	01/30/14 13:14	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	01/30/14 13:14	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/30/14 13:14	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	01/30/14 13:14	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	01/30/14 13:14	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	1.00	10	EPA 6020A	01/30/14 14:49	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/30/14 13:14	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/30/14 14:49	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/30/14 13:14	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	01/30/14 13:14	JDH	

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

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

Lab Sample ID: C400184-07
Sampled: 01/24/14 11:05
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/31/14 21:56	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/31/14 21:56	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/31/14 21:56	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/31/14 21:56	REF	
1,1-Dichloroethane [75-34-3] ^	**0.98**	J	ug/L	1	0.13	1.0	5	EPA 8260B	01/31/14 21:56	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/31/14 21:56	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/31/14 21:56	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/31/14 21:56	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/31/14 21:56	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/31/14 21:56	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/31/14 21:56	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/31/14 21:56	REF	
1,4-Dichlorobenzene [106-46-7] ^	**6.8**		ug/L	1	0.19	1.0	1	EPA 8260B	01/31/14 21:56	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/31/14 21:56	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/31/14 21:56	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/31/14 21:56	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/31/14 21:56	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/31/14 21:56	REF	
Benzene [71-43-2] ^	**3.5**		ug/L	1	0.15	1.0	1	EPA 8260B	01/31/14 21:56	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/31/14 21:56	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/31/14 21:56	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/31/14 21:56	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/31/14 21:56	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/31/14 21:56	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/31/14 21:56	REF	
Chlorobenzene [108-90-7] ^	**3.5**		ug/L	1	0.17	1.0	3	EPA 8260B	01/31/14 21:56	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/31/14 21:56	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/31/14 21:56	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/31/14 21:56	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**0.54**	J	ug/L	1	0.15	1.0	5	EPA 8260B	01/31/14 21:56	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/31/14 21:56	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/31/14 21:56	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/31/14 21:56	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/31/14 21:56	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/31/14 21:56	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/31/14 21:56	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/31/14 21:56	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/31/14 21:56	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/31/14 21:56	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/31/14 21:56	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/14 21:56	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/31/14 21:56	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/14 21:56	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/31/14 21:56	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/31/14 21:56	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/31/14 21:56	REF	

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

Lab Sample ID: C400184-07
Sampled: 01/24/14 11:05
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	01/31/14 21:56	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*101 %*	*51-122*	*4A31025*	*EPA 8260B*	*01/31/14 21:56*	*REF*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*68-117*	*4A31025*	*EPA 8260B*	*01/31/14 21:56*	*REF*	
Toluene-d8	*45*	*1*	*50.0*	*89 %*	*67-127*	*4A31025*	*EPA 8260B*	*01/31/14 21:56*	*REF*	

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

Lab Sample ID: C400184-07
Sampled: 01/24/14 11:05
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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	01/30/14 14:53	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	01/30/14 13:17	JDH	
Barium [7440-39-3] ^	**258**		ug/L	1	1.00	10.0	100	EPA 6010C	01/30/14 13:17	JDH	
Beryllium [7440-41-7] ^	**0.345**	J	ug/L	1	0.100	1.00	1	EPA 6010C	01/30/14 13:17	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/30/14 13:17	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	01/30/14 13:17	JDH	
Cobalt [7440-48-4] ^	**15.1**		ug/L	1	1.10	10.0	10	EPA 6010C	01/30/14 13:17	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/30/14 13:17	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	01/30/14 13:17	JDH	
Nickel [7440-02-0] ^	**18.1**	J	ug/L	1	1.80	10.0	50	EPA 6010C	01/30/14 13:17	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	1.00	10	EPA 6020A	01/30/14 14:53	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/30/14 13:17	JDH	
Thallium [7440-28-0] ^	**0.152**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/30/14 14:53	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/30/14 13:17	JDH	
Zinc [7440-66-6] ^	**149**		ug/L	1	3.80	10.0	10	EPA 6010C	01/30/14 13:17	JDH	

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

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Description: 3301-MW13
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-08
Sampled: 01/23/14 14:46
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/28/14 18:16	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/28/14 18:16	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/28/14 18:16	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/28/14 18:16	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	01/28/14 18:16	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/28/14 18:16	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/28/14 18:16	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/28/14 18:16	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/28/14 18:16	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/28/14 18:16	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/28/14 18:16	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/28/14 18:16	REF	
1,4-Dichlorobenzene [106-46-7] ^	**1.6**		ug/L	1	0.19	1.0	1	EPA 8260B	01/28/14 18:16	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/28/14 18:16	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/28/14 18:16	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/28/14 18:16	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/28/14 18:16	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/28/14 18:16	REF	
Benzene [71-43-2] ^	**0.73**	J	ug/L	1	0.15	1.0	1	EPA 8260B	01/28/14 18:16	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/28/14 18:16	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/28/14 18:16	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/28/14 18:16	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/28/14 18:16	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/28/14 18:16	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/28/14 18:16	REF	
Chlorobenzene [108-90-7] ^	**7.3**		ug/L	1	0.17	1.0	3	EPA 8260B	01/28/14 18:16	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/28/14 18:16	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/28/14 18:16	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/28/14 18:16	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**6.9**		ug/L	1	0.15	1.0	5	EPA 8260B	01/28/14 18:16	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/28/14 18:16	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/28/14 18:16	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/28/14 18:16	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/28/14 18:16	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/28/14 18:16	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/28/14 18:16	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/28/14 18:16	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/28/14 18:16	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/28/14 18:16	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/28/14 18:16	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/28/14 18:16	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/28/14 18:16	REF	
Trichloroethene [79-01-6] ^	**0.60**	J	ug/L	1	0.15	1.0	1	EPA 8260B	01/28/14 18:16	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/28/14 18:16	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/28/14 18:16	REF	
Vinyl chloride [75-01-4] ^	**1.5**		ug/L	1	0.32	1.0	1	EPA 8260B	01/28/14 18:16	REF	

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Description: 3301-MW13
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-08
Sampled: 01/23/14 14:46
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	01/28/14 18:16	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*38*	*1*	*50.0*	*77 %*	*51-122*	*4A28030*	*EPA 8260B*	*01/28/14 18:16*	*REF*	
Dibromofluoromethane	*35*	*1*	*50.0*	*70 %*	*68-117*	*4A28030*	*EPA 8260B*	*01/28/14 18:16*	*REF*	
Toluene-d8	*40*	*1*	*50.0*	*80 %*	*67-127*	*4A28030*	*EPA 8260B*	*01/28/14 18:16*	*REF*	

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Description: 3301-MW13
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-08
Sampled: 01/23/14 14:46
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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	01/30/14 14:57	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	01/30/14 13:19	JDH	
Barium [7440-39-3] ^	**256**		ug/L	1	1.00	10.0	100	EPA 6010C	01/30/14 13:19	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	01/30/14 13:19	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/30/14 13:19	JDH	
Chromium [7440-47-3] ^	**8.84**	J	ug/L	1	1.40	10.0	10	EPA 6010C	01/30/14 13:19	JDH	
Cobalt [7440-48-4] ^	**963**		ug/L	1	1.10	10.0	10	EPA 6010C	01/30/14 13:19	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/30/14 13:19	JDH	
Lead [7439-92-1] ^	**3.05**	J	ug/L	1	2.10	10.0	10	EPA 6010C	01/30/14 13:19	JDH	
Nickel [7440-02-0] ^	**240**		ug/L	1	1.80	10.0	50	EPA 6010C	01/30/14 13:19	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	1.00	10	EPA 6020A	01/30/14 14:57	VLO	
Silver [7440-22-4] ^	**5.57**	J	ug/L	1	1.90	10.0	10	EPA 6010C	01/30/14 13:19	JDH	
Thallium [7440-28-0] ^	**0.961**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/30/14 14:57	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/30/14 13:19	JDH	
Zinc [7440-66-6] ^	**129**		ug/L	1	3.80	10.0	10	EPA 6010C	01/30/14 13:19	JDH	

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

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Description: 3301-MW14
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-09
Sampled: 01/23/14 15:20
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/28/14 18:45	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/28/14 18:45	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/28/14 18:45	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/28/14 18:45	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	01/28/14 18:45	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/28/14 18:45	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/28/14 18:45	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/28/14 18:45	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/28/14 18:45	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/28/14 18:45	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/28/14 18:45	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/28/14 18:45	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/28/14 18:45	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/28/14 18:45	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/28/14 18:45	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/28/14 18:45	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/28/14 18:45	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/28/14 18:45	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/28/14 18:45	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/28/14 18:45	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/28/14 18:45	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/28/14 18:45	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/28/14 18:45	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/28/14 18:45	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/28/14 18:45	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/28/14 18:45	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/28/14 18:45	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/28/14 18:45	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/28/14 18:45	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/28/14 18:45	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/28/14 18:45	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/28/14 18:45	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/28/14 18:45	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/28/14 18:45	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/28/14 18:45	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/28/14 18:45	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/28/14 18:45	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/28/14 18:45	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/28/14 18:45	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/28/14 18:45	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/28/14 18:45	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/28/14 18:45	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/28/14 18:45	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/28/14 18:45	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/28/14 18:45	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/28/14 18:45	REF	

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Description: 3301-MW14
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-09
Sampled: 01/23/14 15:20
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	01/28/14 18:45	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*78 %*	*51-122*	*4A28030*	*EPA 8260B*	*01/28/14 18:45*	*REF*	
Dibromofluoromethane	*35*	*1*	*50.0*	*70 %*	*68-117*	*4A28030*	*EPA 8260B*	*01/28/14 18:45*	*REF*	
Toluene-d8	*40*	*1*	*50.0*	*80 %*	*67-127*	*4A28030*	*EPA 8260B*	*01/28/14 18:45*	*REF*	

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Description: 3301-MW14
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-09
Sampled: 01/23/14 15:20
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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	01/30/14 15:01	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	01/30/14 13:22	JDH	
Barium [7440-39-3] ^	**205**		ug/L	1	1.00	10.0	100	EPA 6010C	01/30/14 13:22	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	01/30/14 13:22	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/30/14 13:22	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	01/30/14 13:22	JDH	
Cobalt [7440-48-4] ^	**1.19**	J	ug/L	1	1.10	10.0	10	EPA 6010C	01/30/14 13:22	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/30/14 13:22	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	01/30/14 13:22	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	01/30/14 13:22	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	1.00	10	EPA 6020A	01/30/14 15:01	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/30/14 13:22	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/30/14 15:01	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/30/14 13:22	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	01/30/14 13:22	JDH	

