March 1, 2013

Mr. Ervin Lane
Compliance Hydrogeologist
NCDENR/Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646

RE: 1st Semiannual Water Quality Monitoring Report of 2013
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Dear Mr. Lane,

Republic Services of North Carolina, LLC is submitting the First Semiannual Water Quality Monitoring Report of 2013 for the East Carolina Regional Landfill, Permit No. 08-03, in electronic format on the enclosed CD, as required by the North Carolina Division of Waste Management, Solid Waste Section. The CD also includes the electronic data deliverables (EDD) from the laboratory. Also enclosed is the original hard copy Environmental Monitoring Reporting Form. This report completes the first Semiannual Compliance Monitoring event of 2013 for the East Carolina Regional Landfill as required by the North Carolina Division of Waste Management, Solid Waste Section. If you have any questions, please contact Van Burbach or Alex Everhart with Joyce Engineering at (336) 323-0092or me at (919) 354-3227.

Sincerely,

Matt Einsmann, P.E.
Environmental Manager

Enclosure

cc: Ray Hoffman, P.E., Area Engineer, Republic Services
Matt East, Division Manager, East Carolina Regional Landfill, Republic Services
Van Burbach, Joyce Engineering

1220 Commerce St SW, Box 1
Conover, NC 28613
Phone 828.464.2414 • Fax 828.464.2433
Toll Free 866.473.7778
www.republicservices.com

PREPARED FOR:

REPUBLIC SERVICES OF NORTH CAROLINA, LLC
D.B.A. EAST CAROLINA ENVIRONMENTAL
1922 REPUBLICAN ROAD
AULANDER, NORTH CAROLINA 27805

EAST CAROLINA REGIONAL LANDFILL
PERMIT NO. 08-03

FIRST SEMIANNUAL WATER QUALITY MONITORING REPORT OF 2013

FEBRUARY 2013

PREPARED BY:

2211 WEST MEADOWVIEW ROAD, SUITE 101
GREENSBORO, NORTH CAROLINA 27407
NC LICENSE NUMBER C-0782
PHONE: (336) 323-0092
FAX: (336) 323-0093
JOYCE PROJECT NO. 00849.1301.12

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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- 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):

Joyce Engineering on behalf of Republic Services of NC, LLC

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

Name: G. Van Ness Burbach, Ph.D., P.G. Phone: (336)-323-0092

E-mail: vburbach@joyceengineering.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
East Carolina Regional Landfill	1922 Republican Road Aulander, NC 27805	08-03	.1600	January 28-29, 2013

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.

G. VanNess Burbach, Ph.D., PG — Technical Consultant — (336)-323-0092

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

Signature — Date: 2/18/13

Affix NC Licensed Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1349 GEOLOGIST G. VAN NESS BURBACH

2211 W. Meadowview Rd. Ste. 101, Greensboro, NC 27407

Facility Representative Address

C-0782

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

Revised 6/2009

Executive Summary

This report presents the results of the first semiannual water quality monitoring event conducted at the East Carolina Regional Landfill on January 28-29, 2013. Samples were collected by representatives of Joyce Engineering for groundwater monitoring wells, surface water monitoring points, and the leachate collection system. The analytical results from the January 2013 monitoring event have been reported by Analytical Services, Inc. of Norcross, Georgia.

One organic constituent (toluene) and four inorganic constituents (barium, beryllium cobalt and zinc) were detected in samples from one or more groundwater or surface water monitoring points at concentrations above their respective Solid Waste Section Reporting Limits (SWSLs). Toluene was detected above the SWSL in GW-2. Barium was detected above the SWSL in GW-2, GW-9, GW-10, GW-13, GW-15, GW-17, and SW-1. Beryllium was detected above the SWSL in GW-7, and GW-9. Cobalt was detected above the SWSL in GW-7. Zinc was detected above the SWSL in PW-1, SW-1 and SW-4. No other inorganic or organic constituents were detected above their respective SWSLs in monitoring wells or surface water monitoring points during the January 2013 monitoring event.

One inorganic constituent (cobalt) was detected at a quantified concentration in monitoring well GW-7 above its respective Solid Waste Section(SWS) Groundwater Protection Standard (GWPS) during the January 2013 event. No other inorganic or organic constituents were detected at quantified concentrations above their respective NC 2L or GWPS during the January 2013 event. The cobalt detection was statistically evaluated in accordance with the procedures outlined in 15A NCAC 13B.1632 (g) and (h) to determine if the quantified concentration exceeded the facility background concentration. Based on the statistical evaluation, the detection of cobalt was not identified as statistically significant and is representative of historical background concentrations. Zinc was detected above its respective NC 2B surface water standard in surface water monitoring point SW-4 during the January 2013 event. The detection of zinc in SW-4 is consistent with historical surface water data for the facility and no further action is required. No other inorganic or organic constituents were detected at quantified concentrations above their respective NC 2L, GWPS, or NC 2B surface water standards during the January 2013 event.

Based on the results summarized herein, Republic Services of NC, LLC, will continue monitoring the uppermost aquifer beneath the East Carolina Regional Landfill in accordance with the requirements for Detection Monitoring Program as outlined in Title 15A NCAC 13B .1633.

First Semiannual Water Quality Monitoring Report of 2013
East Carolina Regional Landfill
Bertie County, North Carolina

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1.0 INTRODUCTION

This report summarizes the monitoring results from the January 28-29, 2013 water quality monitoring event at the East Carolina Regional Landfill in Bertie County, North Carolina in accordance with Title 15A of the North Carolina Administrative Code (NCAC) Subchapter 13B .1632. The East Carolina Regional Landfill, which is an active municipal solid waste landfill, is owned and operated by Republic Services of North Carolina, LLC (Republic) under Permit No. 08-03, issued by the North Carolina Department of Environment and Natural Resources (DENR).

1.1 Site Description and Background

The East Carolina Regional Landfill is an active Subtitle D municipal solid waste landfill that began operating in 1993. The location of the facility is shown on the inlay on Drawing 1. The East Carolina Regional Landfill is located approximately 7.5 miles northwest of Windsor, NC at the intersection of State Routes 1221 and 1225. The facility is bounded to the north and east by undeveloped property and the Connaritsa Swamp, to the west by State Route 1225 and undeveloped and agricultural property, and to the south by State Route 1221, wooded property, and undeveloped bottomlands associated with the easterly flowing Cashie River.

Topographic elevations at the facility range from approximately 30 to 70 feet above mean sea level. Along the northern and eastern portions of the facility, surface drainage from the facility and surrounding areas is routed by drainage channels and storm water control structures to tributaries of the southerly flowing Connaritsa Swamp, a tributary system of the Cashie River. Along the western and southern portions of the facility, surface drainage from the facility and surrounding areas is routed by drainage channels and storm water control structures to tributaries of the southeasterly flowing Cashie River. The Cashie River discharges to the Roanoke River south of the Town of Windsor.

1.2 Compliance Monitoring History

Groundwater monitoring at the facility was initiated in January 1995 under the Detection Monitoring Program for municipal solid waste landfills. The facility's monitoring network historically consisted of 14 monitoring wells (GW-1 through GW-14), which monitored the uppermost Yorktown Formation (GW-2, GW-3, GW-5, GW-7 through GW-11, GW-13, and GW-14) and the lower Black Creek Formation (GW-1, GW-4, GW-6, and GW-12). Monitoring wells GW-1 and GW-2 were considered upgradient background wells and the remaining wells were considered to be downgradient or side-gradient compliance wells.

In accordance with the facility's permit, the current compliance monitoring network monitors the Yorktown formation and is composed of GW-2 (background), GW-7, GW-8, GW-9, GW-10, GW-11, GW-13, GW-15, GW-16R, and GW-17, with the remaining monitoring wells used for static water level observation. Per the June 2005 revision to the Water Monitoring Procedures

(BLE, 2005), the groundwater wells screened in the Black Creek Formation are no longer sampled. Well GW-16 was decommissioned following the January 2007 sampling event during the construction of Cell 12. Bunnell Lammons Engineering, Inc. (BLE) installed monitoring well GW-16R as a replacement well prior to the January 2008 monitoring event. BLE installed GW-17 following the January 2008 sampling event as an additional monitoring well during the construction of Cell 12. Monitoring well GW-14 was decommissioned and GW-18 was installed prior to the January 2009 water quality monitoring event in order to construct Cell 13. Piezometer PZ-110 was renamed GW-21 prior to the January 2009 water quality monitoring event. A background sampling event for GW-18 and GW-21 was performed during the January 2009 monitoring event. Wells GW-18 and GW-21 will become part of the compliance network once Cell 13 is constructed and begins receiving waste.

In addition to the routine groundwater monitoring points, the facility's monitoring network includes one upstream surface water monitoring point (SW-1), and three downstream surface water sampling points (SW-2, SW-3, and SW-4), which are sampled in conjunction with the groundwater monitoring wells. Water supply well PW-1 is sampled during each routine monitoring event. The leachate is also sampled semiannually per the Solid Waste Section requirements.

1.3 Hydrogeologic Setting

Geologically, the facility is located within the Carolina Coastal Plain Physiographic Province of NC (NCGS 1985). The Coastal Plain Province is generally described as being composed of easterly dipping strata that thicken towards the east. Based on hydrogeologic characteristics, these strata are generally classified as aquifer systems separated by aquitard units. The strata underlying the facility include the Tertiary Yorktown Formation and the Cretaceous Black Creek Formation, both of which are classified as aquifers. The Yorktown Formation is unconfined at this location, and the lower Black Creek Formation, which is separated from the overlying Yorktown Formation by a low permeability unit, is confined.

The uppermost groundwater beneath the facility is present in the shallow, unconfined Yorktown Aquifer. Depending on topographic elevation, the depth to water in the Yorktown Formation ranges from approximately 5 feet below grade along the southwestern perimeter of the facility to approximately 25 feet below grade near the central and northeastern portion of the facility. In the lower Black Creek Formation, the depth to water ranges from 10 to 20 feet below grade in the monitoring wells screened in this unit. Historical static water level data are presented on Tables 1 and 2.

As presented on Table 1, the hydraulic head level in the uppermost Yorktown aquifer beneath the facility is fairly consistent, with temporal variation from the long-term average limited to approximately nine feet in the upgradient well and somewhat less in the downgradient wells. Similarly, as presented in Table 2, the fluctuation in the Black Creek aquifer is limited to approximately six feet. As expected, the range in fluctuation appears to be greater in the

upgradient wells, as these wells are more centrally located to the regional groundwater recharge area. The range in fluctuation in the downgradient compliance wells, which are generally located near groundwater discharge areas, is less likely due to the stabilizing effect of hydraulic discharge boundaries.

Static water level measurements obtained during the January 28-29, 2013 sampling event were used to prepare the groundwater surface contours presented on Drawing 1. In the upper Yorktown Formation, groundwater flow across most of the site is toward the south-southwest. This is consistent with previously submitted interpretations for this facility. Previous maps of the Black Creek Formation show an apparent flow direction towards the southeast.

Based on the January 28-29, 2013 potentiometric surface contour map, the hydraulic gradient in the uppermost aquifer underlying the site, as measured along the conceptual flow paths shown on the contour map, was calculated to be approximately 0.00178 to 0.0087 ft/ft (Table 3). The estimated rate of groundwater flow for the uppermost aquifer beneath the facility was calculated using the following modified Darcy equation:

$$V_{gw} = Ki/_{ne}$$

Where V_{gw} = average linear velocity (feet per day), K = hydraulic conductivity (feet per day), i = horizontal hydraulic gradient, and $_{ne}$ = effective porosity.

The average estimated linear groundwater flow velocity under the waste management unit is approximately 0.00616 to 0.00647 ft/day generally to the southwest (Table 3). The linear velocity equation and resultant rates are based on the simplified assumptions of a homogeneous and isotropic aquifer. This equation can overestimate velocity when applied to heterogeneous and/or anisotropic conditions.

2.0 FIELD PROGRAM, MONITORING RESULTS, AND DISCUSSION

2.1 Visual Inspection Program

In order to detect potential releases of leachate and/or landfill gas migration in a timely manner, a visual inspection program has been implemented at the East Carolina Regional Landfill. This inspection program involves field personnel making the following observations:

- Observation of stress induced on the biological community (i.e., dead or dying vegetation),
- Indications of leachate impact (i.e., seeps, impacted surface water),
- Observations of erosion; and
- Negative changes around the waste facility.

During the January 2013 monitoring event, no physical indicators were observed in the vicinity

of the waste management areas.

2.2 Well Network and Groundwater Elevation Measurements

Monitoring well GW-2 is the facility's background well and monitoring wells GW-7, GW-8, GW-9, GW-10, GW-11, GW-13, GW-15, GW-16R, and GW-17 are the facility's compliance wells. These wells are all screened within the upper Yorktown Formation. Wells GW-18 and GW-21 have been installed, but have not been included as part of the monitoring network at this time. The remaining monitoring wells are used as observation wells to monitor the depth to groundwater. Monitoring well construction information is summarized in Table 4 and the well locations are shown on Drawing 1. The network of monitoring wells was constructed to intercept the flow path for groundwater in the uppermost aquifer underlying the waste disposal areas.

Depth-to-water measurements were recorded to the nearest 0.01 foot prior to initiating groundwater purging and sampling activities. The water level elevations for this event are presented in Tables 1 and 2.

2.3 January 2013 Monitoring Event

Personnel from Joyce Engineering visited the facility on January 28-29, 2013 to purge and sample monitoring wells GW-2, GW-7, GW-8, GW-9, GW-10, GW-11, GW-13, GW-15, GW-16R, and GW-17. In addition to the groundwater samples from the monitoring wells, a groundwater sample was collected from the on-site water supply well (PW-1) and a leachate sample was collected from the facility's holding tank (Tank B). Additional depth-to-water measurements were obtained from GW-1, GW-3, GW-4, GW-5, GW-6, GW-12, GW-18, and GW-21. Surface water samples were collected from one upstream (SW-1) and three downstream monitoring points (SW-2, SW-3 and SW-4).

Monitoring wells GW-2, GW-7, GW-8, GW-9, GW-10, GW-11, GW-13, GW-15, GW-16R, and GW-17 were purged with dedicated bladder pumps using micropurge procedures pursuant to the facility's approved monitoring plan. Measurements of pH, specific conductance, dissolved oxygen, oxidation-reduction potential, temperature, and turbidity were recorded after each system volume collected during the purge with field-calibrated instruments to monitor for stabilization of water quality.

Prior to sampling, the laboratory-supplied sample containers were prepared. Each sample container was labeled with the sample identification number, sampling personnel, date and time of sample collection, project name and number, and requested chemical analyses.

The required groundwater samples were collected directly from the dedicated bladder pump discharge lines in the labeled, laboratory-supplied, pre-preserved sample containers after purging was completed based on stabilization of all field parameters. The on-site supply well was purged

for 15 minutes by the spigot prior to sample collection. After collection, the samples were placed in a cooler on ice, under chain-of-custody control. Copies of the sampling logs are presented in Appendix A. Included in each log is a description of the sampling location, sampling equipment, sampling method, field observations, and field parameters.

The surface water samples were collected directly from the stream flow, by lowering the sample containers into the stream flow with the opening facing away from the current flow, taking care to prevent the over flow of the sample containers and to minimize sample induced turbidity. Measurements of temperature, pH, specific conductivity, and turbidity were recorded during the collection of the surface water samples.

The leachate sample was collected directly from the leachate piping manifold that serves the leachate holding tank (Tank B). Measurements of temperature, pH, specific conductivity, and turbidity were recorded during the collection of the leachate sample.