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

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Description: 3301-MW15
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-10
Sampled: 01/23/14 16:30
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/28/14 19:15	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/28/14 19:15	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/28/14 19:15	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/28/14 19:15	REF	
1,1-Dichloroethane [75-34-3] ^	**0.58**	J	ug/L	1	0.13	1.0	5	EPA 8260B	01/28/14 19:15	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/28/14 19:15	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/28/14 19:15	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/28/14 19:15	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/28/14 19:15	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/28/14 19:15	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/28/14 19:15	REF	
1,2-Dichloropropane [78-87-5] ^	**0.84**	J	ug/L	1	0.10	1.0	1	EPA 8260B	01/28/14 19:15	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/28/14 19:15	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/28/14 19:15	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/28/14 19:15	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/28/14 19:15	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/28/14 19:15	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/28/14 19:15	REF	
Benzene [71-43-2] ^	**0.59**	J	ug/L	1	0.15	1.0	1	EPA 8260B	01/28/14 19:15	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/28/14 19:15	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/28/14 19:15	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/28/14 19:15	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/28/14 19:15	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/28/14 19:15	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/28/14 19:15	REF	
Chlorobenzene [108-90-7] ^	**1.6**	J	ug/L	1	0.17	1.0	3	EPA 8260B	01/28/14 19:15	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/28/14 19:15	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/28/14 19:15	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/28/14 19:15	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**9.9**		ug/L	1	0.15	1.0	5	EPA 8260B	01/28/14 19:15	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/28/14 19:15	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/28/14 19:15	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/28/14 19:15	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/28/14 19:15	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/28/14 19:15	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/28/14 19:15	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/28/14 19:15	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/28/14 19:15	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/28/14 19:15	REF	
trans-1,2-Dichloroethene [156-60-5] ^	**0.43**	J	ug/L	1	0.21	1.0	5	EPA 8260B	01/28/14 19:15	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/28/14 19:15	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/28/14 19:15	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/28/14 19:15	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/28/14 19:15	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/28/14 19:15	REF	
Vinyl chloride [75-01-4] ^	**3.6**		ug/L	1	0.32	1.0	1	EPA 8260B	01/28/14 19:15	REF	

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Description: 3301-MW15
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-10
Sampled: 01/23/14 16:30
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	01/28/14 19:15	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*37*	*1*	*50.0*	*74 %*	*51-122*	*4A28030*	*EPA 8260B*	*01/28/14 19:15*	*REF*	
Dibromofluoromethane	*37*	*1*	*50.0*	*73 %*	*68-117*	*4A28030*	*EPA 8260B*	*01/28/14 19:15*	*REF*	
Toluene-d8	*40*	*1*	*50.0*	*81 %*	*67-127*	*4A28030*	*EPA 8260B*	*01/28/14 19:15*	*REF*	

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Description: 3301-MW15
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-10
Sampled: 01/23/14 16:30
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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	01/30/14 15:04	VLO	
Arsenic [7440-38-2] ^	**8.20**	J	ug/L	1	5.40	10.0	10	EPA 6010C	01/30/14 13:25	JDH	
Barium [7440-39-3] ^	**341**		ug/L	1	1.00	10.0	100	EPA 6010C	01/30/14 13:25	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	01/30/14 13:25	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/30/14 13:25	JDH	
Chromium [7440-47-3] ^	**1.53**	J	ug/L	1	1.40	10.0	10	EPA 6010C	01/30/14 13:25	JDH	
Cobalt [7440-48-4] ^	**15.4**		ug/L	1	1.10	10.0	10	EPA 6010C	01/30/14 13:25	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/30/14 13:25	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	01/30/14 13:25	JDH	
Nickel [7440-02-0] ^	**9.59**	J	ug/L	1	1.80	10.0	50	EPA 6010C	01/30/14 13:25	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	1.00	10	EPA 6020A	01/30/14 15:04	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/30/14 13:25	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/30/14 15:04	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/30/14 13:25	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	01/30/14 13:25	JDH	

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

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

Lab Sample ID: C400184-11
Sampled: 01/24/14 13:55
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/31/14 22:25	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/31/14 22:25	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/31/14 22:25	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/31/14 22:25	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	01/31/14 22:25	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/31/14 22:25	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/31/14 22:25	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/31/14 22:25	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/31/14 22:25	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/31/14 22:25	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/31/14 22:25	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/31/14 22:25	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/31/14 22:25	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/31/14 22:25	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/31/14 22:25	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/31/14 22:25	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/31/14 22:25	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/31/14 22:25	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/14 22:25	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/31/14 22:25	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/31/14 22:25	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/31/14 22:25	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/31/14 22:25	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/31/14 22:25	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/31/14 22:25	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/31/14 22:25	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/31/14 22:25	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/31/14 22:25	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/31/14 22:25	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/31/14 22:25	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/31/14 22:25	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/31/14 22:25	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/31/14 22:25	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/31/14 22:25	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/31/14 22:25	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/31/14 22:25	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/31/14 22:25	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/31/14 22:25	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/31/14 22:25	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/31/14 22:25	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/14 22:25	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/31/14 22:25	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/14 22:25	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/31/14 22:25	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/31/14 22:25	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/31/14 22:25	REF	

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

Lab Sample ID: C400184-11
Sampled: 01/24/14 13:55
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	01/31/14 22:25	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*98 %*	*51-122*	*4A31025*	*EPA 8260B*	*01/31/14 22:25*	*REF*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*68-117*	*4A31025*	*EPA 8260B*	*01/31/14 22:25*	*REF*	
Toluene-d8	*44*	*1*	*50.0*	*89 %*	*67-127*	*4A31025*	*EPA 8260B*	*01/31/14 22:25*	*REF*	

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

Lab Sample ID: C400184-11
Sampled: 01/24/14 13:55
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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	01/30/14 15:17	VLO	
Arsenic [7440-38-2] ^	**8.39**	J	ug/L	1	5.40	10.0	10	EPA 6010C	01/30/14 13:27	JDH	
Barium [7440-39-3] ^	**310**		ug/L	1	1.00	10.0	100	EPA 6010C	01/30/14 13:27	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	01/30/14 13:27	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/30/14 13:27	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	01/30/14 13:27	JDH	
Cobalt [7440-48-4] ^	**1.83**	J	ug/L	1	1.10	10.0	10	EPA 6010C	01/30/14 13:27	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/30/14 13:27	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	01/30/14 13:27	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	01/30/14 13:27	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	1.00	10	EPA 6020A	01/30/14 15:17	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/30/14 13:27	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/30/14 15:17	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/30/14 13:27	JDH	
Zinc [7440-66-6] ^	**4.28**	J	ug/L	1	3.80	10.0	10	EPA 6010C	01/30/14 13:27	JDH	

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

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Description: 3301-SW1
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-12
Sampled: 01/24/14 12:00
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/31/14 22:55	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/31/14 22:55	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/31/14 22:55	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/31/14 22:55	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	01/31/14 22:55	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/31/14 22:55	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/31/14 22:55	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/31/14 22:55	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/31/14 22:55	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/31/14 22:55	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/31/14 22:55	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/31/14 22:55	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/31/14 22:55	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/31/14 22:55	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/31/14 22:55	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/31/14 22:55	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/31/14 22:55	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/31/14 22:55	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/14 22:55	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/31/14 22:55	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/31/14 22:55	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/31/14 22:55	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/31/14 22:55	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/31/14 22:55	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/31/14 22:55	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/31/14 22:55	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/31/14 22:55	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/31/14 22:55	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/31/14 22:55	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/31/14 22:55	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/31/14 22:55	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/31/14 22:55	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/31/14 22:55	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/31/14 22:55	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/31/14 22:55	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/31/14 22:55	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/31/14 22:55	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/31/14 22:55	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/31/14 22:55	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/31/14 22:55	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/14 22:55	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/31/14 22:55	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/14 22:55	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/31/14 22:55	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/31/14 22:55	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/31/14 22:55	REF	

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Description: 3301-SW1
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-12
Sampled: 01/24/14 12:00
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	01/31/14 22:55	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*100 %*	*51-122*	*4A31025*	*EPA 8260B*	*01/31/14 22:55*	*REF*	
Dibromofluoromethane	*48*	*1*	*50.0*	*97 %*	*68-117*	*4A31025*	*EPA 8260B*	*01/31/14 22:55*	*REF*	
Toluene-d8	*44*	*1*	*50.0*	*89 %*	*67-127*	*4A31025*	*EPA 8260B*	*01/31/14 22:55*	*REF*	

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Description: 3301-SW1
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-12
Sampled: 01/24/14 12:00
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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	01/30/14 15:21	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	01/30/14 13:30	JDH	
Barium [7440-39-3] ^	**66.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	01/30/14 13:30	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	01/30/14 13:30	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/30/14 13:30	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	01/30/14 13:30	JDH	
Cobalt [7440-48-4] ^	**1.88**	J	ug/L	1	1.10	10.0	10	EPA 6010C	01/30/14 13:30	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/30/14 13:30	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	01/30/14 13:30	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	01/30/14 13:30	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	1.00	10	EPA 6020A	01/30/14 15:21	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/30/14 13:30	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/30/14 15:21	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/30/14 13:30	JDH	
Zinc [7440-66-6] ^	**11.3**		ug/L	1	3.80	10.0	10	EPA 6010C	01/30/14 13:30	JDH	

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

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Description: 3301-SW2
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-13
Sampled: 01/24/14 13:30
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/31/14 23:24	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/31/14 23:24	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/31/14 23:24	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/31/14 23:24	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	01/31/14 23:24	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/31/14 23:24	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/31/14 23:24	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/31/14 23:24	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/31/14 23:24	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/31/14 23:24	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/31/14 23:24	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/31/14 23:24	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/31/14 23:24	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/31/14 23:24	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/31/14 23:24	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/31/14 23:24	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/31/14 23:24	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/31/14 23:24	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/14 23:24	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/31/14 23:24	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/31/14 23:24	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/31/14 23:24	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/31/14 23:24	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/31/14 23:24	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/31/14 23:24	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/31/14 23:24	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/31/14 23:24	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/31/14 23:24	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/31/14 23:24	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/31/14 23:24	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/31/14 23:24	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/31/14 23:24	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/31/14 23:24	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/31/14 23:24	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/31/14 23:24	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/31/14 23:24	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/31/14 23:24	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/31/14 23:24	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/31/14 23:24	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/31/14 23:24	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/14 23:24	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/31/14 23:24	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/14 23:24	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/31/14 23:24	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/31/14 23:24	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/31/14 23:24	REF	

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Description: 3301-SW2
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-13
Sampled: 01/24/14 13:30
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	01/31/14 23:24	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*98 %*	*51-122*	*4A31025*	*EPA 8260B*	*01/31/14 23:24*	*REF*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*68-117*	*4A31025*	*EPA 8260B*	*01/31/14 23:24*	*REF*	
Toluene-d8	*45*	*1*	*50.0*	*89 %*	*67-127*	*4A31025*	*EPA 8260B*	*01/31/14 23:24*	*REF*	