2.4 Laboratory Analysis Program

The January 28-29, 2013 groundwater, surface water, and leachate samples were submitted to Analytical Services, Inc. of Norcross, Georgia under chain-of-custody control for analysis. The groundwater and surface water, including the Field Blank, were analyzed for North Carolina Appendix I constituents. The leachate sample was analyzed for NC Appendix I constituents, mercury, biochemical oxygen demand, chemical oxygen demand, cyanide, nitrate as N, nitrate/nitrite as N, nitrite as N, phosphorous, sulfate, total kjeldahl nitrogen, total suspended solids, phenolics, and oil & grease. The Trip Blank was analyzed for North Carolina Appendix I organic constituents only. Joyce personnel requested a Level II data report for the final laboratory report. The samples were received by the laboratory on January 30, 2013 in good condition, properly preserved, and within analysis hold times.

2.5 January 2013 Sampling Results

Analytical results for the January 2013 groundwater, surface water, and leachate samples are summarized in Tables 5, 6, and 7 with available historical data. The laboratory's certificates-of-analysis and chains-of-custody form for this monitoring event are included in Appendix B.

As presented in Table 5 and the laboratory certificates-of-analysis, one NC Appendix I organic constituent (toluene) and four NC Appendix I inorganic constituents (barium, beryllium cobalt and zinc) were detected in samples from one or more groundwater or surface water monitoring points at concentrations above their respective Solid Waste Section Reporting Limits (SWSL) during the January 2013 sampling event. Toluene was detected above the SWSL in GW-2. Barium was detected above the SWSL in GW-2, GW-9, GW-10, GW-13, GW-15, GW-17, and SW-1. Beryllium was detected above the SWSL in GW-7, and GW-9. Cobalt was detected above the SWSL in GW-7. Zinc was detected above the SWSL in PW-1, SW-1 and SW-4. No other NC Appendix I constituents were detected above their respective SWSLs in monitoring wells or

surface water monitoring points during the January 2013 monitoring event. The results are generally consistent with historical concentrations.

The constituent concentrations reported for the leachate samples collected during the January 2013 sampling event are generally consistent with historical data.

3.0 LABORATORY AND FIELD QA/QC

A Field Blank was collected by Joyce personnel as part of the January 2013 monitoring event. In addition to the Field Blank, a laboratory-prepared Trip Blank accompanied the volatile sample containers for the sampling event to and from the laboratory. The Field Blank was analyzed for NC Appendix I constituents and the Trip Blank for NC Appendix I VOCs only. In addition to the Field and Trip Blanks, at least one Method Blank was analyzed by the laboratory for each method used.

Upon receipt of the laboratory data package, the data was reviewed by Joyce personnel for the following:

- General typographical errors,
- Correct analyses performed and within method specified hold times,
- Correct reporting limits
- Biased data results based on Surrogate Recoveries, Matrix Spike, Matrix Spike Duplicate, and Laboratory Control Samples,
- Blank qualified data (B-flags),
- Detections above the groundwater and surface water standards; and
- Detections that are above historical levels.

4.0 DATA EVALUATION

4.1 Comparisons to Groundwater and Surface Water Standards

One NC Appendix I constituent (cobalt) was detected at a quantified concentration in monitoring well GW-7 above the Solid Waste Section's Groundwater Protection Standard (GWPS) during the January 2013 sampling event. There were no other NC Appendix I constituents detected above the GWPS or NC 2L standards in monitoring wells from the compliance monitoring network during the January 2013 monitoring event.

One NC Appendix I constituent (zinc) was detected in the sample collected from the surface water monitoring point SW-4 at a concentration above the NC 2B standard during the January 2013 event. The detection of zinc in SW-4 is consistent with historical surface water data for the facility and no further action is required. There were no other NC Appendix I constituents

detected above the NC 2B standards in surface water monitoring points during the January 2013 monitoring event.

4.2 Statistical Evaluations

The data were evaluated through the use of the Shapiro-Wilkes Test, Parametric Prediction Limits, Parametric Tolerance Intervals, Aitchison's Adjustment, Non-parametric Prediction Limits, and Poisson Prediction Limits, as appropriate. Background data, tests for normality, outliers, Aitchison's adjustment, tolerance interval, or prediction limits are used, as appropriate based on the background data.

The statistical test by which downgradient data are compared to facility background data is based upon the nature of the data and the number of data values that are less than the laboratory limit of detection. All statistical tests are evaluated at the 0.05 level of significance, 95% confidence level, and are conducted as one-tailed tests.

Cobalt was detected in the sample from downgradient monitoring well GW-7 above the SWSL and the GWPS during the January 2013 sampling event. The cobalt detection was statistically evaluated in accordance with the procedures outlined in 15A NCAC 13B.1632 (g) and (h) to determine if the reported concentration exceeded the facility background concentrations. The statistical worksheets and summary table for cobalt are presented in Appendix C. Based on the statistical evaluation, the detection of cobalt was not identified as statistically significant and is representative of historical background concentrations.

5.0 CONCLUSIONS

Based on the results summarized herein, Republic Services of NC, LLC will continue monitoring the uppermost aquifer beneath the East Carolina Regional Landfill in accordance with the requirements for Detection Monitoring Program as outlined in Title 15A NCAC 13B .1633. The relevant water quality standard for cobalt, used for monitoring result comparison, will be based on the background concentration. The next compliance monitoring event for this facility is tentatively scheduled for July 2013.

6.0 REFERENCES

BLE (Bunnell-Lammons Engineering, Inc.), December 2004. *Report of Ground Water Quality Results & Statistical Analysis, Second Semi-Annual Sampling Event of 2004 (N27) East Carolina Regional MSW Landfill, Bertie County, North Carolina.* 5 pp.

BLE (Bunnell-Lammons Engineering, Inc.), 2005. *Water Monitoring Procedures, June 2005 Revision.*

Law Engineering, August 1996. Design Hydrogeologic Report Phase II (Cells 7 and 8). 15 pp.

Golder Associates NC, Inc., August, 2011. Second Semi-Annual 2011 Sampling Event. Prepared for Republic Services of North Carolina, LLC.

North Carolina Dept. Environment, Health, and Natural Resources (NCDEHNR), 1995, N.C. Water Quality Monitoring Guidance Document for Solid Waste Facilities.

North Carolina Geologic Survey, 1985, Geologic Map of North Carolina; North Carolina Department of Natural Resources and Community Development, Geological Survey Section; scale 1:500,000.

Tables

TABLE 1

Summary of Historical Groundwater Elevations for the Yorktown Formation
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Location	Background	Downgradient														
	GW-2	GW-3	GW-5	GW-7	GW-8	GW-9	GW-10	GW-11	GW-13	GW-14	GW-15	GW-16	GW-16R	GW-17	GW-18	GW-21
TOC Elevation	66.36	66.23	62.60	58.79	60.04	51.94	53.22	72.42	74.76	78.74	78.23	63.02	66.12	85.68	62.00	62.07
Jan-95	51.79	54.53	48.45	47.12	46.43	47.89	-	-	-	-	-	-	-	-	-	-
Jul-95	55.85	51.80	50.42	53.84	48.12	48.13	-	-	-	-	-	-	-	-	-	-
Jan-96	58.36	53.73	51.42	49.89	49.09	49.43	-	-	-	-	-	-	-	-	-	-
Oct-96	59.92	55.53	53.05	49.87	49.14	50.32	50.32	-	-	-	-	-	-	-	-	-
Apr-97	57.00	51.96	50.85	47.77	47.50	49.15	49.67	50.20	-	-	-	-	-	-	-	-
Oct-97	50.20	48.05	46.74	44.79	44.41	45.61	45.41	43.67	-	-	-	-	-	-	-	-
Apr-98	55.12	51.65	50.52	47.78	47.26	48.01	47.00	44.22	-	-	-	-	-	-	-	-
Oct-98	51.35	49.25	48.24	46.30	45.58	47.82	45.43	DRY	-	-	-	-	-	-	-	-
07-Apr-99	53.54	51.25	50.01	48.15	47.50	47.45	45.85	DRY	-	-	-	-	-	-	-	-
20-Oct-99	57.26	52.67	51.25	48.79	52.38	49.12	47.80	45.82	-	-	-	-	-	-	-	-
26-Apr-00	54.03	50.93	49.56	48.02	47.52	47.46	45.75	DRY	-	-	-	-	-	-	-	-
18-Oct-00	52.71	49.70	48.56	46.80	46.23	45.57	43.40	DRY	-	-	-	-	-	-	-	-
18-Apr-01	53.54	50.36	48.94	47.37	46.85	46.32	43.93	DRY	48.31	-	-	-	-	-	-	-
24-Oct-01	50.78	47.97	47.00	45.50	44.75	44.84	44.48	43.99	47.95	-	-	-	-	-	-	-
22-Apr-02	51.64	49.10	47.94	46.92	46.38	45.67	46.46	46.07	49.30	-	-	-	-	-	-	-
21-Oct-02	50.06	47.73	46.41	45.70	45.30	46.22	47.07	46.61	48.82	-	-	-	-	-	-	-
01-Apr-03	56.58	51.55	50.37	48.69	48.07	48.30	49.81	48.94	53.08	-	-	-	-	-	-	-
27-Oct-03	54.61	50.14	48.86	46.99	46.42	47.81	48.57	48.63	51.91	53.64	-	-	-	-	-	-
26-Apr-04	55.24	50.59	49.25	47.69	47.10	48.45	48.82	48.74	52.02	54.55	-	-	-	-	-	-
26-Oct-04	53.01	48.53	47.38	45.91	45.49	46.99	48.20	48.27	50.79	52.11	-	-	-	-	-	-
15-Mar-05	54.56	49.40	47.93	46.88	46.57	47.72	48.48	48.42	51.96	54.34	-	-	-	-	-	-
12-Jul-05	53.25	48.88	47.74	46.35	45.86	47.22	47.98	48.34	51.00	52.71	-	-	-	-	-	-
19-Jan-06	55.12	49.82	48.23	46.81	46.60	48.28	48.74	48.40	51.66	53.92	53.10	-	-	-	-	-
11-Jul-06	54.89	49.63	48.44	47.28	46.79	47.78	48.06	48.25	51.46	53.16	52.90	51.00	-	-	-	-
17-Jan-07	56.09	51.21	47.81	48.67	48.00	49.68	48.67	48.28	52.23	54.74	53.59	53.11	-	-	-	-
09-Jul-07	52.58	48.30	47.41	45.21	44.69	46.44	46.82	46.11	50.50	50.84	51.42	49.53	-	-	-	-
14-Jan-08	50.15	46.67	45.64	44.76	44.95	46.45	<32.68	47.54	49.43	49.93	49.75	-	47.23	-	-	
30-Apr-08	-	-	-	-	-	-	-	-	-	-	-	-	-	52.99	-	-
14-Jul-08	51.58	47.34	46.60	46.22	46.11	46.67	<32.68	47.91	50.00	50.19	50.60	-	47.40	49.54	-	-
02-Oct-08	-	-	-	-	-	-	-	-	-	-	-	-	-	48.44	-	-
19-Jan-09	50.24	46.83	45.93	46.51	47.00	47.80	48.69	48.28	49.63	49.29	49.88	-	46.92	48.96	-	-
20-Jul-09	51.00	47.38	46.39	46.22	46.00	46.29	47.49	47.70	49.64	-	50.16	-	48.33	49.60	46.67	48.69
25-Jan-10	53.27	48.91	47.84	49.17	49.39	49.15	50.01	48.70	51.24	-	51.83	-	54.40	56.38	49.24	53.82
06-Jul-10	52.53	48.86	47.87	47.67	47.09	47.01	47.06	47.86	50.61	-	51.38	-	50.97	51.49	49.85	50.68
04-Jan-11	51.80	48.72	47.50	48.04	47.81	48.06	48.58	48.17	50.60	-	51.08	-	53.27	53.50	52.30	50.32
05-Jul-11	51.86	48.14	47.21	46.61	46.00	46.15	46.67	47.47	49.77	-	50.69	-	50.32	51.07	49.50	50.11
09-Jan-12	51.53	48.64	47.41	47.15	46.84	47.47	48.34	47.95	49.68	-	50.49	-	51.53	52.48	50.55	49.75
09-Jul-12	51.12	48.79	47.62	46.79	46.19	46.66	47.24	47.68	48.33	-	49.39	-	50.88	51.47	49.98	50.08
28-Jan-13	49.73	47.62	46.65	47.01	47.00	47.36	48.34	48.00	48.64	-	49.12	-	51.09	51.44	49.88	48.69
MEAN	*53.35*	*49.79*	*48.36*	*47.33*	*46.88*	*47.48*	*47.47*	*47.51*	*50.34*	*52.45*	*51.03*	*51.21*	*50.21*	*51.45*	*49.75*	*50.27*
MAXIMUM	*59.92*	*55.53*	*53.05*	*53.84*	*52.38*	*50.32*	*50.32*	*50.20*	*53.08*	*54.74*	*53.59*	*53.11*	*54.40*	*56.38*	*52.30*	*53.82*
MINIMUM	*49.73*	*46.67*	*45.64*	*44.76*	*44.41*	*44.84*	*43.40*	*43.67*	*47.95*	*49.29*	*49.12*	*49.53*	*46.92*	*48.44*	*46.67*	*48.69*

Notes:
1. ft AMSL = feet above mean sea level
2. TOC = top of casing
3. '- = not measured
4. *MW-16 was decommissioned after the installation of MW-16R.
5. All data prior to 2012 taken from previous report by Golder Associates NC, Inc.

TABLE 2

Summary of Historical Groundwater Elevations for the Black Creek Formation
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Location	Background	Downgradient		
	GW-1	GW-4	GW-6	GW-12
TOC Elevation	65.87	62.53	58.95	66.13
Jan-95	48.13	47.31	47.78	51.62
Jul-95	51.12	49.35	49.95	49.51
Jan-96	51.98	49.68	50.10	49.89
Oct-96	53.44	51.38	51.85	51.70
Apr-97	53.46	51.00	51.60	51.38
Oct-97	47.00	46.10	46.44	46.24
Apr-98	52.44	50.03	50.33	50.29
Oct-98	48.24	48.23	48.00	47.70
07-Apr-99	51.94	49.27	49.64	49.50
20-Oct-99	52.13	49.56	49.45	49.83
26-Apr-00	52.15	49.13	49.60	49.37
18-Oct-00	51.04	48.09	48.49	48.36
18-Apr-01	52.14	48.40	48.81	48.64
24-Oct-01	48.58	46.29	46.73	48.20
22-Apr-02	50.40	47.41	47.85	49.45
21-Oct-02	48.08	45.93	46.37	45.93
01-Apr-03	53.40	49.65	50.18	49.75
27-Oct-03	52.07	48.91	49.32	49.03
26-Apr-04	52.83	49.05	49.66	49.16
26-Oct-04	50.57	47.45	48.00	47.54
15-Mar-05	53.10	48.31	48.96	48.47
12-Jul-05	50.96	47.51	48.29	47.82
19-Jan-06	52.27	48.24	48.85	48.40
11-Jul-06	50.95	47.82	48.30	47.92
17-Jan-07	52.62	48.11	49.95	49.14
09-Jul-07	49.96	46.83	47.34	46.80
14-Jan-08	47.41	45.14	45.64	45.02
14-Jul-08	48.65	45.92	46.46	45.90
19-Jan-09	48.13	45.31	45.92	45.35
20-Jul-09	48.79	45.78	46.27	45.78
25-Jan-10	51.98	47.45	48.15	47.56
06-Jul-10	50.61	47.22	47.77	47.37
04-Jan-11	50.35	46.98	47.53	47.16
05-Jul-11	49.88	46.64	46.47	46.79
09-Jan-12	50.39	47.10	47.71	47.25
09-Jul-12	50.09	47.13	47.64	47.31
28-Jan-13	49.00	45.94	46.54	45.99
MEAN	*50.71*	*47.83*	*48.32*	*48.19*
MAXIMUM	*53.46*	*51.38*	*51.85*	*51.70*
MINIMUM	*47.00*	*45.14*	*45.64*	*45.02*

Notes:
1. ft AMSL = feet above mean sea level.
2. TOC = top of casing
3. All data prior to 2012 taken from previous report by Golder Associates NC. Inc.

TABLE 3

Summary of Estimated Hydraulic Gradients and Average Linear Velocities
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

			Yorktown Formation - January 2013				
Gradient Calculation Segment	**Flow Line Length (feet)**	**Flow Direction**	**Ground-water Elevation (feet)**	**Horizontal Gradient i (ft/ft)**	**Hydraulic Conductivity K (ft/day)**	**Effective Porosity n**	**Linear Velocity V (ft/day)**
i_1	3373	SW	51	0.00178	0.935	0.27	0.00616
			45				
i_2	1605	SW	51	0.00187	0.935	0.27	0.00647
			48				

Notes:
1. Horizontal velocities based on the modified Darcy equation $V_{gw} = Ki/N_e$
2. Values for K and n were taken from BLE's 2004 report reference in the text.

TABLE 4

Summary of Well Construction Information
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Well Identification	Construction Date	Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL)	Well Depth (feet)	Well Diameter (inches)	Screened Interval (ft AMSL)	Screened Geologic Formation
GW-1	1993	63.72	65.87	62	2	11.72 to 1.72	Black Creek Formation
GW-2	1993	64.02	66.36	26	2	48.02 to 38.02	Yorktown Formation
GW-3	1993	63.72	66.23	26	2	47.72 to 37.72	Yorktown Formation
GW-4	1993	60.68	62.53	59	2	11.68 to 1.68	Black Creek Formation
GW-5	1993	60.94	62.60	24	2	46.94 to 36.94	Yorktown Formation
GW-6	1993	57.53	58.95	63	2	4.53 to -5.47	Black Creek Formation
GW-7	1993	57.44	58.79	18	2	49.44 to 39.44	Yorktown Formation
GW-8	1993	58.60	60.04	18	2	50.60 to 40.60	Yorktown Formation
GW-9	1993	50.14	51.94	13	2	47.14 to 37.14	Yorktown Formation
GW-10	1996	50.47	53.22	22	2	40.47 to 30.47	Yorktown Formation
GW-11	1997	68.60	72.42	28	2	49.60 to 39.60	Yorktown Formation
GW-12	1993	63.70	66.13	54	2	19.70 to 9.70	Black Creek Formation
GW-13	2001	72.16	74.76	41.30	2	45.86 to 30.86	Yorktown Formation
GW-15	2005	75.25	78.23	39.22	2	51.03 to 36.03	Yorktown Formation
GW-16R	2007	63.02	66.12	24.24	2	53.78 to 38.78	Yorktown Formation
GW-17	2008	82.92	85.68	41.33	2	51.59 to 41.59	Yorktown Formation
GW-18	2009	59.20	62.07	26.71	2	47.49 to 32.49	Yorktown Formation
GW-21	2006	60.86	62.98	28.00	2	47.86 to 32.86	Yorktown Formation

Note:
1. ft AMSL = feet above mean sea level
2. GW-1, -3, -4, -5, -6, -12, -18, and -21 are used for collection of water level data only.
3. All data prior to 2012 taken from report by Golder Associates NC, Inc

TABLE 5
Summary of Historical Groundwater Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Yorktown Formation										Blanks
				Background	Downgradient									
				GW-2	GW-7	GW-8	GW-9	GW-10	GW-11	GW-13	GW-15	GW-16R	GW-17	
Antimony	µg/L	09-Jan-12	6	ND	ND	ND	ND	ND	ND	0.18 J	ND	ND	ND	ND
GWPS = 1 µg/L	µg/L	09-Jul-12	6	0.70 J	0.24 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	28-Jan-13	6	1.47 J	0.40 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	µg/L	12-Jul-05	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
NC 2L = 10 µg/L	µg/L	19-Jan-06	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	28-Jun-06	10	--	--	--	--	--	--	--	--	--	--	ND
	µg/L	11-Jul-06	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	31-Oct-06	10	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	17-Jan-07	10	2.10 B	ND	2.10 B	ND	ND	2.10 B	ND	ND	--	--	3.40 J
	µg/L	09-Jul-07	10	ND	ND	2.10 J	ND	ND	ND	ND	ND	--	--	ND
	µg/L	14-Jan-08	10	ND	ND	2.10 J	2.70 J	ND	2.30 J	ND	ND	ND	--	ND
	µg/L	30-Apr-08	10	--	--	--	--	--	--	--	--	--	ND	2.20 J
	µg/L	14-Jul-08	10	ND	ND	ND	ND	ND	ND	ND	2.90 J	ND	3.50 J	ND
	µg/L	03-Oct-08	10	--	--	--	--	--	--	--	--	--	ND	ND
	µg/L	19-Jan-09	10	3.80 B	ND	2.80 B	5.20 B	3.70 B	3.90 B	4.40 B	4.50 B	4.10 B	ND	3.60 J
	µg/L	20-Jul-09	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	25-Jan-10	10	ND	4.61 J	3.57 J	5.19 J	ND	ND	4.10 J	4.24 J	ND	ND	ND
	µg/L	06-Jul-10	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	04-Jan-11	10	3.06 J	5.85 J	ND	6.00 J	ND	ND	ND	8.04 J	ND	ND	ND
	µg/L	05-Jul-11	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	09-Jan-12	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	09-Jul-12	10	ND	1.35 J	1.74 J	2.11 J	1.45 J	1.77 J	ND	ND	ND	ND	ND
	µg/L	28-Jan-13	11	ND	ND	ND	3.49 J	ND	ND	ND	ND	ND	ND	ND
Barium	µg/L	28-Oct-98	500	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND
NC 2L = 700 µg/L	µg/L	07-Apr-99	500	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND
	µg/L	08-Dec-99	500	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	µg/L	27-Apr-00	500	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND
	µg/L	18-Oct-00	500	ND	ND	ND	ND	ND	Dry	ND	--	--	--	ND
	µg/L	28-Nov-00	500	--	--	--	--	--	--	ND	--	--	--	--
	µg/L	03-Jan-01	500	--	--	--	--	--	--	ND	--	--	--	--
	µg/L	08-Feb-01	500	--	--	--	--	--	--	ND	--	--	--	--
	µg/L	19-Apr-01	500	ND	ND	ND	--	ND	Dry	ND	--	--	--	ND
	µg/L	24-Dec-01	500	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	23-Apr-02	500	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	23-Oct-02	500	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	01-Apr-03	500	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	02-Sep-03	500	--	--	--	--	--	--	--	--	--	--	--
	µg/L	28-Oct-03	500	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	27-Apr-04	500	500	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	26-Oct-04	500	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	15-Mar-05	500	500	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	12-Jul-05	500	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	12-Jan-06	30	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	19-Jan-06	500	523	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	28-Jun-06	500	--	--	--	--	--	--	--	--	--	--	ND
	µg/L	11-Jul-06	500	517	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	31-Oct-06	500	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	17-Jan-07	100	516	122	137	82.1	95.7	17.8	273	98.3	--	--	0.30 J
	µg/L	09-Jul-07	100	448	162	121	93.5 J	89.3 J	20.8 J	259	114	--	--	0.80 J
	µg/L	14-Jan-08	100	405	129	127	59.0 J	94.6 J	18.5 J	291	117	38.0 J	--	0.30 J
	µg/L	30-Apr-08	100	--	--	--	--	--	--	--	--	--	106	0.50 J
	µg/L	14-Jul-08	100	500	130	123	76.0 J	103	18.7 J	317	94.7 J	32.2 J	127	ND
	µg/L	03-Oct-08	100	--	--	--	--	--	--	--	--	--	116	ND
	µg/L	19-Jan-09	100	534	135	148	62.9 J	88.4 J	20.1 J	357	116	41.2 J	138	ND
	µg/L	20-Jul-09	100	534	96.4 J	145	89.2 J	88.6 J	20.0 J	332	112	39.3 J	168	ND
	µg/L	25-Jan-10	100	545	116	0.681 B	67.6 J	91.3 J	22.0 J	312	117	32.9 J	143	0.434 J
	µg/L	06-Jul-10	100	419	49.1 J	103	89.2 J	73.5 J	18.1 J	245	92.7 J	32.5 J	117	ND
	µg/L	04-Jan-11	100	409	100	120	207	92.8 J	21.8 J	261	105	37.8 J	156	1.11 J
	µg/L	05-Jul-11	100	455	53.8 J	119	167	101	27.5 J	317	115	41.5 J	149	ND
	µg/L	09-Jan-12	100	427	21.8 J	105	212	93.8 J	19.2 J	343	120	38.8 J	156	0.24 J
	µg/L	09-Jul-12	100	414	45.1 J	108	196	114	21.1 J	369	124	46.9 J	135	0.75 J
	µg/L	28-Jan-13	100	387	72.0 J	91.9 J	257	107	19.2 J	331	125	46.3 J	140	ND
Beryllium	µg/L	28-Oct-98	2	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND
GWPS = 4 µg/L	µg/L	07-Apr-99	2	ND	2.0	ND	ND	ND	Dry	--	--	--	--	ND
	µg/L	08-Dec-99	2	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	µg/L	27-Apr-00	2	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND
	µg/L	18-Oct-00	2	ND	ND	ND	ND	ND	Dry	ND	--	--	--	ND
	µg/L	28-Nov-00	2	--	--	--	--	--	--	ND	--	--	--	--
	µg/L	03-Jan-01	2	--	--	--	--	--	--	ND	--	--	--	--
	µg/L	08-Feb-01	2	--	--	--	--	--	--	4.0	--	--	--	--
	µg/L	19-Apr-01	2	ND	ND	ND	--	ND	Dry	ND	--	--	--	ND
	µg/L	24-Dec-01	2	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	23-Apr-02	2	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	23-Oct-02	2	ND	3.0	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	01-Apr-03	2	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	02-Sep-03	2	--	--	--	--	--	--	--	--	--	--	--
	µg/L	28-Oct-03	2	ND	3.0	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	27-Apr-04	2	ND	3.0	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	26-Oct-04	2	ND	3.0	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	15-Mar-05	2	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	12-Jul-05	2	ND	2.2	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	12-Jan-06	2	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	19-Jan-06	2	ND	2.0	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	28-Jun-06	2	--	--	--	--	--	--	--	--	--	--	ND
	µg/L	11-Jul-06	2	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	31-Oct-06	2	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	17-Jan-07	1	1.00	1.90	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	09-Jul-07	1	0.70 J	1.90	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	14-Jan-08	1	ND	1.50	ND	ND	ND	ND	ND	ND	ND	--	ND
	µg/L	30-Apr-08	1	--	--	--	--	--	--	--	--	--	ND	ND
	µg/L	14-Jul-08	1	0.80 J	1.60	ND	ND	ND	ND	0.10 J	ND	ND	0.10 J	ND
	µg/L	03-Oct-08	1	--	--	--	--	--	--	--	--	--	0.20 J	ND
	µg/L	19-Jan-09	1	0.90 J	1.30	ND	ND	ND	ND	0.30 J	ND	ND	0.10 J	ND
	µg/L	20-Jul-09	1	1.26	2.11	0.802 J	0.485 J	0.252 B	0.390 J	0.600 J	0.311 B	0.121 B	0.593 J	0.0779 J
	µg/L	25-Jan-10	1	1.34	2.11	1.52	0.460 J	0.256 J	0.453 J	0.614 J	0.352 J	0.150 J	0.349 J	ND
	µg/L	06-Jul-10	1	0.873 J	1.98	0.465 J	0.448 J	0.164 J	0.249 J	0.373 J	0.232 J	ND	0.212 J	ND
	µg/L	04-Jan-11	1	1.08	2.38	0.799 J	0.574 J	0.296 J	0.427 J	0.506 J	0.284 J	0.152 J	0.420 J	ND
	µg/L	05-Jul-11	1	0.979 J	2.01	0.699 J	0.945 J	0.312 J	0.401 J	0.555 J	0.301 J	ND	0.377 J	ND
	µg/L	09-Jan-12	1	0.99 J	0.80 J	0.60 J	0.49 J	0.16 J	0.29 J	0.58 J	0.44 J	0.07 J	0.50 J	ND
	µg/L	09-Jul-12	1	1.03	1.94	0.62 J	1.11	0.52 J	0.28 J	0.61 J	0.27 J	0.10 J	0.31 J	ND
	µg/L	28-Jan-13	1	0.85 J	2.01	0.46 J	1.38	0.22 J	0.23 J	0.52 J	0.27 J	ND	0.35 J	ND