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Description: 3301-SW2
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-13
Sampled: 01/24/14 13:30
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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	01/30/14 15:25	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	01/30/14 13:32	JDH	
Barium [7440-39-3] ^	**59.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	01/30/14 13:32	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	01/30/14 13:32	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/30/14 13:32	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	01/30/14 13:32	JDH	
Cobalt [7440-48-4] ^	**1.43**	J	ug/L	1	1.10	10.0	10	EPA 6010C	01/30/14 13:32	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/30/14 13:32	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	01/30/14 13:32	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	01/30/14 13:32	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	1.00	10	EPA 6020A	01/30/14 15:25	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/30/14 13:32	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/30/14 15:25	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/30/14 13:32	JDH	
Zinc [7440-66-6] ^	**10.4**		ug/L	1	3.80	10.0	10	EPA 6010C	01/30/14 13:32	JDH	

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

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

Lab Sample ID: C400184-14
Sampled: 01/23/14 10:44
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.85	UD	ug/L	5	0.85	5.0	5	EPA 8260B	01/31/14 20:28	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.60	UD	ug/L	5	0.60	5.0	1	EPA 8260B	01/31/14 20:28	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	1.4	UD	ug/L	5	1.4	5.0	3	EPA 8260B	01/31/14 20:28	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.70	UD	ug/L	5	0.70	5.0	1	EPA 8260B	01/31/14 20:28	REF	
1,1-Dichloroethane [75-34-3] ^	**5.6**	D	ug/L	5	0.65	5.0	5	EPA 8260B	01/31/14 20:28	REF	
1,1-Dichloroethene [75-35-4] ^	1.0	UD	ug/L	5	1.0	5.0	5	EPA 8260B	01/31/14 20:28	REF	
1,2,3-Trichloropropane [96-18-4] ^	1.2	UD	ug/L	5	1.2	5.0	1	EPA 8260B	01/31/14 20:28	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	2.4	UD	ug/L	5	2.4	5.0	13	EPA 8260B	01/31/14 20:28	REF	
1,2-Dibromoethane [106-93-4] ^	3.3	UD	ug/L	5	3.3	5.0	1	EPA 8260B	01/31/14 20:28	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.95	UD	ug/L	5	0.95	5.0	5	EPA 8260B	01/31/14 20:28	REF	
1,2-Dichloroethane [107-06-2] ^	1.0	UD	ug/L	5	1.0	5.0	1	EPA 8260B	01/31/14 20:28	REF	
1,2-Dichloropropane [78-87-5] ^	0.50	UD	ug/L	5	0.50	5.0	1	EPA 8260B	01/31/14 20:28	REF	
1,4-Dichlorobenzene [106-46-7] ^	**11**	D	ug/L	5	0.95	5.0	1	EPA 8260B	01/31/14 20:28	REF	
2-Butanone [78-93-3] ^	6.5	UD	ug/L	5	6.5	25	100	EPA 8260B	01/31/14 20:28	REF	
2-Hexanone [591-78-6] ^	4.4	UD	ug/L	5	4.4	25	50	EPA 8260B	01/31/14 20:28	REF	
4-Methyl-2-pentanone [108-10-1] ^	5.5	UD	ug/L	5	5.5	25	100	EPA 8260B	01/31/14 20:28	REF	
Acetone [67-64-1] ^	6.0	UD	ug/L	5	6.0	25	100	EPA 8260B	01/31/14 20:28	REF	
Acrylonitrile [107-13-1] ^	18	UD	ug/L	5	18	50	200	EPA 8260B	01/31/14 20:28	REF	
Benzene [71-43-2] ^	**4.8**	JD	ug/L	5	0.75	5.0	1	EPA 8260B	01/31/14 20:28	REF	
Bromochloromethane [74-97-5] ^	2.4	UD	ug/L	5	2.4	5.0	3	EPA 8260B	01/31/14 20:28	REF	
Bromodichloromethane [75-27-4] ^	0.85	UD	ug/L	5	0.85	5.0	1	EPA 8260B	01/31/14 20:28	REF	
Bromoform [75-25-2] ^	1.1	UD	ug/L	5	1.1	5.0	3	EPA 8260B	01/31/14 20:28	REF	
Bromomethane [74-83-9] ^	0.70	UD	ug/L	5	0.70	5.0	10	EPA 8260B	01/31/14 20:28	REF	
Carbon disulfide [75-15-0] ^	7.5	UD	ug/L	5	7.5	25	100	EPA 8260B	01/31/14 20:28	REF	
Carbon tetrachloride [56-23-5] ^	0.85	UD	ug/L	5	0.85	5.0	1	EPA 8260B	01/31/14 20:28	REF	
Chlorobenzene [108-90-7] ^	**14**	D	ug/L	5	0.85	5.0	3	EPA 8260B	01/31/14 20:28	REF	
Chloroethane [75-00-3] ^	1.2	UD	ug/L	5	1.2	5.0	10	EPA 8260B	01/31/14 20:28	REF	
Chloroform [67-66-3] ^	0.90	UD	ug/L	5	0.90	5.0	5	EPA 8260B	01/31/14 20:28	REF	
Chloromethane [74-87-3] ^	0.65	UD	ug/L	5	0.65	5.0	1	EPA 8260B	01/31/14 20:28	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**370**	D	ug/L	5	0.75	5.0	5	EPA 8260B	01/31/14 20:28	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	1.0	UD	ug/L	5	1.0	5.0	1	EPA 8260B	01/31/14 20:28	REF	
Dibromochloromethane [124-48-1] ^	0.85	UD	ug/L	5	0.85	5.0	3	EPA 8260B	01/31/14 20:28	REF	
Dibromomethane [74-95-3] ^	1.4	UD	ug/L	5	1.4	5.0	10	EPA 8260B	01/31/14 20:28	REF	
Ethylbenzene [100-41-4] ^	0.65	UD	ug/L	5	0.65	5.0	1	EPA 8260B	01/31/14 20:28	REF	
Iodomethane [74-88-4] ^	8.5	UD	ug/L	5	8.5	25	10	EPA 8260B	01/31/14 20:28	REF	
Methylene chloride [75-09-2] ^	1.2	UD	ug/L	5	1.2	5.0	1	EPA 8260B	01/31/14 20:28	REF	
Styrene [100-42-5] ^	0.55	UD	ug/L	5	0.55	5.0	1	EPA 8260B	01/31/14 20:28	REF	
Tetrachloroethene [127-18-4] ^	0.85	UD	ug/L	5	0.85	5.0	1	EPA 8260B	01/31/14 20:28	REF	
Toluene [108-88-3] ^	0.70	UD	ug/L	5	0.70	5.0	1	EPA 8260B	01/31/14 20:28	REF	
trans-1,2-Dichloroethene [156-60-5] ^	**3.6**	JD	ug/L	5	1.0	5.0	5	EPA 8260B	01/31/14 20:28	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.75	UD	ug/L	5	0.75	5.0	1	EPA 8260B	01/31/14 20:28	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	3.5	UD	ug/L	5	3.5	5.0	100	EPA 8260B	01/31/14 20:28	REF	
Trichloroethene [79-01-6] ^	0.75	UD	ug/L	5	0.75	5.0	1	EPA 8260B	01/31/14 20:28	REF	
Trichlorofluoromethane [75-69-4] ^	1.2	UD	ug/L	5	1.2	5.0	1	EPA 8260B	01/31/14 20:28	REF	
Vinyl acetate [108-05-4] ^	4.8	UD	ug/L	5	4.8	25	50	EPA 8260B	01/31/14 20:28	REF	
Vinyl chloride [75-01-4] ^	**24**	D	ug/L	5	1.6	5.0	1	EPA 8260B	01/31/14 20:28	REF	

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

Lab Sample ID: C400184-14
Sampled: 01/23/14 10:44
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	2.2	UD	ug/L	5	2.2	15	5	EPA 8260B	01/31/14 20:28	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*98 %*	*51-122*	*4A31025*	*EPA 8260B*	*01/31/14 20:28*	*REF*	
Dibromofluoromethane	*49*	*1*	*50.0*	*97 %*	*68-117*	*4A31025*	*EPA 8260B*	*01/31/14 20:28*	*REF*	
Toluene-d8	*45*	*1*	*50.0*	*90 %*	*67-127*	*4A31025*	*EPA 8260B*	*01/31/14 20:28*	*REF*	

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

Lab Sample ID: C400184-14
Sampled: 01/23/14 10:44
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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	01/30/14 15:29	VLO	
Arsenic [7440-38-2] ^	**56.4**		ug/L	1	5.40	10.0	10	EPA 6010C	01/30/14 13:35	JDH	
Barium [7440-39-3] ^	**269**		ug/L	1	1.00	10.0	100	EPA 6010C	01/30/14 13:35	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	01/30/14 13:35	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/30/14 13:35	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	01/30/14 13:35	JDH	
Cobalt [7440-48-4] ^	**189**		ug/L	1	1.10	10.0	10	EPA 6010C	01/30/14 13:35	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/30/14 13:35	JDH	
Lead [7439-92-1] ^	**12.3**		ug/L	1	2.10	10.0	10	EPA 6010C	01/30/14 13:35	JDH	
Nickel [7440-02-0] ^	**59.2**		ug/L	1	1.80	10.0	50	EPA 6010C	01/30/14 13:35	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	1.00	10	EPA 6020A	01/30/14 15:29	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/30/14 13:35	JDH	
Thallium [7440-28-0] ^	**0.128**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/30/14 15:29	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/30/14 13:35	JDH	
Zinc [7440-66-6] ^	**78.7**		ug/L	1	3.80	10.0	10	EPA 6010C	01/30/14 13:35	JDH	

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

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Description: 3301-EquipmentBlank
Matrix: Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-15
Sampled: 01/24/14 14:15
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/31/14 23:54	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/31/14 23:54	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/31/14 23:54	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/31/14 23:54	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	01/31/14 23:54	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/31/14 23:54	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/31/14 23:54	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/31/14 23:54	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/31/14 23:54	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/31/14 23:54	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/31/14 23:54	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/31/14 23:54	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/31/14 23:54	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/31/14 23:54	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/31/14 23:54	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/31/14 23:54	REF	
Acetone [67-64-1] ^	**11**	J	ug/L	1	1.2	5.0	100	EPA 8260B	01/31/14 23:54	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/31/14 23:54	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/14 23:54	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/31/14 23:54	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/31/14 23:54	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/31/14 23:54	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/31/14 23:54	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/31/14 23:54	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/31/14 23:54	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/31/14 23:54	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/31/14 23:54	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/31/14 23:54	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/31/14 23:54	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/31/14 23:54	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/31/14 23:54	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/31/14 23:54	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/31/14 23:54	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/31/14 23:54	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/31/14 23:54	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/31/14 23:54	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/31/14 23:54	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/31/14 23:54	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/31/14 23:54	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/31/14 23:54	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/14 23:54	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/31/14 23:54	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/14 23:54	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/31/14 23:54	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/31/14 23:54	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/31/14 23:54	REF	