TABLE 5
Summary of Historical Groundwater Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Yorktown Formation										Blanks
				Background	Downgradient									
				GW-2	GW-7	GW-8	GW-9	GW-10	GW-11	GW-13	GW-15	GW-16R	GW-17	
Cadmium	µg/L	28-Oct-98	1	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND
NC 2L = 2 µg/L	µg/L	07-Apr-99	1	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND
	µg/L	08-Dec-99	1	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	µg/L	27-Apr-00	1	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND
	µg/L	18-Oct-00	1	ND	ND	ND	ND	ND	Dry	ND	--	--	--	ND
	µg/L	28-Nov-00	1	--	--	--	--	--	--	ND	--	--	--	--
	µg/L	03-Jan-01	1	--	--	--	--	--	--	5.0	--	--	--	--
	µg/L	08-Feb-01	1	--	--	--	--	--	--	ND	--	--	--	--
	µg/L	19-Apr-01	1	ND	ND	ND	--	ND	Dry	ND	--	--	--	ND
	µg/L	24-Dec-01	1	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	23-Apr-02	1	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	23-Oct-02	1	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	01-Apr-03	1	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	02-Sep-03	1	--	--	--	--	--	--	--	--	--	--	--
	µg/L	28-Oct-03	1	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	27-Apr-04	1	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	26-Oct-04	1	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	15-Mar-05	1	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	12-Jul-05	1	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	12-Jan-06	1	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	19-Jan-06	1	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	28-Jun-06	1	--	--	--	--	--	--	--	--	--	--	ND
	µg/L	11-Jul-06	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	31-Oct-06	1	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	17-Jan-07	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	09-Jul-07	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	14-Jan-08	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	µg/L	30-Apr-08	1	--	--	--	--	--	--	--	--	--	ND	ND
	µg/L	14-Jul-08	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	03-Oct-08	1	--	--	--	--	--	--	--	--	--	ND	ND
	µg/L	19-Jan-09	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	20-Jul-09	1	0.144 B	0.261 B	0.106 B	ND	0.159 B	0.0999 B	ND	ND	0.179 B	0.0940 B	0.112 J
	µg/L	25-Jan-10	1	0.388 B	0.351 B	1.59	0.876 B	0.357 B	0.257 B	0.332 B	0.391 B	0.359 B	0.429 B	0.277 J
	µg/L	06-Jul-10	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	04-Jan-11	1	0.434 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	05-Jul-11	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	09-Jan-12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	09-Jul-12	1	0.07 J	ND	ND	ND	ND	ND	ND	0.06 J	0.28 J	ND	ND
	µg/L	28-Jan-13	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	µg/L	28-Oct-98	10	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND
NC 2L = 10 µg/L	µg/L	07-Apr-99	10	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND
	µg/L	08-Dec-99	10	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	µg/L	27-Apr-00	10	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND
	µg/L	18-Oct-00	10	ND	ND	ND	ND	ND	Dry	ND	--	--	--	ND
	µg/L	28-Nov-00	10	--	--	--	--	--	--	ND	--	--	--	--
	µg/L	03-Jan-01	10	--	--	--	--	--	--	ND	--	--	--	--
	µg/L	08-Feb-01	10	--	--	--	--	--	--	ND	--	--	--	--
	µg/L	19-Apr-01	10	ND	ND	ND	--	ND	Dry	ND	--	--	--	ND
	µg/L	24-Dec-01	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	23-Apr-02	10	ND	ND	10.0	ND	ND	ND	ND	--	--	--	ND
	µg/L	23-Oct-02	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	01-Apr-03	10	ND	ND	10.0	ND	ND	ND	ND	--	--	--	ND
	µg/L	02-Sep-03	10	--	--	--	--	--	--	--	--	--	--	--
	µg/L	28-Oct-03	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	27-Apr-04	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	26-Oct-04	10	ND	ND	10	ND	ND	ND	ND	--	--	--	ND
	µg/L	15-Mar-05	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	12-Jul-05	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	12-Jan-06	10	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	19-Jan-06	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	28-Jun-06	10	--	--	--	--	--	--	--	--	--	--	ND
	µg/L	11-Jul-06	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	31-Oct-06	10	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	17-Jan-07	10	ND	ND	ND	ND	ND	4.3 J	ND	ND	--	--	ND
	µg/L	09-Jul-07	10	ND	ND	ND	ND	ND	2.5 J	ND	ND	--	--	ND
	µg/L	14-Jan-08	10	2.6 J	ND	ND	ND	ND	5.9 J	3.8 J	ND	ND	--	ND
	µg/L	30-Apr-08	10	--	--	--	--	--	--	--	--	--	8.8 J	ND
	µg/L	14-Jul-08	10	ND	ND	ND	ND	ND	2.8 J	ND	ND	1.4 J	2.0 J	ND
	µg/L	03-Oct-08	10	--	--	--	--	--	--	--	--	--	1.6 J	ND
	µg/L	19-Jan-09	10	3.7 J	ND	ND	1.2 J	ND	4.6 J	ND	ND	3.0 J	1.6 J	ND
	µg/L	20-Jul-09	10	0.941 J	0.782 J	0.801 J	ND	ND	4.17 J	ND	1.56 J	0.998 J	7.39 J	ND
	µg/L	25-Jan-10	10	ND	ND	ND	ND	ND	5.97 J	ND	ND	ND	ND	ND
	µg/L	06-Jul-10	10	10.4	2.17 J	1.15 J	ND	ND	3.08 J	ND	ND	ND	1.58 J	ND
	µg/L	04-Jan-11	10	1.46 J	4.26 J	1.42 J	4.41 J	ND	4.82 J	ND	1.23 J	ND	5.21 J	ND
	µg/L	05-Jul-11	10	1.44 J	1.40 J	ND	3.65 J	1.90 J	9.73 J	ND	1.67 J	ND	2.96 J	ND
	µg/L	09-Jan-12	10	ND	ND	0.60 J	ND	ND	4.20 J	ND	2.62 J	ND	4.00 J	ND
	µg/L	09-Jul-12	10	1.88 J	2.28 J	ND	ND	ND	3.82 J	ND	ND	ND	ND	ND
	µg/L	28-Jan-13	10	2.40 B	2.06 B	1.82 B	3.18 B	1.27 B	5.98 B	0.75 B	2.24 B	0.78 B	3.08 B	1.38 J

TABLE 5
Summary of Historical Groundwater Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Yorktown Formation										Blanks
				Background	Downgradient									
				GW-2	GW-7	GW-8	GW-9	GW-10	GW-11	GW-13	GW-15	GW-16R	GW-17	
Cobalt	µg/L	28-Oct-98	10	ND	30.0	ND	ND	ND	Dry	--	--	--	--	ND
GWPS = 1 µg/L	µg/L	07-Apr-99	10	ND	20.0	ND	ND	ND	Dry	--	--	--	--	ND
	µg/L	08-Dec-99	10	10.0	20.0	ND	ND	ND	ND	--	--	--	--	ND
	µg/L	27-Apr-00	10	ND	30.0	ND	ND	ND	Dry	--	--	--	--	ND
	µg/L	18-Oct-00	10	ND	30.0	ND	ND	ND	Dry	30.0	--	--	--	ND
	µg/L	28-Nov-00	10	--	--	--	--	--	--	10.0	--	--	--	--
	µg/L	03-Jan-01	10	--	--	--	--	--	--	ND	--	--	--	--
	µg/L	08-Feb-01	10	--	--	--	--	--	--	ND	--	--	--	--
	µg/L	19-Apr-01	10	ND	30.0	ND	--	ND	Dry	ND	--	--	--	ND
	µg/L	24-Dec-01	10	ND	30.0	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	23-Apr-02	10	ND	30.0	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	23-Oct-02	10	ND	50.0	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	01-Apr-03	10	10.0	40.0	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	02-Sep-03	10	--	--	--	--	--	--	--	--	--	--	--
	µg/L	28-Oct-03	10	ND	50.0	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	27-Apr-04	10	ND	30.0	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	26-Oct-04	10	ND	40.0	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	15-Mar-05	10	10.0	36.0	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	12-Jul-05	10	ND	40.0	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	12-Jan-06	10	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	19-Jan-06	10	11.9	30.0	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	28-Jun-06	10	--	--	--	--	--	--	--	--	--	--	ND
	µg/L	11-Jul-06	10	12.5	31.6	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	31-Oct-06	10	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	17-Jan-07	10	10.3	34.9	3.9 J	ND	ND	ND	3.0 J	2.9 J	--	--	ND
	µg/L	09-Jul-07	10	10.0	37.5	2.9 J	ND	ND	ND	ND	2.6 J	--	--	ND
	µg/L	14-Jan-08	10	11.3	35.1	4.2 J	3.2 J	3.8 J	2.0 J	3.3 J	3.4 J	2.6 J	--	ND
	µg/L	30-Apr-08	10	--	--	--	--	--	--	--	--	--	20.5	ND
	µg/L	14-Jul-08	10	10.1	37.3	2.6 J	ND	ND	ND	2.7 J	2.1 J	1.2 J	4.5 J	ND
	µg/L	03-Oct-08	10	--	--	--	--	--	--	--	--	--	6.3 J	ND
	µg/L	19-Jan-09	10	12.0	23.7	3.7 J	3.0 J	4.6 J	ND	1.8 J	1.7 J	1.8 J	5.2 J	ND
	µg/L	20-Jul-09	10	11.4	35.4	3.93 J	1.47 J	2.91 J	0.586 J	2.00 J	2.67 J	0.772 J	3.93 J	ND
	µg/L	25-Jan-10	10	12.6	21.5	1.97 B	2.46 J	0.858 B	1.58 B	2.71 J	3.62 J	1.57 B	3.02 B	0.485 J
	µg/L	06-Jul-10	10	8.59 J	26.6	2.62 J	1.15 J	ND	ND	1.66 J	2.07 J	1.89 J	2.14 J	ND
	µg/L	04-Jan-11	10	9.65 J	29.8	3.63 J	3.19 J	ND	1.19 J	2.24 J	2.60 J	1.77 J	5.07 J	ND
	µg/L	05-Jul-11	10	10.4	39.0	3.19 J	2.17 J	2.03 J	1.40 J	2.34 J	2.80 J	2.18 J	3.65 J	ND
	µg/L	09-Jan-12	10	9.51 J	13.8	2.92 J	2.44 J	1.63 J	0.73 J	2.73 J	3.29 J	1.84 J	3.93 J	ND
	µg/L	09-Jul-12	10	9.76 J	26.1	3.39 J	2.19 J	2.52 J	0.78 J	3.44 J	2.94 J	3.29 J	3.13 J	ND
	µg/L	28-Jan-13	10	9.53 J	33.3	2.98 J	2.84 J	3.22 J	0.82 J	3.28 J	3.13 J	1.83 J	3.49 J	ND
Copper	µg/L	12-Jul-05	200	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
NC 2L = 1000 µg/L	µg/L	19-Jan-06	200	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	28-Jun-06	200	--	--	--	--	--	--	--	--	--	--	ND
	µg/L	11-Jul-06	200	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	31-Oct-06	200	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	17-Jan-07	10	ND	0.80 J	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	09-Jul-07	10	ND	5.40 J	ND	ND	1.00 J	ND	ND	ND	--	--	ND
	µg/L	14-Jan-08	10	4.70 J	1.60 B	1.30 B	1.30 B	ND	1.00 B	0.80 B	0.80 B	1.10 B	--	0.70 J
	µg/L	30-Apr-08	10	--	--	--	--	--	--	--	--	--	2.60 B	1.40 J
	µg/L	14-Jul-08	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	03-Oct-08	10	--	--	--	--	--	--	--	--	--	ND	ND
	µg/L	19-Jan-09	10	ND	ND	1.70 J	ND	ND	ND	ND	ND	2.00 J	ND	ND
	µg/L	20-Jul-09	10	ND	ND	0.868 B	ND	ND	ND	ND	ND	ND	2.19 B	1.25 J
	µg/L	25-Jan-10	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	06-Jul-10	10	ND	ND	ND	2.56 J	ND	ND	ND	ND	ND	ND	ND
	µg/L	04-Jan-11	10	2.30 J	2.16 J	ND	3.09 J	1.80 J	4.68 J	ND	ND	ND	3.49 J	ND
	µg/L	05-Jul-11	10	8.78 J	1.60 J	ND	2.66 J	ND	ND	ND	ND	ND	ND	ND
	µg/L	09-Jan-12	10	1.57 B	1.54 B	1.06 B	0.62 B	0.62 B	0.68 B	0.59 B	1.87 B	0.32 B	2.32 B	0.66 J
	µg/L	09-Jul-12	10	1.24 J	0.88 J	0.31 J	ND	0.64 J	0.24 J	ND	ND	0.65 J	0.45 J	ND
	µg/L	28-Jan-13	10	1.12 B	1.13 B	1.23 B	1.39 B	1.45 B	1.15 B	0.84 B	1.19 B	0.46 B	1.74 B	0.26 J
Lead	µg/L	28-Oct-98	10	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND
NC 2L = 15 µg/L	µg/L	07-Apr-99	10	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND
	µg/L	08-Dec-99	10	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	µg/L	27-Apr-00	10	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND
	µg/L	18-Oct-00	10	ND	ND	ND	ND	ND	Dry	ND	--	--	--	ND
	µg/L	28-Nov-00	10	--	--	--	--	--	--	ND	--	--	--	--
	µg/L	03-Jan-01	10	--	--	--	--	--	--	ND	--	--	--	--
	µg/L	08-Feb-01	10	--	--	--	--	--	--	ND	--	--	--	--
	µg/L	19-Apr-01	10	ND	ND	ND	--	ND	Dry	ND	--	--	--	ND
	µg/L	24-Dec-01	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	23-Apr-02	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	23-Oct-02	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	01-Apr-03	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	02-Sep-03	10	--	--	--	--	--	--	--	--	--	--	--
	µg/L	28-Oct-03	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	27-Apr-04	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	26-Oct-04	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	15-Mar-05	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	12-Jul-05	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	12-Jan-06	10	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	19-Jan-06	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	28-Jun-06	10	--	--	--	--	--	--	--	--	--	--	ND
	µg/L	11-Jul-06	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	31-Oct-06	10	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	17-Jan-07	10	ND	2.3 J	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	09-Jul-07	10	2.3 J	2.9 J	2.9 J	ND	ND	2.0 J	ND	2.2 J	--	--	ND
	µg/L	14-Jan-08	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	µg/L	30-Apr-08	10	--	--	--	--	--	--	--	--	--	4.3 J	ND
	µg/L	14-Jul-08	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1 J	ND
	µg/L	03-Oct-08	10	--	--	--	--	--	--	--	--	--	2.2 J	ND
	µg/L	19-Jan-09	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	20-Jul-09	10	2.82 B	2.21 B	ND	1.71 B	2.73 B	ND	ND	ND	2.68 B	6.81 B	2.16 J
	µg/L	25-Jan-10	10	ND	1.70 J	7.56 J	1.55 J	ND	ND	ND	ND	ND	2.06 J	ND
	µg/L	06-Jul-10	10	ND	2.40 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	04-Jan-11	10	ND	3.03 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	05-Jul-11	10	ND	3.52 J	ND	2.16 J	ND	ND	ND	ND	ND	ND	ND
	µg/L	09-Jan-12	10	0.77 B	1.21 B	0.47 B	0.75 B	0.45 B	0.20 B	2.43 B	2.33 B	0.43 B	3.19 B	0.94 J
	µg/L	09-Jul-12	10	0.84 J	2.69 J	0.22 J	0.29 J	0.37 J	ND	0.21 J	0.11 J	0.21 J	1.34 J	ND
	µg/L	28-Jan-13	10	0.25 J	1.14 J	0.22 J	1.77 J	0.52 J	ND	0.24 J	0.11 J	0.36 J	2.73 J	ND

TABLE 5
Summary of Historical Groundwater Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Yorktown Formation										Blanks
				Background	Downgradient									
				GW-2	GW-7	GW-8	GW-9	GW-10	GW-11	GW-13	GW-15	GW-16R	GW-17	
Nickel	µg/L	28-Oct-98	50	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND
NC 2L = 100 µg/L	µg/L	07-Apr-99	50	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND
	µg/L	08-Dec-99	50	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	µg/L	27-Apr-00	50	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND
	µg/L	18-Oct-00	50	ND	ND	ND	ND	ND	Dry	ND	--	--	--	ND
	µg/L	28-Nov-00	50	--	--	--	--	--	--	ND	--	--	--	--
	µg/L	03-Jan-01	50	--	--	--	--	--	--	ND	--	--	--	--
	µg/L	08-Feb-01	50	--	--	--	--	--	--	ND	--	--	--	--
	µg/L	19-Apr-01	50	ND	ND	ND	--	ND	Dry	ND	--	--	--	ND
	µg/L	24-Dec-01	50	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	23-Apr-02	50	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	23-Oct-02	50	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	01-Apr-03	50	ND	ND	20	ND	ND	ND	ND	--	--	--	ND
	µg/L	02-Sep-03	50	--	--	--	--	--	--	--	--	--	--	--
	µg/L	28-Oct-03	50	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	27-Apr-04	50	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	26-Oct-04	50	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	15-Mar-05	50	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	12-Jul-05	50	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	12-Jan-06	50	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	19-Jan-06	50	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	28-Jun-06	50	--	--	--	--	--	--	--	--	--	--	ND
	µg/L	11-Jul-06	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	31-Oct-06	50	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	17-Jan-07	50	7.4 J	10.4	3.7 J	4.1 J	ND	ND	3.0 J	3.6 J	--	--	ND
	µg/L	09-Jul-07	50	6.0 J	9.1 J	3.8 J	2.0 J	ND	ND	2.3 J	2.5 J	--	--	ND
	µg/L	14-Jan-08	50	11.0 J	8.0 J	5.8 J	3.7 J	2.0 J	3.2 J	4.7 J	3.8 J	ND	--	ND
	µg/L	30-Apr-08	50	--	--	--	--	--	--	--	--	--	4.1 J	ND
	µg/L	14-Jul-08	50	3.9 J	7.1 J	2.4 J	2.0 J	ND	ND	2.5 J	ND	ND	ND	ND
	µg/L	03-Oct-08	50	--	--	--	--	--	--	--	--	--	2.4 J	ND
	µg/L	19-Jan-09	50	7.8 B	7.1 B	3.4 B	4.1 B	3.1 B	2.4 B	4.4 B	5.2 B	ND	ND	2.2 J
	µg/L	20-Jul-09	50	6.08 J	9.00 J	3.27 J	3.03 J	1.07 J	0.716 J	2.48 J	2.59 J	ND	2.56 J	ND
	µg/L	25-Jan-10	50	4.55 J	6.31 J	ND	ND	ND	ND	ND	1.75 J	ND	ND	ND
	µg/L	06-Jul-10	50	5.31 J	10.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	04-Jan-11	50	6.42 J	9.32 J	2.17 J	4.60 J	ND	ND	2.50 J	2.92 J	ND	2.54 J	ND
	µg/L	05-Jul-11	50	6.82 J	10.6 J	2.64 J	6.35 J	ND	ND	2.94 J	3.22 J	ND	ND	ND
	µg/L	09-Jan-12	50	6.14 J	6.14 J	3.28 J	6.42 J	1.37 J	1.14 J	3.10 J	3.66 J	0.67 J	1.76 J	ND
	µg/L	09-Jul-12	50	7.09 J	10.80 J	2.78 J	6.67 J	1.68 J	1.45 J	3.75 J	3.52 J	0.70 J	1.16 J	ND
	µg/L	28-Jan-13	50	7.35 J	9.57 J	2.60 J	8.82 J	5.06 J	2.37 J	3.48 J	3.57 J	0.74 J	1.70 J	ND
Selenium	µg/L	12-Jul-05	20	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
NC 2L = 20 µg/L	µg/L	19-Jan-06	20	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	28-Jun-06	20	--	--	--	--	--	--	--	--	--	--	ND
	µg/L	11-Jul-06	20	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	31-Oct-06	20	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	17-Jan-07	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	09-Jul-07	10	ND	ND	ND	ND	2.0 J	ND	ND	ND	--	--	ND
	µg/L	14-Jan-08	10	2.3 J	ND	2.0 J	ND	ND	ND	ND	2.3 J	ND	--	ND
	µg/L	30-Apr-08	10	--	--	--	--	--	--	--	--	--	ND	ND
	µg/L	14-Jul-08	10	ND	3.3 J	ND	ND	ND	ND	2.9 J	ND	2.7 J	ND	ND
	µg/L	03-Oct-08	10	--	--	--	--	--	--	--	--	--	ND	ND
	µg/L	19-Jan-09	10	5.6 J	ND	4.4 J	2.9 J	ND	ND	ND	ND	ND	ND	ND
	µg/L	20-Jul-09	10	ND	4.33 B	3.90 B	ND	5.08 B	ND	ND	ND	ND	4.21 B	3.58 J
	µg/L	25-Jan-10	10	ND	1.62 J	1.08 J	1.86 J	1.32 J	ND	ND	0.918 J	0.878 J	0.855 J	ND
	µg/L	06-Jul-10	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	04-Jan-11	10	ND	ND	ND	1.89 J	ND	ND	ND	ND	ND	ND	ND
	µg/L	05-Jul-11	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	09-Jan-12	10	ND	ND	ND	0.80 J	ND	ND	ND	ND	ND	ND	ND
	µg/L	09-Jul-12	10	ND	1.43	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	28-Jan-13	11	ND	1.10 J	ND	1.49 J	ND	ND	ND	ND	ND	ND	ND
Silver	µg/L	12-Jul-05	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
NC 2L = 20 µg/L	µg/L	19-Jan-06	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	28-Jun-06	10	--	--	--	--	--	--	--	--	--	--	ND
	µg/L	11-Jul-06	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	31-Oct-06	10	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	17-Jan-07	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	09-Jul-07	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	14-Jan-08	10	2.10 J	ND	ND	3.1 J	ND	ND	ND	2.1 J	ND	--	ND
	µg/L	30-Apr-08	10	--	--	--	--	--	--	--	--	--	ND	ND
	µg/L	14-Jul-08	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	03-Oct-08	10	--	--	--	--	--	--	--	--	--	ND	ND
	µg/L	19-Jan-09	10	ND	ND	ND	ND	ND	ND	ND	ND	3.6 J	ND	ND
	µg/L	20-Jul-09	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.05 J	ND
	µg/L	25-Jan-10	10	1.59 B	1.20 B	6.82 J	1.68 B	1.76 B	1.55 B	1.79 B	1.74 B	2.07 B	2.55 B	1.25 J
	µg/L	06-Jul-10	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	04-Jan-11	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	05-Jul-11	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	09-Jan-12	10	ND	1.58 J	ND	ND	ND	ND	0.43 J	0.27 J	ND	0.83 J	ND
	µg/L	09-Jul-12	10	ND	0.25 J	ND	0.50 J	0.43 J	0.68 J	1.00 J	0.83 J	ND	1.25 J	ND
	µg/L	28-Jan-13	11	ND	0.34 J	ND	0.90 J	1.17 J	0.86 J	1.09 J	0.17 J	ND	2.13 J	ND
Thallium	µg/L	12-Jul-05	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
GWPS = 0.2 µg/L	µg/L	19-Jan-06	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	28-Jun-06	10	--	--	--	--	--	--	--	--	--	--	ND
	µg/L	11-Jul-06	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	31-Oct-06	10	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	17-Jan-07	5.5	0.070 J	0.049 J	ND	ND	ND	ND	0.045 J	ND	--	--	ND
	µg/L	09-Jul-07	5.5	0.065 J	0.050 J	0.058 J	0.054 J	ND	ND	0.060 J	ND	--	--	ND
	µg/L	14-Jan-08	5.5	0.077 J	0.069 J	ND	ND	ND	ND	0.063 J	ND	ND	--	ND
	µg/L	30-Apr-08	5.5	--	--	--	--	--	--	--	--	--	0.136 J	ND
	µg/L	14-Jul-08	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	03-Oct-08	5.5	--	--	--	--	--	--	--	--	--	0.158 J	ND
	µg/L	19-Jan-09	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	20-Jul-09	5.5	0.0400 J	0.0520 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	25-Jan-10	5.5	0.117 J	0.146 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	06-Jul-10	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	04-Jan-11	5.5	ND	0.122 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	05-Jul-11	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	09-Jan-12	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	09-Jul-12	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	28-Jan-13	6.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	µg/L	12-Jul-05	40	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
GWPS = 0.3 µg/L	µg/L	19-Jan-06	40	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	28-Jun-06	40	--	--	--	--	--	--	--	--	--	--	ND
	µg/L	11-Jul-06	40	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	31-Oct-06	40	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	17-Jan-07	25	ND	ND	ND	ND	ND	ND	1.00 J	1.10 J	--	--	ND
	µg/L	09-Jul-07	25	ND	ND	ND	1.50 B	ND	ND	ND	ND	--	--	1.00 J
	µg/L	14-Jan-08	25	1.60 B	ND	1.10 B	2.70 B	ND	2.00 B	ND	1.00 B	ND	--	1.00 J
	µg/L	30-Apr-08	25	--	--	--	--	--	--	--	--	--	13.70 J	1.30 J
	µg/L	14-Jul-08	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0 J	ND
	µg/L	03-Oct-08	25	--	--	--	--	--	--	--	--	--	ND	ND
	µg/L	19-Jan-09	25	ND	ND	ND	ND	ND	ND	ND	ND	1.4 J	ND	ND
	µg/L	20-Jul-09	25	1.55 B	0.778 B	ND	1.63 B	ND	ND	0.746 B	0.856 B	0.886 B	10.4 J	0.803 J
	µg/L	25-Jan-10	25	ND	ND	3.64 J	ND	ND	1.83 J	ND	ND	ND	0.508 J	ND
	µg/L	06-Jul-10	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	04-Jan-11	25	ND	6.03 J	ND	10.5 J	ND	ND	ND	ND	ND	8.25 J	ND
	µg/L	05-Jul-11	25	ND	1.84 J	ND	7.12 J	1.42 J	2.51 J	ND	ND	ND	3.39 J	ND
	µg/L	09-Jan-12	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.37 J	ND
	µg/L	09-Jul-12	25	2.41 J	1.85 J	ND	ND	ND	ND	ND	ND	ND	1.71 J	ND
	µg/L	28-Jan-13	25	2.24 B	ND	ND	15.3 B	ND	ND	ND	ND	ND	6.45 B	2.68 J