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Description: 3301-EquipmentBlank
Matrix: Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-15
Sampled: 01/24/14 14:15
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	01/31/14 23:54	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*97 %*	*51-122*	*4A31025*	*EPA 8260B*	*01/31/14 23:54*	*REF*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*68-117*	*4A31025*	*EPA 8260B*	*01/31/14 23:54*	*REF*	
Toluene-d8	*45*	*1*	*50.0*	*89 %*	*67-127*	*4A31025*	*EPA 8260B*	*01/31/14 23:54*	*REF*	

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Description: 3301-EquipmentBlank
Matrix: Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-15
Sampled: 01/24/14 14:15
Sampled By: J WATERS/ B BRYANT/ Ale

Received: 01/24/14 16:45
Work Order: C400184

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	01/30/14 15:33	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	01/30/14 13:38	JDH	
Barium [7440-39-3] ^	**1.32**	J	ug/L	1	1.00	10.0	100	EPA 6010C	01/30/14 13:38	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	01/30/14 13:38	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	01/30/14 13:38	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	01/30/14 13:38	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	01/30/14 13:38	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	01/30/14 13:38	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	01/30/14 13:38	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	01/30/14 13:38	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	1.00	10	EPA 6020A	01/30/14 15:33	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	01/30/14 13:38	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/30/14 15:33	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	01/30/14 13:38	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	01/30/14 13:38	JDH	

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

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Description: 3301-TripBlank
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-16
Sampled: 01/23/14 10:44
Sampled By: ENCO

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/28/14 20:14	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/28/14 20:14	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	01/28/14 20:14	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/28/14 20:14	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	01/28/14 20:14	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/28/14 20:14	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/28/14 20:14	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/28/14 20:14	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	01/28/14 20:14	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	01/28/14 20:14	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	01/28/14 20:14	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/28/14 20:14	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/28/14 20:14	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	01/28/14 20:14	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	01/28/14 20:14	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/28/14 20:14	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	01/28/14 20:14	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	01/28/14 20:14	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/28/14 20:14	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	01/28/14 20:14	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/28/14 20:14	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	01/28/14 20:14	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/28/14 20:14	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/28/14 20:14	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/28/14 20:14	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/28/14 20:14	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	01/28/14 20:14	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	01/28/14 20:14	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/28/14 20:14	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/28/14 20:14	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/28/14 20:14	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	01/28/14 20:14	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	01/28/14 20:14	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/28/14 20:14	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	01/28/14 20:14	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/28/14 20:14	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	01/28/14 20:14	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/28/14 20:14	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	01/28/14 20:14	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/28/14 20:14	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/28/14 20:14	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	01/28/14 20:14	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/28/14 20:14	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/28/14 20:14	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	01/28/14 20:14	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/28/14 20:14	REF	

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Description: 3301-TripBlank
Matrix: Ground Water
Project: Edgecombe County Landfill - App I

Lab Sample ID: C400184-16
Sampled: 01/23/14 10:44
Sampled By: ENCO

Received: 01/24/14 16:45
Work Order: C400184

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] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	01/28/14 20:14	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*81 %*	*51-122*	*4A28030*	*EPA 8260B*	*01/28/14 20:14*	*REF*	
Dibromofluoromethane	*36*	*1*	*50.0*	*73 %*	*68-117*	*4A28030*	*EPA 8260B*	*01/28/14 20:14*	*REF*	
Toluene-d8	*40*	*1*	*50.0*	*80 %*	*67-127*	*4A28030*	*EPA 8260B*	*01/28/14 20:14*	*REF*	

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

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4A27023 - EPA 5030B_MS

Blank (4A27023-BLK1) Prepared: 01/27/2014 12:38 Analyzed: 01/27/2014 21:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*41*			*ug/L*	*50.0*		*81*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4A27023 - EPA 5030B_MS

Blank (4A27023-BLK1) Continued Prepared: 01/27/2014 12:38 Analyzed: 01/27/2014 21:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*36*			*ug/L*	*50.0*		*72*	*68-117*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*82*	*67-127*			

LCS (4A27023-BS1) Prepared: 01/27/2014 12:38 Analyzed: 01/27/2014 21:56

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		93	75-133			
Benzene	19		1.0	ug/L	20.0		94	81-134			
Chlorobenzene	23		1.0	ug/L	20.0		114	83-117			
Toluene	19		1.0	ug/L	20.0		95	71-118			
Trichloroethene	21		1.0	ug/L	20.0		104	74-119			

Matrix Spike (4A27023-MS1) Prepared: 01/27/2014 12:38 Analyzed: 01/27/2014 22:26

Source: C401068-03

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	0.21 U	101	75-133			
Benzene	21		1.0	ug/L	20.0	0.15 U	103	81-134			
Chlorobenzene	22		1.0	ug/L	20.0	0.17 U	110	83-117			
Toluene	20		1.0	ug/L	20.0	0.14 U	98	71-118			
Trichloroethene	22		1.0	ug/L	20.0	0.15 U	109	74-119			

Matrix Spike Dup (4A27023-MSD1) Prepared: 01/27/2014 12:38 Analyzed: 01/27/2014 22:56

Source: C401068-03

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	0.21 U	93	75-133	8	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	97	81-134	6	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	104	83-117	6	16	
Toluene	18		1.0	ug/L	20.0	0.14 U	92	71-118	7	17	
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	103	74-119	6	22	

Batch 4A28030 - EPA 5030B_MS

Blank (4A28030-BLK1) Prepared: 01/28/2014 14:00 Analyzed: 01/28/2014 14:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4A28030 - EPA 5030B_MS

Blank (4A28030-BLK1) Continued Prepared: 01/28/2014 14:00 Analyzed: 01/28/2014 14:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*40*			*ug/L*	*50.0*		*79*	*51-122*			
Surrogate: Dibromofluoromethane	*36*			*ug/L*	*50.0*		*72*	*68-117*			
Surrogate: Toluene-d8	*39*			*ug/L*	*50.0*		*78*	*67-127*			

LCS (4A28030-BS1) Prepared: 01/28/2014 14:40 Analyzed: 01/28/2014 14:49

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		95	75-133			
Benzene	21		1.0	ug/L	20.0		104	81-134			
Chlorobenzene	23		1.0	ug/L	20.0		113	83-117			
Toluene	20		1.0	ug/L	20.0		98	71-118			

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Volatile Organic Compounds by GCMS - Quality Control

Batch 4A28030 - EPA 5030B_MS

LCS (4A28030-BS1) Continued

Prepared: 01/28/2014 14:40 Analyzed: 01/28/2014 14:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	22		1.0	ug/L	20.0		110	74-119			

Matrix Spike (4A28030-MS1)

Source: C401068-06

Prepared: 01/28/2014 14:40 Analyzed: 01/28/2014 15:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.21 U	90	75-133			
Benzene	20		1.0	ug/L	20.0	0.15 U	100	81-134			
Chlorobenzene	23		1.0	ug/L	20.0	0.17 U	115	83-117			
Toluene	19		1.0	ug/L	20.0	0.14 U	97	71-118			
Trichloroethene	23		1.0	ug/L	20.0	0.15 U	113	74-119			

Matrix Spike Dup (4A28030-MSD1)

Source: C401068-06

Prepared: 01/28/2014 14:40 Analyzed: 01/28/2014 15:48

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.21 U	90	75-133	0.1	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	97	81-134	4	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	107	83-117	7	16	
Toluene	19		1.0	ug/L	20.0	0.14 U	93	71-118	4	17	
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	102	74-119	10	22	

Batch 4A31025 - EPA 5030B_MS

Blank (4A31025-BLK1)

Prepared: 01/31/2014 11:22 Analyzed: 01/31/2014 18:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							

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Volatile Organic Compounds by GCMS - Quality Control

Batch 4A31025 - EPA 5030B_MS

Blank (4A31025-BLK1) Continued

Prepared: 01/31/2014 11:22 Analyzed: 01/31/2014 18:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*51-122*			
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*98*	*68-117*			
Surrogate: Toluene-d8	*44*			*ug/L*	*50.0*		*88*	*67-127*			

LCS (4A31025-BS1)

Prepared: 01/31/2014 11:22 Analyzed: 01/31/2014 18:30

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		102	75-133			
Benzene	20		1.0	ug/L	20.0		98	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		104	83-117			
Toluene	20		1.0	ug/L	20.0		101	71-118			
Trichloroethene	20		1.0	ug/L	20.0		99	74-119			

Matrix Spike (4A31025-MS1)

Source: C400250-05

Prepared: 01/31/2014 11:22 Analyzed: 01/31/2014 18:59

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	0.21 U	110	75-133			
Benzene	21		1.0	ug/L	20.0	0.15 U	104	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	107	83-117			
Toluene	21		1.0	ug/L	20.0	0.14 U	104	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	104	74-119			

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Volatile Organic Compounds by GCMS - Quality Control

Batch 4A31025 - EPA 5030B_MS

Matrix Spike Dup (4A31025-MSD1) Prepared: 01/31/2014 11:22 Analyzed: 01/31/2014 19:29

Source: C400250-05

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	0.21 U	108	75-133	2	20	
Benzene	21		1.0	ug/L	20.0	0.15 U	103	81-134	1	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	107	83-117	0.3	16	
Toluene	21		1.0	ug/L	20.0	0.14 U	105	71-118	0.4	17	
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	101	74-119	3	22	

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

Batch 4A27024 - EPA 3005A

Blank (4A27024-BLK1) Prepared: 01/27/2014 12:48 Analyzed: 01/30/2014 13:57

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	0.910	U	1.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (4A27024-BS1) Prepared: 01/27/2014 12:48 Analyzed: 01/30/2014 14:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	198		2.00	ug/L	200		99	80-120			
Selenium	218		1.00	ug/L	200		109	80-120			
Thallium	197		1.00	ug/L	200		99	80-120			

Matrix Spike (4A27024-MS1) Prepared: 01/27/2014 12:48 Analyzed: 01/30/2014 14:09

Source: C400184-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	212		2.00	ug/L	200	1.52	105	75-125			
Selenium	222		1.00	ug/L	200	0.910 U	111	75-125			
Thallium	192		1.00	ug/L	200	0.110 U	96	75-125			

Matrix Spike Dup (4A27024-MSD1) Prepared: 01/27/2014 12:48 Analyzed: 01/30/2014 14:13

Source: C400184-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	213		2.00	ug/L	200	1.52	106	75-125	0.2	20	
Selenium	222		1.00	ug/L	200	0.910 U	111	75-125	0.07	20	
Thallium	196		1.00	ug/L	200	0.110 U	98	75-125	2	20	

Post Spike (4A27024-PS1) Prepared: 01/27/2014 12:48 Analyzed: 01/30/2014 14:17

Source: C400184-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	224		2.00	ug/L	200	1.52	111	80-120			

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QUALITY CONTROL

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

Batch 4A27024 - EPA 3005A

Post Spike (4A27024-PS1) Continued

Prepared: 01/27/2014 12:48 Analyzed: 01/30/2014 14:17

Source: C400184-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Selenium	233		1.00	ug/L	200	0.712	116	80-120			
Thallium	215		1.00	ug/L	200	0.0521	108	80-120			

Batch 4A27025 - EPA 3005A

Blank (4A27025-BLK1)

Prepared: 01/27/2014 12:50 Analyzed: 01/30/2014 11:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	5.40	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	1.40	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	2.10	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 (4A27025-BS1)

Prepared: 01/27/2014 12:50 Analyzed: 01/30/2014 12:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	201		10.0	ug/L	200		101	80-120			
Barium	204		10.0	ug/L	200		102	80-120			
Beryllium	19.5		1.00	ug/L	20.0		97	80-120			
Cadmium	20.0		1.00	ug/L	20.0		100	80-120			
Chromium	195		10.0	ug/L	200		97	80-120			
Cobalt	198		10.0	ug/L	200		99	80-120			
Copper	190		10.0	ug/L	200		95	80-120			
Lead	196		10.0	ug/L	200		98	80-120			
Nickel	200		10.0	ug/L	200		100	80-120			
Silver	199		10.0	ug/L	200		99	80-120			
Vanadium	198		10.0	ug/L	200		99	80-120			
Zinc	201		10.0	ug/L	200		100	80-120			

Matrix Spike (4A27025-MS1)

Prepared: 01/27/2014 12:50 Analyzed: 01/30/2014 12:44

Source: C400184-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	209		10.0	ug/L	200	5.40 U	104	75-125			
Barium	272		10.0	ug/L	200	65.5	103	75-125			
Beryllium	19.8		1.00	ug/L	20.0	0.159	98	75-125			
Cadmium	20.2		1.00	ug/L	20.0	0.360 U	101	75-125			
Chromium	195		10.0	ug/L	200	1.40 U	97	75-125			
Cobalt	206		10.0	ug/L	200	5.11	100	75-125			

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QUALITY CONTROL

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

Batch 4A27025 - EPA 3005A

Matrix Spike (4A27025-MS1) Continued

Prepared: 01/27/2014 12:50 Analyzed: 01/30/2014 12:44

Source: C400184-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Copper	190		10.0	ug/L	200	1.60 U	95	75-125			
Lead	200		10.0	ug/L	200	2.10 U	100	75-125			
Nickel	206		10.0	ug/L	200	3.33	102	75-125			
Silver	198		10.0	ug/L	200	1.90 U	99	75-125			
Vanadium	199		10.0	ug/L	200	1.40 U	100	75-125			
Zinc	209		10.0	ug/L	200	7.04	101	75-125			

Matrix Spike Dup (4A27025-MSD1)

Prepared: 01/27/2014 12:50 Analyzed: 01/30/2014 12:46

Source: C400184-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	206		10.0	ug/L	200	5.40 U	103	75-125	1	20	
Barium	269		10.0	ug/L	200	65.5	102	75-125	1	20	
Beryllium	19.8		1.00	ug/L	20.0	0.159	98	75-125	0.2	20	
Cadmium	20.2		1.00	ug/L	20.0	0.360 U	101	75-125	0.3	20	
Chromium	195		10.0	ug/L	200	1.40 U	98	75-125	0.2	20	
Cobalt	203		10.0	ug/L	200	5.11	99	75-125	1	20	
Copper	191		10.0	ug/L	200	1.60 U	95	75-125	0.4	20	
Lead	198		10.0	ug/L	200	2.10 U	99	75-125	0.9	20	
Nickel	205		10.0	ug/L	200	3.33	101	75-125	0.9	20	
Silver	198		10.0	ug/L	200	1.90 U	99	75-125	0.2	20	
Vanadium	200		10.0	ug/L	200	1.40 U	100	75-125	0.2	20	
Zinc	208		10.0	ug/L	200	7.04	100	75-125	0.5	20	

Post Spike (4A27025-PS1)

Prepared: 01/27/2014 12:50 Analyzed: 01/30/2014 12:48

Source: C400184-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.199		0.0100	mg/L	0.200	0.00412	98	80-120			
Barium	0.266		0.0100	mg/L	0.200	0.0655	100	80-120			
Beryllium	0.0196		0.00100	mg/L	0.0200	0.000159	97	80-120			
Cadmium	0.0199		0.00100	mg/L	0.0200	0.000342	98	80-120			
Chromium	0.192		0.0100	mg/L	0.200	4.17E-6	96	80-120			
Cobalt	0.201		0.0100	mg/L	0.200	0.00511	98	80-120			
Copper	0.188		0.0100	mg/L	0.200	-0.00177	95	80-120			
Lead	0.195		0.0100	mg/L	0.200	-0.00344	99	80-120			
Nickel	0.201		0.0100	mg/L	0.200	0.00333	99	80-120			
Silver	0.191		0.0100	mg/L	0.200	0.000397	95	80-120			
Vanadium	0.197		0.0100	mg/L	0.200	-0.000226	98	80-120			
Zinc	0.205		0.0100	mg/L	0.200	0.00704	99	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.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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(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: 1054-13-276-P2
Address: 3201 Spring Forest Road	Project Name/Desc: Edgecombe County Landfill - App I
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info:
Tel: (919) 872-2660 Fax: (919) 876-3958	Reporting Contact: Sam Watts
Sampler(s) Name, Affiliation (Print): J. Winters, B. Bryant, Alex Culpepper	Billing Contact: Accounts Payable
Sampler(s) Signature: James A. Winters	Site Location / Time Zone:

Requested Analyses: 8260B Appendix 1; Ag/F,As/F,Ba/F,Be/F,Cd/F,Co/F,Cr/F,Cu/F,Ni/F,Pb/F,Sb/F,Se/F,Tl/F,V/F,Zn/F; Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C400184

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers				Sample Comments
	3301-MW3B	1/23/14	1114	Grab	GW	5	X	X	X	
	3301-MW4	1/23/14	1044		GW	5	X	X	X	
	3301-MW5	1/23/14	1540		GW	5	X	X	X	
	3301-MW6	1/24/14	1140		GW	5	X	X	X	
	3301-MW7A	1/24/14	1015		GW	5	X	X	X	
	3301-MW9	1/23/14	1208		GW	5	X	X	X	
	3301-MW12	1/24/14	1105		GW	5	X	X	X	
	3301-MW13	1/23/14	1446		GW	5	X	X	X	
	3301-MW14	1/23/14	1520		GW	5	X	X	X	
	3301-MW15	1/23/14	1630		GW	5	X	X	X	
	3301-MW16	1/24/14	1355		GW	5	X	X	X	
	3301-SW1	1/24/14	1200	—	GW	5	X	X	X	

<-- Total # of Containers

Sample Kit Prepared By: RH	Date/Time: 1/6	Relinquished By: James A. Winters	Date/Time: 1/24/14 1645	Received By: Rachel [illegible]	Date/Time: 1/24/14 1645
Comments/Special Reporting Requirements:		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler #'s & Temps on Receipt: C-203 1.8c C-958 2.6c		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil DW-Drinking Water 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

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Client Name: S&ME, Inc. (SM001)	Project Number: 1054-13-276-P2
Address: 3201 Spring Forest Road	Project Name/Desc: Edgecombe County Landfill - App I
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info:
Tel: (919) 872-2660 Fax: (919) 876-3958	Reporting Contact: Sam Watts
Sampler(s) Name, Affiliation (Print): J Waters, B. Bryant, A Culpepper	Billing Contact: Accounts Payable
Sampler(s) Signature: James A. Waters	Site Location / Time Zone:

Requested Analyses: 8260B Appendix 1; Ag/F, As/F, Ba/F, Be/F, Cd/F, Co/F, Cr/F, Cu/F, Fe/F, Mn/F, Mo/F, Ni/F, Pb/F, Sb/F, Se/F, Tl/F, V/F, Zn/F; Ag, As, Ba, Be, Cd, Co, Cr, Cu, Ni, Pb, Sb, Se, Tl, V, Zn

Preservation (See Codes) (Combine as necessary)

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C400184

Bottle #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag/F, As/F, Ba/F, Be/F, Cd/F, Co/F, Cr/F, Cu/F, Fe/F, Mn/F, Mo/F, Ni/F, Pb/F, Sb/F, Se/F, Tl/F, V/F, Zn/F	Ag, As, Ba, Be, Cd, Co, Cr, Cu, Ni, Pb, Sb, Se, Tl, V, Zn								Sample Comments
	3301-SW2	1/24/14	1330	Grab	GW	5	X	X	X								
	3301-Duplicate	1/23/14			GW	5	X	X	X								
	3301-EquipmentBlank	1/24/14	1415		WA	5	X	X	X								
	Trip Blank				GW	3	X										

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: James A. Waters	Date/Time: 1/24/14 1645	Received By: Rachel [illegible]	Date/Time: 1/24/14 1645
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil DW-Drinking Water 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.	1054-13-276
SHEET NO.	1 of 1
DATE	1/23/2014
COMPUTED BY	GHP
CHECKED BY	SPW

JOB NAME Edgecombe County Landfill
SUBJECT Hydraulic Gradient

PURPOSE:

To determine the average true hydraulic gradient.

GIVEN:

Well	GW Elev
MW-3B	74.26
MW-5	42.38
MW-7A	64.68
P-1	68.78

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.

$$i_1 = \frac{\text{MW-3B} - \text{MW-5}}{L_1} = \frac{74.26 - 42.38}{1{,}485} = \mathbf{0.02147} \quad \mathbf{ft/ft}$$

Use Elevation of Groundwater at MW-7A to establish 54.54' elevation between MW-3B and MW-5.

$$\frac{\text{MW-3B - MW-7A}}{\text{gradient (MW-3B and MW-5)}} = \frac{74.26 - 64.68}{0.02147} = 446.25 \quad \text{ft}$$

Draw line from MW-7A to point located 893.04 feet from MW-3B to MW-5.

Measure new distance between MW-3B and MW-5 perpendicular to line plotted for 52.45' contour. Recalculate Gradient.

$$i_1 = \frac{\text{MW-3B} - \text{MW-5}}{\text{New } L_1} = \frac{74.26 - 42.38}{1{,}475} = \mathbf{0.02161} \quad \mathbf{ft/ft}$$

True Hydraulic Gradient, i_1 = 0.02161 ft/ft

$$i_2 = \frac{\text{P-1} - \text{MW-5}}{L_2} = \frac{68.78 - 42.38}{1{,}320} = \mathbf{0.02000} \quad \mathbf{ft/ft}$$

Use Elevation of Groundwater at MW-7A to establish 54.54' elevation between P-1 and MW-5.

$$\frac{\text{P-1 - MW-7A}}{\text{gradient (P-1 and MW-5)}} = \frac{68.78 - 64.68}{0.020000} = 205.00 \quad \text{ft}$$

Draw line from MW-7A to point located 629.42 feet from P-1 to MW-5.