TABLE 5
Summary of Historical Groundwater Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Yorktown Formation										Blanks
				Background	Downgradient									
				GW-2	GW-7	GW-8	GW-9	GW-10	GW-11	GW-13	GW-15	GW-16R	GW-17	
Zinc	µg/L	28-Oct-98	50	ND	ND	ND	ND	ND	Dry	--	--	--	--	ND
NC 2L = 1000 µg/L	µg/L	07-Apr-99	50	50.0	40.0	30.0	ND	ND	Dry	--	--	--	--	30.0
	µg/L	08-Dec-99	50	ND	40.0	80.0	ND	60.0	30.0	--	--	--	--	ND
	µg/L	27-Apr-00	50	90.0	70.0	ND	150.0	ND	Dry	--	--	--	--	ND
	µg/L	18-Oct-00	50	ND	ND	ND	ND	ND	Dry	ND	--	--	--	ND
	µg/L	28-Nov-00	50	--	--	--	--	--	--	60.0	--	--	--	--
	µg/L	03-Jan-01	50	--	--	--	--	--	--	ND	--	--	--	--
	µg/L	08-Feb-01	50	--	--	--	--	--	--	ND	--	--	--	--
	µg/L	19-Apr-01	50	ND	ND	ND	--	ND	Dry	ND	--	--	--	ND
	µg/L	24-Dec-01	50	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	23-Apr-02	50	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	23-Oct-02	50	ND	ND	ND	90.0	ND	ND	ND	--	--	--	ND
	µg/L	01-Apr-03	50	110.0	120.0	50.0	90.0	50.0	70.0	40.0	--	--	--	30.0
	µg/L	02-Sep-03	50	--	--	--	--	--	--	--	--	--	--	--
	µg/L	28-Oct-03	50	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	27-Apr-04	50	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	26-Oct-04	50	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	15-Mar-05	50	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	12-Jul-05	50	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	12-Jan-06	50	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	19-Jan-06	50	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	28-Jun-06	50	--	--	--	--	--	--	--	--	--	--	ND
	µg/L	11-Jul-06	50	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	31-Oct-06	50	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	17-Jan-07	10	18.8 B	23.3 B	12.2 B	12.7 B	5.9 B	10.4 B	15.6 B	7.7 B	--	--	5.5 J
	µg/L	09-Jul-07	10	8.3 J	21.5	3.9 J	4.8 J	4.4 J	ND	3.9 J	5.2 J	--	--	ND
	µg/L	14-Jan-08	10	13.3	5.7 B	4.1 B	6.0 B	2.9 B	5.2 B	4.8 B	3.7 B	13.6	--	1.3 J
	µg/L	30-Apr-08	10	--	--	--	--	--	--	--	--	--	18.8	ND
	µg/L	14-Jul-08	10	10.2 B	7.4 B	4.9 B	6.1 B	ND	ND	4.4 B	5.9 B	ND	6.7 B	5.0 J
	µg/L	03-Oct-08	10	--	--	--	--	--	--	--	--	--	8.7 J	ND
	µg/L	19-Jan-09	10	10.9	4.1 J	4.1 J	10.6	ND	ND	4.3 J	ND	ND	ND	ND
	µg/L	20-Jul-09	10	10.3	28.0	9.27 J	12.2	ND	ND	7.25 J	5.40 J	8.07 J	17.6	ND
	µg/L	25-Jan-10	10	13.0	6.56 J	ND	15.3	6.86 J	2.89 J	6.92 J	4.45 J	6.07 J	4.26 J	ND
	µg/L	06-Jul-10	10	12.0	5.01 J	ND	9.64 J	ND	4.54 J	5.00 J	ND	6.07 J	ND	ND
	µg/L	04-Jan-11	10	9.70 J	7.51 J	ND	14.0	ND	ND	ND	ND	ND	8.51 J	ND
	µg/L	05-Jul-11	10	20.6	8.55 J	6.18 J	19.6	4.28 J	7.45 J	7.77 J	5.46 J	ND	6.28 J	ND
	µg/L	09-Jan-12	10	12.4 B	3.07 B	3.85 B	13.8 B	2.31 B	3.53 B	7.41 B	73.8 B	3.38 B	7.26 B	15.9
	µg/L	09-Jul-12	10	10.4 J	4.69 J	2.52 B	14.1	3.42 J	2.21 B	5.46 J	5.74 J	6.37 J	3.83 J	0.30 J
	µg/L	28-Jan-13	10	8.93 J	4.76 B	2.66 B	9.37 J	3.84 B	1.55 B	5.26 B	3.96 B	2.93 B	5.01 B	0.57 J
Benzene	µg/L	28-Jan-13	1	0.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NC 2L= 1 µg/L														
Chloroform	µg/L	12-Jul-05	5	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
NC 2L = 70 µg/L	µg/L	19-Jan-06	5	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	28-Jun-06	5	--	--	--	--	--	--	--	--	--	--	ND
	µg/L	11-Jul-06	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	31-Oct-06	5	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	17-Jan-07	5	ND	ND	ND	ND	ND	0.63 J	ND	ND	--	--	ND
	µg/L	09-Jul-07	5	ND	ND	ND	ND	ND	0.37 J	ND	ND	--	--	ND
	µg/L	14-Jan-08	5	ND	ND	ND	ND	ND	0.62 J	ND	ND	0.54 J	--	ND
	µg/L	30-Apr-08	5	--	--	--	--	--	--	--	--	--	1.0 J	ND
	µg/L	14-Jul-08	5	ND	ND	ND	ND	ND	0.66 J	ND	ND	1.1 J	2.0 J	ND
	µg/L	03-Oct-08	5	--	--	--	--	--	--	--	--	--	2.7 J	ND
	µg/L	19-Jan-09	5	ND	ND	ND	ND	ND	0.58 J	ND	ND	0.52 J	2.6 J	ND
	µg/L	20-Jul-09	5	ND	ND	ND	ND	ND	0.52 J	ND	ND	0.65 J	1.5 J	ND
	µg/L	25-Jan-10	5	ND	ND	ND	ND	ND	0.68 J	ND	ND	1.1 J	3.2 J	ND
	µg/L	06-Jul-10	5	ND	ND	ND	ND	ND	0.55 J	ND	ND	ND	1.3 J	ND
	µg/L	04-Jan-11	5	ND	ND	ND	ND	ND	0.44 J	ND	ND	ND	2.3 J	ND
	µg/L	05-Jul-11	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2 J	ND
	µg/L	09-Jan-12	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2 J	ND
	µg/L	09-Jul-12	5	ND	ND	ND	ND	ND	0.50 J	ND	ND	ND	1.1 J	ND
	µg/L	28-Jan-13	6	ND	ND	ND	ND	ND	0.5 J	ND	ND	ND	1.2 J	ND
Chloromethane	µg/L	12-Jul-05	10	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
NC 2L = 3 µg/L	µg/L	19-Jan-06	5	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	28-Jun-06	10	--	--	--	--	--	--	--	--	--	--	ND
	µg/L	11-Jul-06	10	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	31-Oct-06	10	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	17-Jan-07	5.5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	09-Jul-07	1	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	14-Jan-08	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	µg/L	30-Apr-08	1	--	--	--	--	--	--	--	--	--	ND	ND
	µg/L	14-Jul-08	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	03-Oct-08	1	--	--	--	--	--	--	--	--	--	ND	ND
	µg/L	19-Jan-09	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	20-Jul-09	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	25-Jan-10	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	06-Jul-10	1	ND	ND	ND	ND	ND	ND	ND	ND	0.43 J	ND	ND
	µg/L	04-Jan-11	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	05-Jul-11	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	09-Jan-12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	09-Jul-12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	28-Jan-13	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4- Dichlorobenzene	µg/L	09-Jul-12	1	0.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NC 2L = 6 µg/L	µg/L	28-Jan-13	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	28-Jan-13	1	0.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NC 2L = 5 µg/L														
Toluene	µg/L	28-Jan-13	1	1.5 B	0.2 B	ND	ND	ND	ND	ND	ND	ND	ND	0.2 J
NC 2L = 200 µg/L														
Trichloroethene	µg/L	12-Jul-05	5	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
NC 2L = 3 µg/L	µg/L	19-Jan-06	5	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	µg/L	28-Jun-06	5	--	--	--	--	--	--	--	--	--	--	ND
	µg/L	11-Jul-06	5	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	31-Oct-06	5	--	--	--	--	--	--	--	ND	--	--	ND
	µg/L	17-Jan-07	3	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND
	µg/L	09-Jul-07	1	0.47 J	ND	0.35 J	ND	ND	ND	ND	ND	--	--	ND
	µg/L	14-Jan-08	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	µg/L	30-Apr-08	1	--	--	--	--	--	--	--	--	--	ND	ND
	µg/L	14-Jul-08	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	03-Oct-08	1	--	--	--	--	--	--	--	--	--	ND	ND
	µg/L	19-Jan-09	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	20-Jul-09	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	25-Jan-10	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	06-Jul-10	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	04-Jan-11	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	05-Jul-11	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	09-Jan-12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	09-Jul-12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	µg/L	28-Jan-13	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 5
Summary of Historical Groundwater Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Yorktown Formation										Blanks
				Background	Downgradient									
				GW-2	GW-7	GW-8	GW-9	GW-10	GW-11	GW-13	GW-15	GW-16R	GW-17	
pH (Field)	S.U.	28-Oct-98	--	5.38	4.61	5.58	5.76	6.63	Dry	--	--	--	--	--
	S.U.	07-Apr-99	--	5.14	4.6	5.38	5.66	6.32	Dry	--	--	--	--	--
	S.U.	08-Dec-99	--	5.11	6.31	5.2	5.30	6.02	7.5	--	--	--	--	--
	S.U.	27-Apr-00	--	5.06	4.5	5.28	5.64	5.84	Dry	--	--	--	--	--
	S.U.	18-Oct-00	--	4.93	4.19	5.04	5.41	6.04	Dry	6.00	--	--	--	--
	S.U.	28-Nov-00	--	--	--	--	--	--	--	4.24	--	--	--	--
	S.U.	03-Jan-01	--	--	--	--	--	--	--	5.83	--	--	--	--
	S.U.	08-Feb-01	--	--	--	--	--	--	--	5.94	--	--	--	--
	S.U.	19-Apr-01	--	4.98	4.26	5.07	--	6.27	Dry	5.76	--	--	--	--
	S.U.	24-Dec-01	--	5.13	4.27	5.03	5.57	6.41	5.46	5.19	--	--	--	--
	S.U.	23-Apr-02	--	4.97	4.24	4.91	5.40	6.50	5.05	4.89	--	--	--	--
	S.U.	23-Oct-02	--	4.62	4.02	4.67	5.03	6.05	4.9	5.00	--	--	--	--
	S.U.	01-Apr-03	--	4.92	4.26	4.99	5.46	6.25	5.41	5.28	--	--	--	--
	S.U.	02-Sep-03	--	--	--	--	--	--	--	--	--	--	--	--
	S.U.	28-Oct-03	--	4.74	4.13	5.01	5.31	6.29	5.13	4.97	--	--	--	--
	S.U.	27-Apr-04	--	4.70	4.19	4.70	5.08	6.03	5.16	4.59	--	--	--	--
	S.U.	26-Oct-04	--	4.45	3.97	4.49	5.05	5.73	4.74	4.55	--	--	--	--
	S.U.	15-Mar-05	--	4.70	4.21	5.04	5.32	6.03	5.26	4.78	--	--	--	--
	S.U.	12-Jul-05	--	4.15	4.17	4.88	4.73	5.60	4.85	4.33	--	--	--	--
	S.U.	19-Jan-06	--	2.69	2.38	5.05	4.68	6.58	3.56	5.76	--	--	--	--
	S.U.	28-Jun-06	--	--	--	--	--	--	--	--	--	--	--	--
	S.U.	11-Jul-06	--	4.64	4.23	4.94	5.17	5.67	5.17	4.81	5.13	--	--	--
	S.U.	31-Oct-06	--	--	--	--	--	--	--	--	4.67	--	--	--
	S.U.	17-Jan-07	--	4.01	4.10	4.72	5.14	6.04	5.18	4.67	4.89	--	--	--
	S.U.	09-Jul-07	--	4.31	4.18	5.00	5.20	6.08	4.98	4.65	4.84	--	--	--
	S.U.	14-Jan-08	--	4.34	4.25	4.88	5.42	5.77	5.27	4.99	5.18	5.08	--	--
	S.U.	30-Apr-08	--	--	--	--	--	--	--	--	--	--	4.51	--
	S.U.	14-Jul-08	--	4.47	4.13	4.82	5.22	5.70	5.10	4.72	4.99	5.02	4.68	--
	S.U.	03-Oct-08	--	--	--	--	--	--	--	--	--	--	4.33	--
	S.U.	19-Jan-09	--	4.63	4.06	4.85	4.72	5.08	4.75	4.75	4.95	4.50	4.23	--
	S.U.	20-Jul-09	--	4.79	4.29	4.80	5.34	5.55	4.16	3.83	4.46	4.74	4.39	--
	S.U.	25-Jan-10	--	4.30	4.01	4.63	4.94	5.51	5.02	4.62	4.89	4.51	4.36	--
	S.U.	06-Jul-10	--	4.17	4.08	4.70	5.09	5.49	4.66	4.73	4.17	4.48	4.41	--
	S.U.	04-Jan-11	--	4.55	4.07	4.71	5.73	5.73	5.00	4.72	4.86	4.46	4.48	--
	S.U.	05-Jul-11	--	3.71	3.69	4.29	4.98	4.47	4.43	3.89	4.71	3.68	3.50	--
	S.U.	09-Jan-12	--	4.76	4.42	4.60	5.47	5.81	5.07	4.64	5.38	4.50	4.56	--
	S.U.	09-Jul-12	--	4.83	4.24	4.90	5.24	5.82	5.33	4.89	5.24	4.94	4.80	--
	S.U.	28-Jan-13		4.96	4.33	4.98	5.90	5.79	5.21	5.04	5.22	4.79	4.93	--
Conductivity (Field)	uS/cm	28-Oct-98	--	83.0	257.0	98.0	78.0	115	Dry	--	--	--	--	--
	uS/cm	07-Apr-99	--	69.41	173	75.21	52.07	67.89	Dry	--	--	--	--	--
	uS/cm	08-Dec-99	--	61.0	306	52.0	89.0	48.0	41.0	--	--	--	--	--
	uS/cm	27-Apr-00	--	78.0	210	87.0	57.0	57.0	Dry	--	--	--	--	--
	uS/cm	18-Oct-00	--	110	317	130	76.0	108	Dry	--	--	--	--	--
	uS/cm	28-Nov-00	--	--	--	--	--	--	--	191	--	--	--	--
	uS/cm	03-Jan-01	--	--	--	--	--	--	--	7.3	--	--	--	--
	uS/cm	08-Feb-01	--	--	--	--	--	--	--	75.0	--	--	--	--
	uS/cm	19-Apr-01	--	106	284	130	--	125	Dry	5.77	--	--	--	--
	uS/cm	24-Dec-01	--	85.0	224	105	71.0	104	46.0	80.0	--	--	--	--
	uS/cm	23-Apr-02	--	112	282	136	84.0	131	62.0	156	--	--	--	--
	uS/cm	23-Oct-02	--	62.0	161	77.0	49.0	75.0	37.0	41.0	--	--	--	--
	uS/cm	01-Apr-03	--	71.0	131	86.0	54.0	72.0	43.0	83.0	--	--	--	--
	uS/cm	02-Sep-03	--	--	--	--	--	--	--	--	--	--	--	--
	uS/cm	28-Oct-03	--	84.0	221	89.0	64.0	85.0	38.0	93.0	--	--	--	--
	uS/cm	27-Apr-04	--	99.0	227	108	82.0	102	53.0	118	--	--	--	--
	uS/cm	26-Oct-04	--	110	259	115	95.0	122	51.0	97.0	--	--	--	--
	uS/cm	15-Mar-05	--	108	223	94.0	79.0	97.0	47.0	91.0	--	--	--	--
	uS/cm	12-Jul-05	--	106	231	98.0	84.0	88.0	49.0	91.0	--	--	--	--
	uS/cm	19-Jan-06	--	103	214	100	66.0	98.0	47.0	89.0	--	--	--	--
	uS/cm	28-Jun-06	--	--	--	--	--	--	--	--	--	--	--	--
	uS/cm	11-Jul-06	--	147	307	146	121	129	70.0	126	106	--	--	--
	uS/cm	31-Oct-06	--	--	--	--	--	--	--	--	90.0	--	--	--
	uS/cm	17-Jan-07	--	136	291	164	112	132	52.0	98.0	92.0	--	--	--
	uS/cm	09-Jul-07	--	134	268	133	115	109	54.0	89.0	92.0	--	--	--
	uS/cm	14-Jan-08	--	212	442	208	128	279	120	252	248	53.0	--	--
	uS/cm	30-Apr-08	--	--	--	--	--	--	--	--	--	--	77.0	--
	uS/cm	14-Jul-08	--	146	301	155	113	127	69.0	118	107	39.0	82.0	--
	uS/cm	03-Oct-08	--	--	--	--	--	--	--	--	--	--	79.0	--
	uS/cm	19-Jan-09	--	138	264	164	84.0	108	64.0	113	100	38.0	86.0	--
	uS/cm	20-Jul-09	--	138	266	161	122	119	67.0	113	100	33.0	77.0	--
	uS/cm	25-Jan-10	--	139	260	149	90	127	61.0	108	100	33.0	76.0	--
	uS/cm	06-Jul-10	--	134	233	145	138	123	61.0	97.0	134	33.0	76.0	--
	uS/cm	04-Jan-11	--	140	269	148	342	135	62.0	101	100	32.0	82.0	--
	uS/cm	05-Jul-11	--	143	251	145	205	135	71.0	111	100	33.0	78.0	--
	uS/cm	09-Jan-12	--	116	201	111	219	105	51.0	93.0	79.0	29.0	62.0	--
	uS/cm	09-Jul-12	--	123.9	220.2	136.3	220.9	133.2	63.6	127.4	91.5	36.5	75.7	--
	uS/cm	28-Jan-13	--	117.6	190.1	105.1	4.2	108.9	45.9	96.5	79.8	27.5	61.4	--
Temperature (Field)	°C	28-Oct-98	--	15.3	19	19.7	18.6	15.9	Dry	--	--	--	--	--
	°C	07-Apr-99	--	16.7	17.3	17.3	15.6	17.6	Dry	--	--	--	--	--
	°C	08-Dec-99	--	15.1	17.0	25.0	17.1	16.7	17.0	--	--	--	--	--
	°C	27-Apr-00	--	15.6	13.1	14.4	13.7	12.9	Dry	--	--	--	--	--
	°C	18-Oct-00	--	16.7	19.1	19.3	20.4	16.6	Dry	--	--	--	--	--
	°C	28-Nov-00	--	--	--	--	--	--	--	15.6	--	--	--	--
	°C	03-Jan-01	--	--	--	--	--	--	--	14.5	--	--	--	--
	°C	08-Feb-01	--	--	--	--	--	--	--	16.9	--	--	--	--
	°C	19-Apr-01	--	14.9	31.0	14.7	--	13.7	Dry	17.1	--	--	--	--
	°C	24-Dec-01	--	17.9	20.2	20.7	20.8	17.7	20.1	21.6	--	--	--	--
	°C	23-Apr-02	--	15.9	16.0	15.7	15.6	14.5	18.4	17.1	--	--	--	--
	°C	23-Oct-02	--	15.8	19.1	19.4	20.3	17	17.8	15.7	--	--	--	--
	°C	01-Apr-03	--	16.9	16.4	17	14.4	15.7	18.5	17.3	--	--	--	--
	°C	02-Sep-03	--	--	--	--	--	--	--	--	--	--	--	--
	°C	28-Oct-03	--	16.5	19.1	18.0	18.1	15.9	16.6	18.3	--	--	--	--
	°C	27-Apr-04	--	16.0	17.0	15.5	14.0	15.0	17.3	19.4	--	--	--	--
	°C	26-Oct-04	--	16.8	18.8	19.1	19.7	17	18.0	15.9	--	--	--	--
	°C	15-Mar-05	--	16.18	15.79	15.8	12.86	14.6	17.44	16.39	--	--	--	--
	°C	12-Jul-05	--	16.32	16.8	16.56	18.09	15.97	17.78	17.92	--	--	--	--
	°C	19-Jan-06	--	16.61	17.5	17.51	15.06	15.39	17.88	17.19	--	--	--	--
	°C	28-Jun-06	--	--	--	--	--	--	--	--	--	--	--	--
	°C	11-Jul-06	--	16.1	16.8	17.0	18.2	15.7	17.7	17.3	19.9	--	--	--
	°C	31-Oct-06	--	--	--	--	--	--	--	--	17.6	--	--	--
	°C	17-Jan-07	--	15.6	15.6	15.8	14.5	15.0	16.6	16.0	14.9	--	--	--
	°C	09-Jul-07	--	17.09	17.81	17.53	18.9	17.00	17.75	17.80	18.61	--	--	--
	°C	14-Jan-08	--	16.26	17.88	15.93	15.44	14.32	16.65	17.53	16.65	16.64	--	--
	°C	30-Apr-08	--	--	--	--	--	--	--	--	--	--	15.09	--
	°C	14-Jul-08	--	17.17	19.03	18.84	20.55	18.13	19.59	18.67	18.44	18.38	16.22	--
	°C	03-Oct-08	--	--	--	--	--	--	--	--	--	--	16.30	--
	°C	19-Jan-09	--	15.32	14.69	15.59	13.80	13.94	16.71	15.22	15.18	13.25	12.81	--
	°C	20-Jul-09	--	17.08	19.47	18.99	19.25	16.87	19.62	18.99	19.18	17.43	18.09	--
	°C	25-Jan-10	--	16.60	16.99	16.89	14.08	14.52	18.16	17.10	16.50	15.94	15.68	--
	°C	06-Jul-10	--	17.58	20.10	18.72	21.41	16.37	19.71	25.56	17.58	17.78	18.99	--
	°C	04-Jan-11	--	16.52	17.09	16.38	14.22	14.69	17.54	16.54	15.50	15.51	15.44	--
	°C	05-Jul-11	--	17.60	19.52	19.02	22.24	17.52	21.14	17.89	19.67	16.82	17.90	--
	°C	09-Jan-12	--	15.41	15.82	14.83	13.69	13.80	15.99	15.81	13.81	16.40	14.89	--
	°C	09-Jul-12	--	17.00	18.30	18.80	19.30	16.20	18.30	19.00	19.30	16.60	18.30	--
	°C	28-Jan-13	--	16.7	16.6	16.5	13.2	14.6	17.3	16.9	14.8	16.6	17.0	--