Measure new distance between P-1 and MW-5 perpendicular to line plotted for 52.45' contour. Recalculate Gradient.

$$i_2 = \frac{\text{P-1} - \text{MW-5}}{\text{New } L_2} = \frac{68.78 - 42.38}{1{,}202} = \mathbf{0.02196} \quad \mathbf{ft/ft}$$

True Hydraulic Gradient, i_2 = 0.02196 ft/ft

AVERAGE TRUE HYDRAULIC GRADIENT, i_{VG} = 0.0218 ft/ft

CONCLUSION:

The Average True Hydraulic gradient, i_{VG} equals **0.0218 ft/ft**.

JOB NO.	1054-13-276
SHEET NO.	1 of 1
DATE	1/23/2014
COMPUTED BY	GHP
CHECKED BY	SPW

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):	**0.0218**	**ft/ft**
n:	**15%**	

$$V = \frac{K_{A\ ZONE}\, i}{n}$$

$$V = \frac{61.561\ ft/yr * 0.0218\ ft/ft}{0.15} = 8.9469\ ft/yr$$

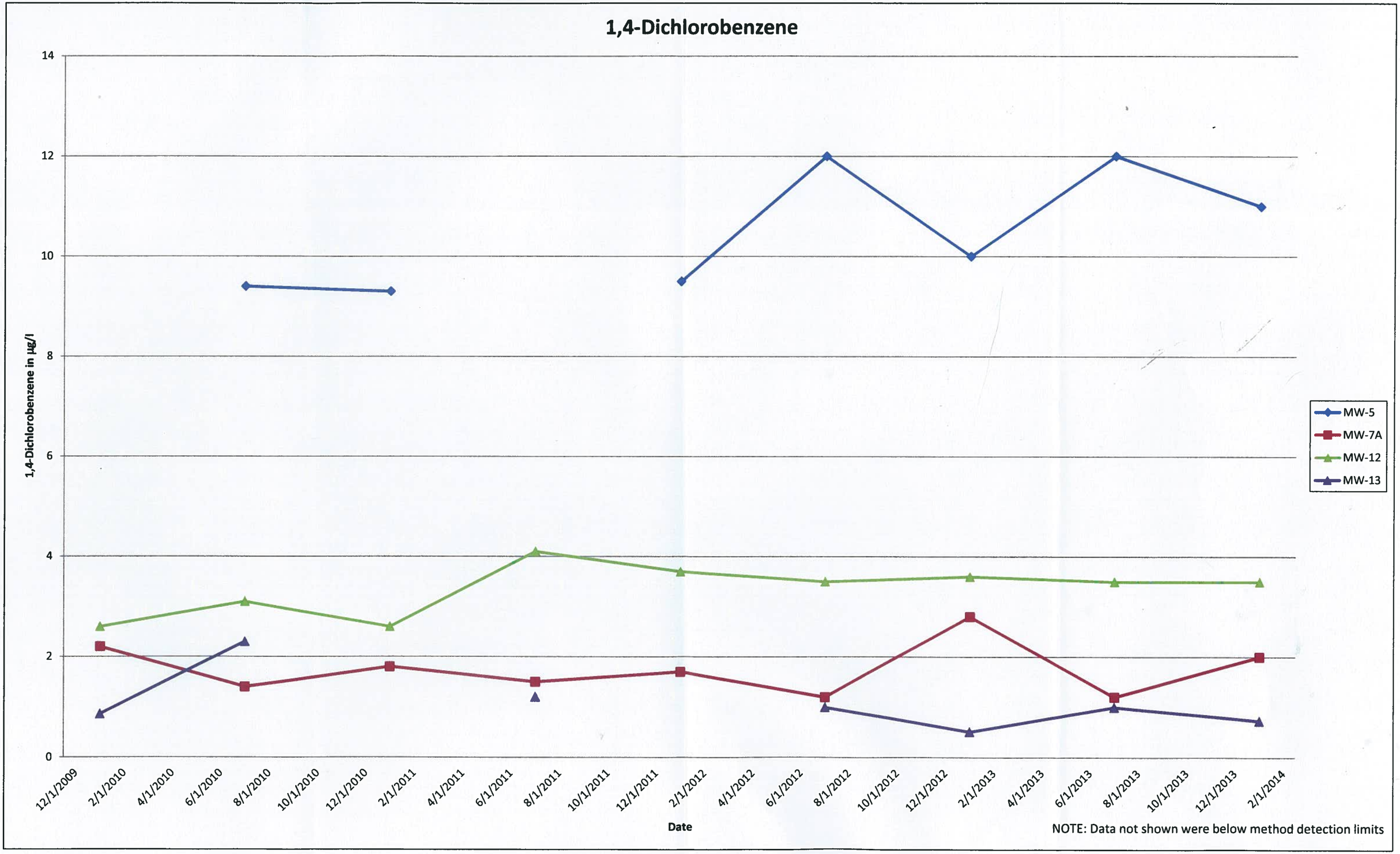
CONCLUSION:

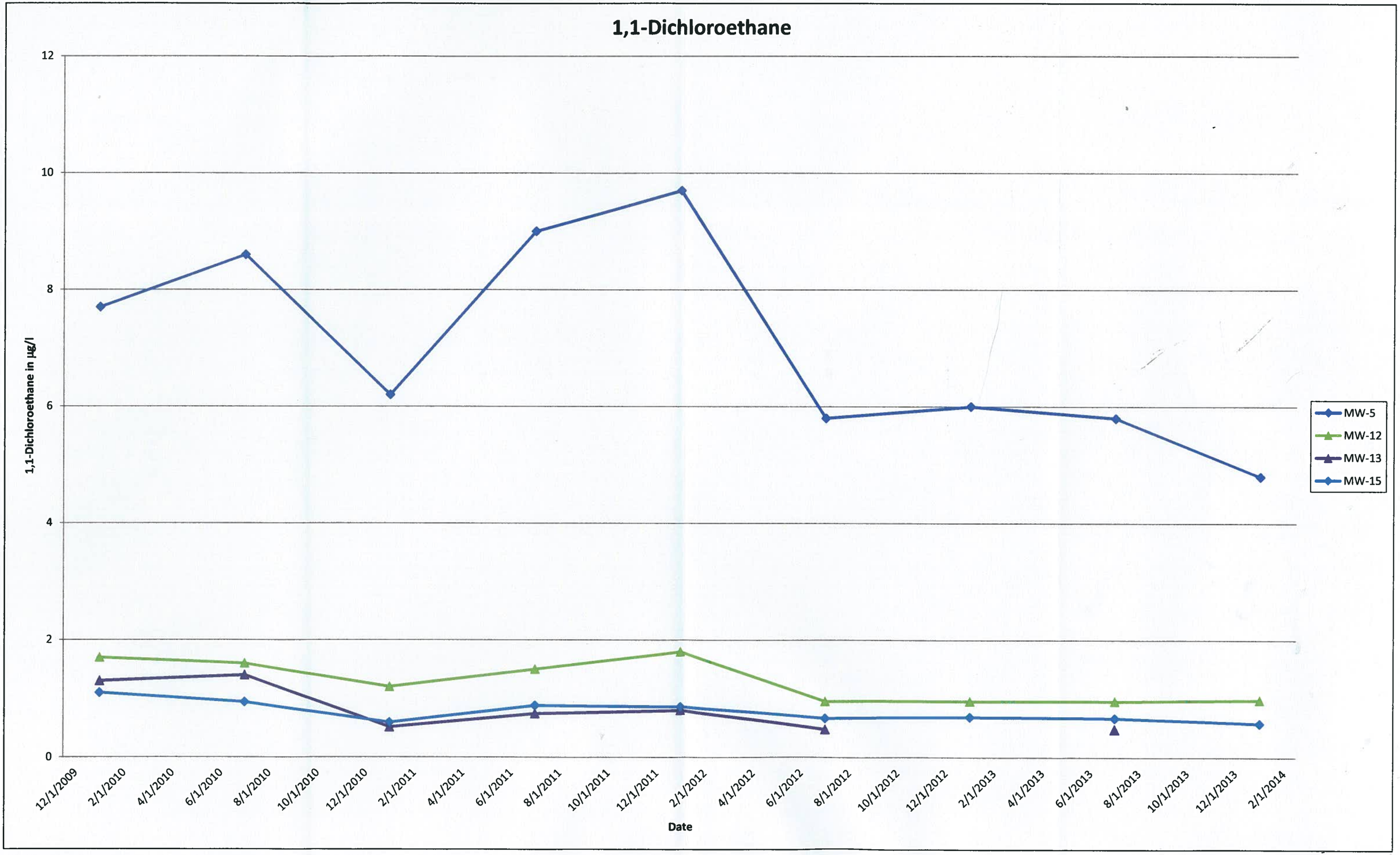
The average groundwater flow velocity, V, equals **8.9469 ft/yr**.

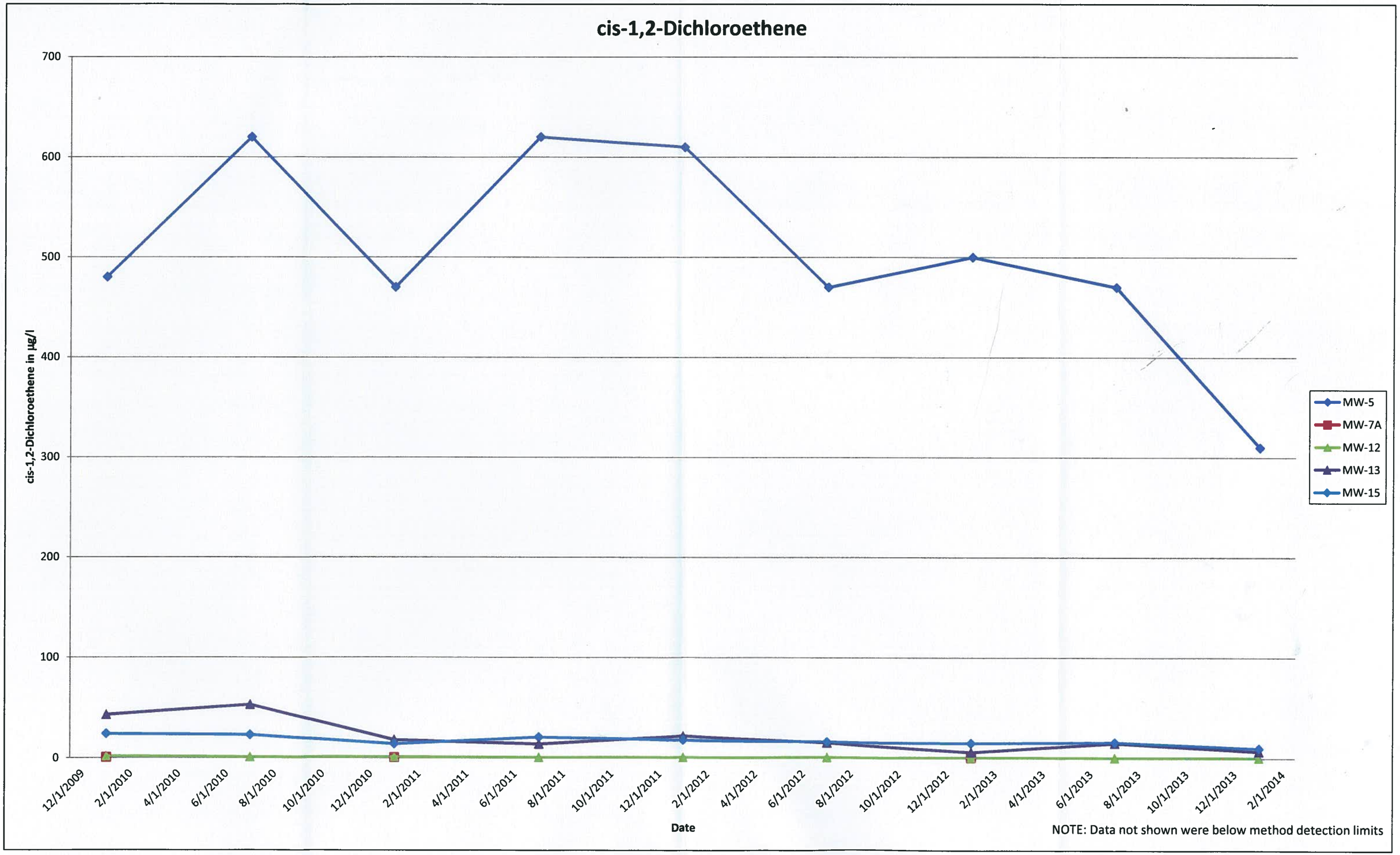
APPENDIX IV

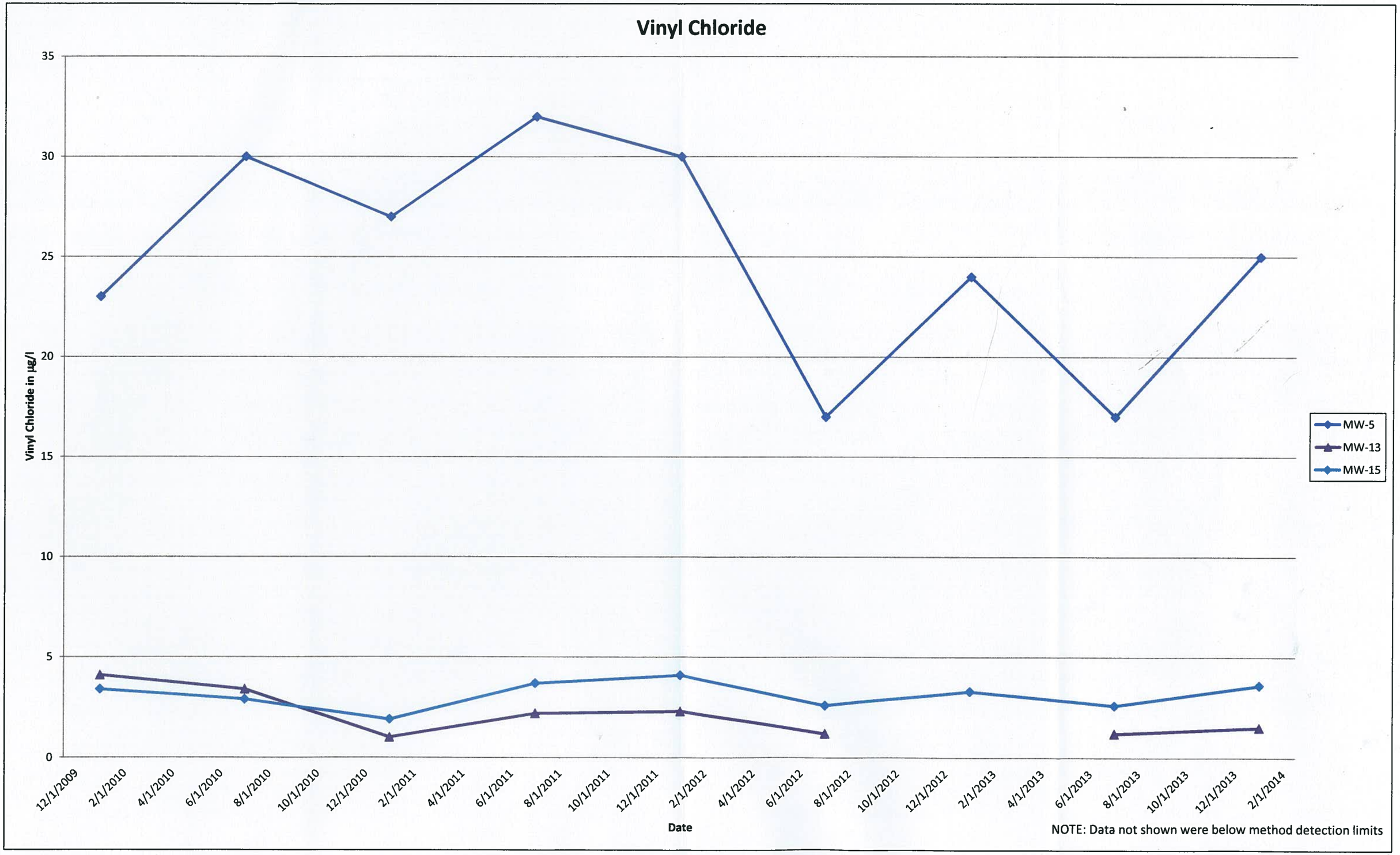
(TIME SERIES GRAPHS FOR MONITOR WELLS)

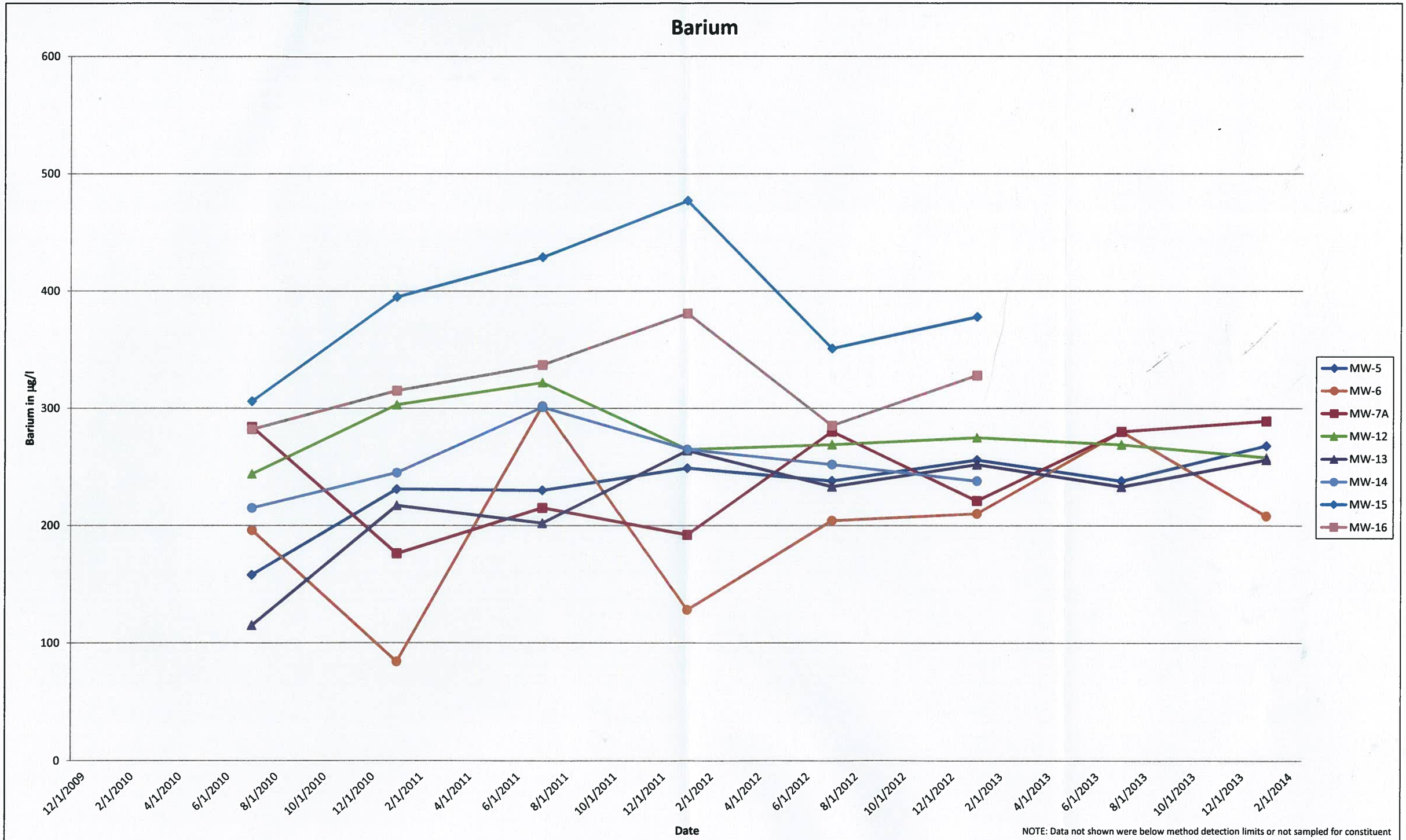
Benzene
Benzene in µg/l
6
5
4
3
2
1
0
12/1/2009
2/1/2010
4/1/2010
6/1/2010
8/1/2010
10/1/2010
12/1/2010
2/1/2011
4/1/2011
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
6/1/2012
8/1/2012
10/1/2012
12/1/2012
2/1/2013
4/1/2013
6/1/2013
8/1/2013
10/1/2013
12/1/2013
2/1/2014
Date
MW-5
MW-7A
MW-12
MW-13
MW-15
NOTE: Data not shown were below method detection limits