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Summary of Historical Groundwater Constituents/Analytes
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Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Yorktown Formation										Blanks
				Background	Downgradient									
				GW-2	GW-7	GW-8	GW-9	GW-10	GW-11	GW-13	GW-15	GW-16R	GW-17	
Turbidity (Field)	NTU	28-Oct-98	--	80	65	19	13	17	Dry	--	--	--	--	--
	NTU	07-Apr-99	--	20	1.51	3.13	2.61	2.96	Dry	--	--	--	--	--
	NTU	08-Dec-99	--	20	9.46	5.04	2.24	26	19	--	--	--	--	--
	NTU	27-Apr-00	--	32	18	14	7.07	1.76	Dry	--	--	--	--	--
	NTU	18-Oct-00	--	20.4	38.1	9.2	6.39	1.6	Dry	15.9	--	--	--	--
	NTU	28-Nov-00	--	--	--	--	--	--	--	11.4	--	--	--	--
	NTU	03-Jan-01	--	--	--	--	--	--	--	11	--	--	--	--
	NTU	08-Feb-01	--	--	--	--	--	--	--	18	--	--	--	--
	NTU	19-Apr-01	--	169	31	11	--	11	Dry	16	--	--	--	--
	NTU	24-Dec-01	--	28	60	5.31	33	2.45	61	29	--	--	--	--
	NTU	23-Apr-02	--	27	26	2.08	290	450	11	4.28	--	--	--	--
	NTU	23-Oct-02	--	6.54	5.77	1.84	3.97	1.35	71	6.58	--	--	--	--
	NTU	01-Apr-03	--	44	23	2.63	15	91	44	10	--	--	--	--
	NTU	02-Sep-03	--	--	--	--	--	--	--	--	--	--	--	--
	NTU	28-Oct-03	--	34	25	1.8	25	7.99	20	13	--	--	--	--
	NTU	27-Apr-04	--	32	13	0.85	33	34	20	2.37	--	--	--	--
	NTU	26-Oct-04	--	10	10	0.89	38	5.89	29	44	--	--	--	--
	NTU	15-Mar-05	--	68.6	17.9	15.4	43.5	45.1	50.3	26.3	--	--	--	--
	NTU	12-Jul-05	--	78.0	29.7	30.3	37.3	30.3	45.2	36.3	--	--	--	--
	NTU	19-Jan-06	--	39.2	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--
	NTU	28-Jun-06	--	--	--	--	--	--	--	--	--	--	--	--
	NTU	11-Jul-06	--	33.6	3.4	1.7	25.4	31.0	34.5	15.0	78.2	--	--	--
	NTU	31-Oct-06	--	--	--	--	--	--	--	--	193	--	--	--
	NTU	17-Jan-07	--	13.0	0.0	9.5	23.7	97.20	6.9	8.8	8.3	--	--	--
	NTU	09-Jul-07	--	0.0	0.0	0.0	0.0	65.8	0.0	0.0	0.0	--	--	--
	NTU	14-Jan-08	--	7.31	5.39	1.19	37.5	24.0	1.29	0.68	9.48	4.08	--	--
	NTU	30-Apr-08	--	--	--	--	--	--	--	--	--	--	>1000	--
	NTU	14-Jul-08	--	10.6	1.10	1.46	29.5	50.6	2.61	0.40	2.03	8.77	33.1	--
	NTU	03-Oct-08	--	--	--	--	--	--	--	--	--	--	9.54	--
	NTU	19-Jan-09	--	13.8	1.81	0.41	20.9	5.82	2.99	0.39	1.76	3.04	2.45	--
	NTU	20-Jul-09	--	8.53	1.50	21.0	36.2	7.84	2.22	1.45	1.67	6.42	45.9	--
	NTU	25-Jan-10	--	4.45	3.91	1.46	57.0	29.0	20.9	3.56	2.75	8.83	14.3	--
	NTU	06-Jul-10	--	7.74	2.34	0.87	34.9	40.0	3.37	1.26	7.74	11.3	1.73	--
	NTU	04-Jan-11	--	9.95	14.3	5.51	42.2	29.8	8.01	1.41	0.78	0.67	82.2	--
	NTU	05-Jul-11	--	12.9	74.4	1.22	87.5	41.9	29.4	0.94	2.23	0.77	30.6	--
	NTU	09-Jan-12	--	10.93	9.11	7.20	5.69	10.96	6.21	6.10	28.2	6.07	49.1	--
	NTU	09-Jul-12	--	15.30	18.7	4.74	19.70	42.0	4.16	10.1	14.7	7.8	11.5	--
	NTU	28-Jan-13	--	19.79	20.7	21.09	91.31	11.91	15.29	27.1	20.1	15.26	37.8	--
Oxidation Reduction Potential (Field)	mV	15-Mar-05	--	363	411	236	121	14	270	319	--	--	--	--
	mV	12-Jul-05	--	407	412	234	173	5	279	375	--	--	--	--
	mV	19-Jan-06	--	361	370	222	174	16	283	339	--	--	--	--
	mV	28-Jun-06	--	--	--	--	--	--	--	--	--	--	--	--
	mV	11-Jul-06	--	382	309	312	216	115	317	363	290	--	--	--
	mV	31-Oct-06	--	--	--	--	--	--	--	--	343	--	--	--
	mV	17-Jan-07	--	347	391	306	153	32	290	318	305	--	--	--
	mV	09-Jul-07	--	371	431	309	204	81	290	352	328	--	--	--
	mV	14-Jan-08	--	363	403	342	166	147	317	336	317	308	--	--
	mV	14-Jul-08	--	314	365	248	114	6	247	274	257	243	291	--
	mV	03-Oct-08	--	--	--	--	--	--	--	--	--	--	260	--
	mV	19-Jan-09	--	203.8	260.9	254.4	152.1	193.3	159.2	238.9	213.8	216.4	179.8	--
	mV	20-Jul-09	--	302.4	289.1	245.3	122.3	110.0	238.0	223.1	202.5	253.0	285.4	--
	mV	25-Jan-10	--	255.6	310.6	243.0	185.9	144.4	245.0	264.1	244.5	285.2	300.7	--
	mV	06-Jul-10	--	76.9	101.1	48.2	151.4	-26.2	57.2	93.5	76.9	224.2	94.6	--
	mV	04-Jan-11	--	163.4	274.2	211.4	-5.9	85.4	138.1	160.0	151.7	219.2	243.4	--
	mV	05-Jul-11	--	224.2	273.0	245.9	131.1	151.5	207.3	261.7	231.9	260.7	271.0	--
	mV	09-Jan-12	--	121.5	95.1	104.1	33.7	-4.9	76.8	99.9	94	35.6	63.9	--
	mV	09-Jul-12	--	105.2	177.0	135.5	42.6	-41.2	75.7	116.0	103.8	53.1	127.1	--
	mV	28-Jan-13	--	289.9	385.8	220.1	19.8	150.1	249.1	288.4	269.7	261.4	287.6	--
Dissolved Oxygen (Field)	mg/L	15-Mar-05	--	4.65	2.69	1.61	1.23	1.39	2.10	5.55	--	--	--	--
	mg/L	12-Jul-05	--	6.22	3.06	0.53	1.83	1.12	2.48	6.90	--	--	--	--
	mg/L	19-Jan-06	--	3.34	0.00	0.00	0.00	0.00	0.21	3.71	--	--	--	--
	mg/L	28-Jun-06	--	--	--	--	--	--	--	--	--	--	--	--
	mg/L	11-Jul-06	--	9.31	5.50	3.00	3.32	1.60	3.52	7.88	8.05	--	--	--
	mg/L	31-Oct-06	--	--	--	--	--	--	--	--	6.30	--	--	--
	mg/L	17-Jan-07	--	8.80	3.90	1.70	2.70	2.10	4.60	7.80	7.90	--	--	--
	mg/L	09-Jul-07	--	6.30	3.20	0.90	1.60	2.30	2.70	6.80	7.00	--	--	--
	mg/L	14-Jan-08	--	8.12	4.09	4.87	2.56	3.44	3.96	8.25	8.66	6.37	--	--
	mg/L	14-Jul-08	--	7.46	3.42	1.49	2.37	0.86	2.29	6.24	6.53	4.27	4.21	--
	mg/L	03-Oct-08	--	--	--	--	--	--	--	--	--	--	5.07	--
	mg/L	19-Jan-09	--	8.53	3.27	1.79	1.62	1.26	3.01	6.69	7.15	7.23	6.07	--
	mg/L	20-Jul-09	--	7.63	4.89	3.50	2.99	0.99	2.63	6.76	6.81	3.93	4.76	--
	mg/L	25-Jan-10	--	7.95	4.55	3.54	4.67	1.29	4.89	7.10	7.27	4.40	3.95	--
	mg/L	06-Jul-10	--	7.26	4.86	3.50	0.30	4.04	5.37	5.72	7.26	2.66	3.33	--
	mg/L	04-Jan-11	--	8.43	4.15	4.46	2.30	1.84	6.24	7.95	7.07	1.00	4.04	--
	mg/L	05-Jul-11	--	6.37	3.11	1.25	3.58	0.64	1.84	7.27	7.08	2.37	5.20	--
	mg/L	09-Jan-12	--	6.04	4.44	1.87	0.60	1.41	2.75	4.91	5.5	0.36	2.64	--
	mg/L	09-Jul-12	--	0.45	4.99	3.12	0.52	0.32	1.10	2.62	1.03	0.40	3.18	--
	mg/L	28-Jan-13	--	5.43	5.81	5.79	8.63	0.69	4.09	7.15	7.26	1.90	4.51	--

Notes:
1. mg/L = milligrams per liter
2. ug/L = micrograms per liter
3. S.U. = Standard Units
4. NTU = Nephelometric Turbidity Units
5. ND = Not detected at the stated reporting limit
6. uS/cm = microsiemens per centimeter
7. mV = Millivolts
8. J = Estimated Value
9. B = Blank-Qualified Value
10. '-- = no data
11. Blanks = field, trip and method blanks
12. Shaded = Quantified Concentrations above the NC 2L or Groundwater Protection Standards (GWPS) have been shaded
13. Standards = NC 2L Groundwater Standards or North Carolina Solid Waste Section Groundwater Protection Standards
14. SWS Reporting Limit = NCPQL prior to 2007 and NCSWSL starting in 01/18/07
15. All data prior to 2012 taken from previous report by Golder Associates NC, Inc.

TABLE 6
Summary of Historical Surface Water Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Upstream		Downstream						Blanks	
				SW-1		SW-2		SW-3		SW-4			
Antimony	µg/L	12-Jul-05	30	ND		ND		ND		ND		ND	
No NC 2B Standard	µg/L	19-Jan-06	30	ND		ND		ND		ND		ND	
	µg/L	12-Jul-06	30	ND		ND		ND		ND		ND	
	µg/L	17-Jan-07	6	ND		ND		ND		ND		ND	
	µg/L	15-Jan-08	6	ND		ND		dry		ND		ND	
	µg/L	14-Jul-08	6	ND		dry		ND		dry		ND	
	µg/L	19-Jan-09	6	ND		dry		ND		ND		ND	
	µg/L	20-Jul-09	6	dry		dry		ND		ND		ND	
	µg/L	26-Jan-10	6	ND		0.440	J	0.0790	J	ND		ND	
	µg/L	06-Jul-10	6	dry		dry		dry		dry		ND	
	µg/L	04-Jan-11	6	ND		dry		ND		ND		ND	
	µg/L	05-Jul-11	6	ND		dry		dry		dry		ND	
	µg/L	10-Jan-12	6	ND		1.19	J	ND		ND		ND	
	µg/L	09-Jul-12	6	dry		dry		ND		dry		ND	
	µg/L	28-Jan-13	6	ND		1.60	J	ND		ND		ND	
Arsenic	µg/L	12-Jul-05	10	ND		ND		ND		ND		ND	
NC 2B = 50 µg/L	µg/L	19-Jan-06	10	ND		ND		ND		ND		ND	
	µg/L	12-Jul-06	10	ND		ND		ND		ND		ND	
	µg/L	17-Jan-07	10	ND		ND		ND		ND		3.4	J
	µg/L	09-Jul-07	--	dry		dry		dry		dry		--	
	µg/L	15-Jan-08	10	ND		ND		dry		2.6	J	ND	
	µg/L	14-Jul-08	10	ND		dry		ND		dry		ND	
	µg/L	19-Jan-09	10	7.9	B	dry		ND		ND		3.6	J
	µg/L	20-Jul-09	10	dry		dry		ND		6.32	J	ND	
	µg/L	26-Jan-10	10	ND		6.48	J	ND		7.95	J	ND	
	µg/L	06-Jul-10	10	dry		dry		dry		dry		ND	
	µg/L	04-Jan-11	10	5.15	J	dry		ND		ND		ND	
	µg/L	05-Jul-11	10	ND		dry		dry		dry		ND	
	µg/L	10-Jan-12	10	ND		ND		ND		ND		ND	
	µg/L	09-Jul-12	10	dry		dry		1.31	J	dry		ND	
	µg/L	28-Jan-13	10	ND		ND		ND		ND		ND	
Barium	µg/L	16-Sep-93	--	100		60		90		dry		--	
No NC 2B Standard	µg/L	20-Sep-93	--	80		50		120		dry		--	
	µg/L	22-Sep-93	--	50		60		140		dry		--	
	µg/L	24-Sep-93	--	210		50		230		dry		--	
	µg/L	04-Oct-93	--	40		70		70		dry		--	
	µg/L	20-Jan-94	--	50		130		60		40		--	
	µg/L	28-Jul-94	--	40		dry		60		50		--	
	µg/L	26-Jan-95	--	80		80		100		10		--	
	µg/L	26-Jul-95	--	ND		ND		ND		dry		--	
	µg/L	23-Jan-96	--	ND		ND		ND		dry		--	
	µg/L	10-Oct-96	--	ND		ND		ND		dry		--	
	µg/L	15-Apr-97	--	ND		ND		ND		dry		--	
	µg/L	23-Oct-97	--	ND		ND		ND		dry		--	
	µg/L	28-Apr-98	--	ND		ND		ND		ND		--	
	µg/L	15-Mar-05	500	ND		ND		ND		ND		--	
	µg/L	12-Jul-05	500	ND		ND		ND		ND		ND	
	µg/L	19-Jan-06	500	ND		ND		ND		ND		ND	
	µg/L	12-Jul-06	500	ND		ND		ND		ND		ND	
	µg/L	17-Jan-07	100	35.5		44.8		51.9		34.9		0.3	J
	µg/L	09-Jul-07	--	dry		dry		dry		dry		--	
	µg/L	15-Jan-08	100	81.3	J	92.1	J	dry		24.1	J	0.3	J
	µg/L	14-Jul-08	100	60.5	J	dry		78.8	J	dry		ND	
	µg/L	19-Jan-09	100	82.3	J	dry		65.2	J	72.2	J	ND	
	µg/L	20-Jul-09	100	dry		dry		112		159		ND	
	µg/L	26-Jan-10	100	63.1	J	79.7	J	58.8	J	63.4	J	0.434	J
	µg/L	06-Jul-10	100	dry		dry		dry		dry		ND	
	µg/L	04-Jan-11	100	56.9	J	dry		59.6	J	87.6	J	1.11	J
	µg/L	05-Jul-11	100	110		dry		dry		dry		ND	
	µg/L	10-Jan-12	100	47.4	J	82.1	J	65.0	J	112		0.24	J
	µg/L	09-Jul-12	100	dry		dry		105.0		dry		0.75	J
	µg/L	28-Jan-13	100	124		49.6	J	72.6	J	92.7	J	ND	