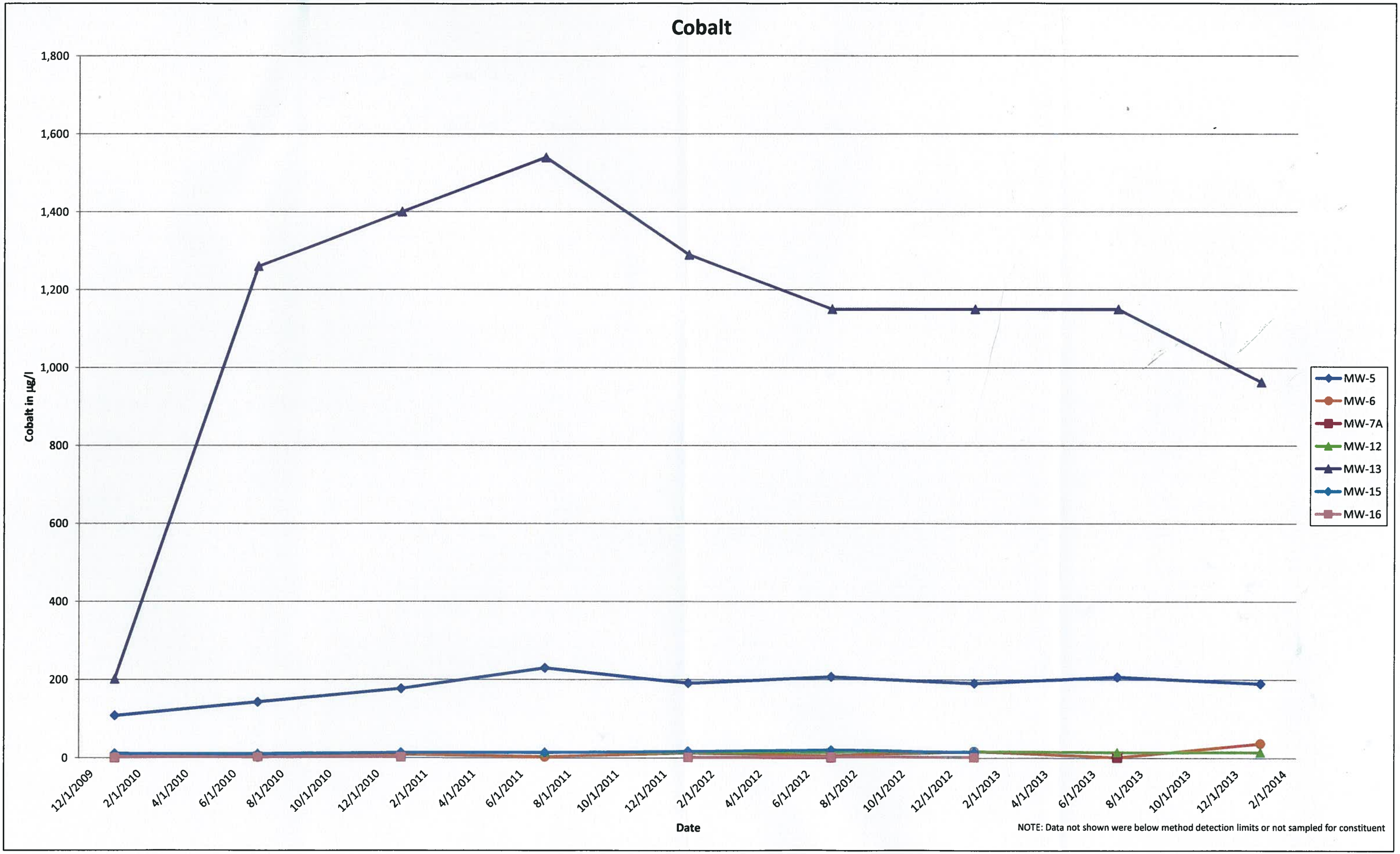

1,4-Dichlorobenzene
1,4-Dichlorobenzene in µg/l
14
12
10
8
6
4
2
0
12/1/2009
2/1/2010
4/1/2010
6/1/2010
8/1/2010
10/1/2010
12/1/2010
2/1/2011
4/1/2011
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
6/1/2012
8/1/2012
10/1/2012
12/1/2012
2/1/2013
4/1/2013
6/1/2013
8/1/2013
10/1/2013
12/1/2013
2/1/2014
Date
MW-5
MW-7A
MW-12
MW-13
NOTE: Data not shown were below method detection limits

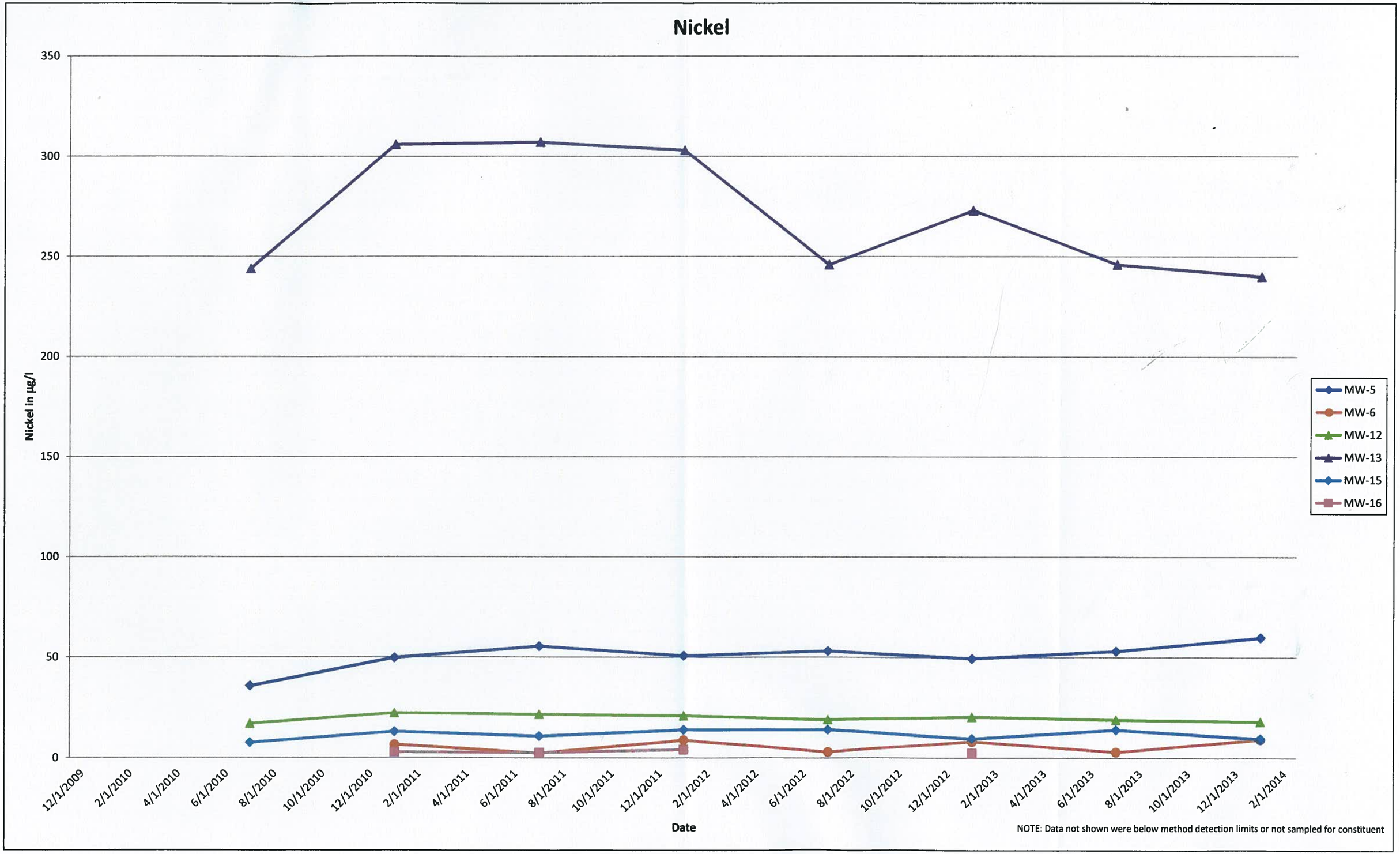

1,1-Dichloroethane
1,1-Dichloroethane in µg/l
12
10
8
6
4
2
0
12/1/2009
2/1/2010
4/1/2010
6/1/2010
8/1/2010
10/1/2010
12/1/2010
2/1/2011
4/1/2011
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
6/1/2012
8/1/2012
10/1/2012
12/1/2012
2/1/2013
4/1/2013
6/1/2013
8/1/2013
10/1/2013
12/1/2013
2/1/2014
Date
MW-5
MW-12
MW-13
MW-15


cis-1,2-Dichloroethene
cis-1,2-Dichloroethene in µg/l
700
600
500
400
300
200
100
0
12/1/2009
2/1/2010
4/1/2010
6/1/2010
8/1/2010
10/1/2010
12/1/2010
2/1/2011
4/1/2011
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
6/1/2012
8/1/2012
10/1/2012
12/1/2012
2/1/2013
4/1/2013
6/1/2013
8/1/2013
10/1/2013
12/1/2013
2/1/2014
Date
MW-5
MW-7A
MW-12
MW-13
MW-15
NOTE: Data not shown were below method detection limits


Vinyl Chloride
Vinyl Chloride in µg/l
35
30
25
20
15
10
5
0
12/1/2009
2/1/2010
4/1/2010
6/1/2010
8/1/2010
10/1/2010
12/1/2010
2/1/2011
4/1/2011
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
6/1/2012
8/1/2012
10/1/2012
12/1/2012
2/1/2013
4/1/2013
6/1/2013
8/1/2013
10/1/2013
12/1/2013
2/1/2014
Date
MW-5
MW-13
MW-15
NOTE: Data not shown were below method detection limits


Barium
600
500
400
300
200
100
0
Barium in µg/l
12/1/2009
2/1/2010
4/1/2010
6/1/2010
8/1/2010
10/1/2010
12/1/2010
2/1/2011
4/1/2011
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
6/1/2012
8/1/2012
10/1/2012
12/1/2012
2/1/2013
4/1/2013
6/1/2013
8/1/2013
10/1/2013
12/1/2013
2/1/2014
Date
MW-5
MW-6
MW-7A
MW-12
MW-13
MW-14
MW-15
MW-16
NOTE: Data not shown were below method detection limits or not sampled for constituent


Cobalt
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
Cobalt in µg/l
12/1/2009
2/1/2010
4/1/2010
6/1/2010
8/1/2010
10/1/2010
12/1/2010
2/1/2011
4/1/2011
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
6/1/2012
8/1/2012
10/1/2012
12/1/2012
2/1/2013
4/1/2013
6/1/2013
8/1/2013
10/1/2013
12/1/2013
2/1/2014
Date
MW-5
MW-6
MW-7A
MW-12
MW-13
MW-15
MW-16
NOTE: Data not shown were below method detection limits or not sampled for constituent


Nickel
350
300
250
200
150
100
50
0
Nickel in µg/l
12/1/2009
2/1/2010
4/1/2010
6/1/2010
8/1/2010
10/1/2010
12/1/2010
2/1/2011
4/1/2011
6/1/2011
8/1/2011
10/1/2011
12/1/2011
2/1/2012
4/1/2012
6/1/2012
8/1/2012
10/1/2012
12/1/2012
2/1/2013
4/1/2013
6/1/2013
8/1/2013
10/1/2013
12/1/2013
2/1/2014
Date
MW-5
MW-6
MW-12
MW-13
MW-15
MW-16
NOTE: Data not shown were below method detection limits or not sampled for constituent