TABLE 6
Summary of Historical Surface Water Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Upstream		Downstream						Blanks	
				SW-1		SW-2		SW-3		SW-4			
Beryllium	µg/L	12-Jul-05	2	ND		ND		ND		ND		ND	
NC 2B = 6.5 µg/L	µg/L	19-Jan-06	2	ND		ND		ND		ND		ND	
	µg/L	12-Jul-06	2	ND		ND		ND		ND		ND	
	µg/L	17-Jan-07	1	ND		ND		ND		ND		ND	
	µg/L	15-Jan-08	1	ND		ND		dry		ND		ND	
	µg/L	14-Jul-08	1	ND		dry		ND		dry		ND	
	µg/L	19-Jan-09	1	0.1	J	dry		ND		ND		ND	
	µg/L	20-Jul-09	1	dry		dry		ND		0.950		0.0779	J
	µg/L	26-Jan-10	1	0.260	J	0.332	J	0.206	J	0.389	J	ND	
	µg/L	06-Jul-10	1	dry		dry		dry		dry		ND	
	µg/L	04-Jan-11	1	0.212	J	dry		0.178	J	0.174	J	ND	
	µg/L	05-Jul-11	1	0.272	J	dry		dry		dry		ND	
	µg/L	10-Jan-12	1	0.15	J	ND		0.70	J	0.35	J	ND	
	µg/L	09-Jul-12	1	dry		dry		ND		dry		ND	
	µg/L	28-Jan-13	1	0.25	J	ND		ND		0.16	J	ND	
Cadmium	µg/L	16-Sep-93	--	ND		ND		1		dry		--	
NC 2B = 2 µg/L	µg/L	20-Sep-93	--	1		ND		ND		dry		--	
	µg/L	22-Sep-93	--	ND		ND		ND		dry		--	
	µg/L	24-Sep-93	--	ND		ND		ND		dry		--	
	µg/L	04-Oct-93	--	ND		ND		ND		dry		--	
	µg/L	20-Jan-94	--	ND		ND		ND		ND		--	
	µg/L	28-Jul-94	--	5		dry		ND		ND		--	
	µg/L	26-Jan-95	--	ND		--		ND		ND		--	
	µg/L	26-Jul-95	--	ND		ND		ND		dry		--	
	µg/L	23-Jan-96	--	ND		ND		ND		dry		--	
	µg/L	10-Oct-96	--	ND		ND		ND		dry		--	
	µg/L	15-Apr-97	--	ND		ND		ND		dry		--	
	µg/L	23-Oct-97	--	ND		ND		ND		dry		--	
	µg/L	28-Apr-98	--	1.3		ND		ND		ND		--	
	µg/L	15-Mar-05	1	ND		ND		ND		ND		--	
	µg/L	12-Jul-05	1	ND		ND		ND		ND		ND	
	µg/L	19-Jan-06	1	ND		ND		ND		ND		ND	
	µg/L	12-Jul-06	1	ND		ND		ND		ND		ND	
	µg/L	17-Jan-07	1	ND		ND		ND		ND		ND	
	µg/L	09-Jul-07	--	dry		dry		dry		dry		--	
	µg/L	15-Jan-08	1	ND		ND		dry		ND		ND	
	µg/L	14-Jul-08	1	ND		dry		ND		dry		ND	
	µg/L	19-Jan-09	1	0.40	J	dry		ND		ND		ND	
	µg/L	20-Jul-09	1	dry		dry		ND		0.266	B	0.112	J
	µg/L	26-Jan-10	1	0.347	B	0.411	B	0.243	B	0.690	B	0.277	J
	µg/L	06-Jul-10	1	dry		dry		dry		dry		ND	
	µg/L	04-Jan-11	1	ND		dry		ND		ND		ND	
	µg/L	05-Jul-11	1	ND		dry		dry		dry		ND	
	µg/L	10-Jan-12	1	ND		ND		ND		ND		ND	
	µg/L	09-Jul-12	1	dry		dry		ND		dry		ND	
	µg/L	28-Jan-13	1	ND		ND		ND		ND		ND	

TABLE 6
Summary of Historical Surface Water Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Upstream		Downstream						Blanks	
				SW-1		SW-2		SW-3		SW-4			
Chromium	µg/L	16-Sep-93	--	ND		ND		10		dry		--	
NC 2B = 50 µg/L	µg/L	20-Sep-93	--	ND		ND		ND		dry		--	
	µg/L	22-Sep-93	--	ND		ND		10		dry		--	
	µg/L	24-Sep-93	--	70		ND		70		dry		--	
	µg/L	04-Oct-93	--	1		ND		ND		dry		--	
	µg/L	20-Jan-94	--	ND		ND		ND		ND		--	
	µg/L	28-Jul-94	--	ND		dry		ND		ND		--	
	µg/L	26-Jan-95	--	ND		ND		ND		ND		--	
	µg/L	26-Jul-95	--	ND		ND		ND		dry		--	
	µg/L	23-Jan-96	--	ND		ND		ND		dry		--	
	µg/L	10-Oct-96	--	ND		ND		ND		dry		--	
	µg/L	15-Apr-97	--	ND		ND		ND		dry		--	
	µg/L	23-Oct-97	--	ND		ND		ND		dry		--	
	µg/L	28-Apr-98	--	ND		ND		ND		ND		--	
	µg/L	28-Oct-98	10	ND		ND		dry		dry		--	
	µg/L	07-Apr-99	10	ND		ND		ND		ND		--	
	µg/L	08-Dec-99	10	ND		dry		ND		ND		--	
	µg/L	27-Apr-00	10	ND		ND		ND		ND		--	
	µg/L	18-Oct-00	10	ND		dry		ND		dry		--	
	µg/L	18-Apr-01	10	ND		ND		ND		ND		--	
	µg/L	24-Oct-01	10	ND		ND		ND		ND		--	
	µg/L	23-Apr-02	10	ND		ND		ND		ND		--	
	µg/L	23-Oct-02	10	ND		ND		ND		ND		--	
	µg/L	01-Apr-03	10	ND		ND		ND		ND		--	
	µg/L	27-Oct-03	10	ND		40		ND		dry		--	
	µg/L	27-Apr-04	10	ND		40		ND		ND		--	
	µg/L	26-Oct-04	10	ND		ND		ND		ND		--	
	µg/L	15-Mar-05	10	ND		ND		ND		ND		ND	
	µg/L	12-Jul-05	10	ND		ND		ND		ND		ND	
	µg/L	19-Jan-06	10	ND		ND		ND		ND		ND	
	µg/L	12-Jul-06	10	ND		ND		ND		ND		ND	
	µg/L	17-Jan-07	10	ND		3.3	J	ND		ND		ND	
	µg/L	09-Jul-07	--	dry		dry		dry		dry		--	
	µg/L	15-Jan-08	10	ND		ND		dry		ND		ND	
	µg/L	14-Jul-08	10	1.6	J	dry		ND		dry		ND	
	µg/L	19-Jan-09	10	2.9	J	dry		ND		3.4	J	ND	
	µg/L	20-Jul-09	10	dry		dry		ND		38.3		ND	
	µg/L	26-Jan-10	10	ND		12.1		2.12	J	13.1		ND	
	µg/L	06-Jul-10	10	dry		dry		dry		dry		ND	
	µg/L	04-Jan-11	10	1.10	J	dry		1.40	J	5.21	J	ND	
	µg/L	05-Jul-11	10	5.03	J	dry		dry		dry		ND	
	µg/L	10-Jan-12	10	2.60	J	1.63	J	0.63	J	8.60	J	ND	
	µg/L	09-Jul-12	10	dry		dry		ND		dry		ND	
	µg/L	28-Jan-13	10	1.82	B	3.22	B	2.92	B	7.65	B	1.38	J

TABLE 6
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East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Upstream		Downstream						Blanks	
				SW-1		SW-2		SW-3		SW-4			
Cobalt	µg/L	16-Sep-93	--	ND		ND		ND		dry		--	
No NC 2B Standard	µg/L	20-Sep-93	--	ND		ND		ND		dry		--	
	µg/L	22-Sep-93	--	ND		ND		ND		dry		--	
	µg/L	24-Sep-93	--	ND		ND		ND		dry		--	
	µg/L	04-Oct-93	--	ND		ND		ND		dry		--	
	µg/L	20-Jan-94	--	ND		ND		ND		ND		--	
	µg/L	28-Jul-94	--	ND		dry		ND		ND		--	
	µg/L	26-Jan-95	--	ND		10		ND		ND		--	
	µg/L	26-Jul-95	--	ND		ND		ND		dry		--	
	µg/L	23-Jan-96	--	ND		ND		ND		dry		--	
	µg/L	10-Oct-96	--	ND		ND		ND		dry		--	
	µg/L	15-Apr-97	--	ND		ND		ND		dry		--	
	µg/L	23-Oct-97	--	ND		ND		ND		dry		--	
	µg/L	28-Apr-98	--	ND		ND		ND		ND		--	
	µg/L	28-Oct-98	10	ND		ND		dry		dry		--	
	µg/L	07-Apr-99	10	ND		ND		ND		ND		--	
	µg/L	08-Dec-99	10	ND		dry		ND		ND		--	
	µg/L	27-Apr-00	10	ND		ND		ND		ND		--	
	µg/L	18-Oct-00	10	ND		dry		ND		dry		--	
	µg/L	18-Apr-01	10	ND		ND		ND		ND		--	
	µg/L	24-Oct-01	10	ND		ND		ND		ND		--	
	µg/L	23-Apr-02	10	ND		ND		ND		ND		--	
	µg/L	23-Oct-02	10	ND		ND		ND		ND		--	
	µg/L	01-Apr-03	10	ND		ND		ND		ND		--	
	µg/L	27-Oct-03	10	ND		10		ND		dry		--	
	µg/L	27-Apr-04	10	ND		ND		ND		ND		--	
	µg/L	26-Oct-04	10	ND		ND		ND		ND		--	
	µg/L	15-Mar-05	10	ND		ND		ND		ND		ND	
	µg/L	12-Jul-05	10	ND		ND		ND		ND		ND	
	µg/L	19-Jan-06	10	ND		ND		ND		ND		ND	
	µg/L	12-Jul-06	10	ND		ND		ND		ND		ND	
	µg/L	17-Jan-07	10	ND		ND		ND		ND		ND	
	µg/L	09-Jul-07	--	dry		dry		dry		dry		--	
	µg/L	15-Jan-08	10	ND		2.9	J	dry		ND		ND	
	µg/L	14-Jul-08	10	ND		dry		ND		dry		ND	
	µg/L	19-Jan-09	10	4.4	J	dry		ND		1.5	J	ND	
	µg/L	20-Jul-09	10	dry		dry		0.968	J	5.81	J	ND	
	µg/L	26-Jan-10	10	2.14	B	2.85	J	1.29	B	2.70	J	0.485	J
	µg/L	06-Jul-10	10	dry		dry		dry		dry		ND	
	µg/L	04-Jan-11	10	1.51	J	dry		ND		3.01	J	ND	
	µg/L	05-Jul-11	10	ND		dry		dry		dry		ND	
	µg/L	10-Jan-12	10	1.50	J	0.69	J	0.86	J	5.03	J	ND	
	µg/L	09-Jul-12	10	dry		dry		1.63	J	dry		ND	
	µg/L	28-Jan-13	10	2.30	J	1.03	J	1.32	J	3.34	J	ND	

TABLE 6
Summary of Historical Surface Water Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Upstream		Downstream						Blanks	
				SW-1		SW-2		SW-3		SW-4			
Copper	µg/L	16-Sep-93	--	ND		ND		ND		dry		--	
NC 2B = 7 µg/L	µg/L	20-Sep-93	--	ND		ND		30		dry		--	
	µg/L	22-Sep-93	--	ND		ND		30		dry		--	
	µg/L	24-Sep-93	--	20		ND		30		dry		--	
	µg/L	04-Oct-93	--	ND		ND		ND		dry		--	
	µg/L	20-Jan-94	--	ND		ND		ND		ND		--	
	µg/L	28-Jul-94	--	ND		dry		ND		ND		--	
	µg/L	26-Jan-95	--	ND		ND		ND		ND		--	
	µg/L	26-Jul-95	--	ND		ND		ND		dry		--	
	µg/L	23-Jan-96	--	ND		ND		ND		dry		--	
	µg/L	10-Oct-96	--	ND		ND		ND		dry		--	
	µg/L	15-Apr-97	--	ND		ND		ND		dry		--	
	µg/L	23-Oct-97	--	ND		50		ND		dry		--	
	µg/L	28-Apr-98	--	ND		ND		ND		ND		--	
	µg/L	15-Mar-05	200	ND		ND		ND		ND		ND	
	µg/L	12-Jul-05	200	ND		ND		ND		ND		ND	
	µg/L	19-Jan-06	200	ND		ND		ND		ND		ND	
	µg/L	12-Jul-06	200	ND		ND		ND		ND		ND	
	µg/L	17-Jan-07	10	ND		4.5	J	ND		ND		ND	
	µg/L	09-Jul-07	--	dry		dry		dry		dry		--	
	µg/L	15-Jan-08	10	ND		ND		dry		ND		0.7	J
	µg/L	14-Jul-08	10	ND		dry		ND		dry		ND	
	µg/L	19-Jan-09	10	3.20	J	dry		ND		ND		ND	
	µg/L	20-Jul-09	10	dry		dry		ND		6.67	J	1.25	J
	µg/L	26-Jan-10	10	ND		3.19	J	ND		4.25	J	ND	
	µg/L	06-Jul-10	10	dry		dry		dry		dry		ND	
	µg/L	04-Jan-11	10	ND		dry		1.67	J	2.02	J	ND	
	µg/L	05-Jul-11	10	1.83	J	dry		dry		dry		ND	
	µg/L	10-Jan-12	10	1.74	B	2.04	B	0.98	B	4.10	J	0.66	J
	µg/L	09-Jul-12	10	dry		dry		ND		dry		ND	
	µg/L	28-Jan-13	10	1.27	B	6.90	J	1.30	B	3.79	J	0.26	J

TABLE 6
Summary of Historical Surface Water Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Upstream		Downstream						Blanks	
				SW-1		SW-2		SW-3		SW-4			
Lead	µg/L	16-Sep-93	--	ND		ND		31		dry		--	
NC 2B = 25 µg/L	µg/L	20-Sep-93	--	16		9		19		dry		--	
	µg/L	22-Sep-93	--	7		ND		33		dry		--	
	µg/L	24-Sep-93	--	36		ND		44		dry		--	
	µg/L	04-Oct-93	--	9		ND		ND		dry		--	
	µg/L	20-Jan-94	--	ND		ND		ND		ND		--	
	µg/L	28-Jul-94	--	ND		dry		ND		ND		--	
	µg/L	26-Jan-95	--	ND		ND		ND		ND		--	
	µg/L	26-Jul-95	--	ND		ND		ND		dry		--	
	µg/L	23-Jan-96	--	ND		ND		ND		dry		--	
	µg/L	10-Oct-96	--	ND		ND		ND		dry		--	
	µg/L	15-Apr-97	--	ND		ND		ND		dry		--	
	µg/L	23-Oct-97	--	ND		ND		ND		dry		--	
	µg/L	28-Apr-98	--	ND		ND		ND		ND		--	
	µg/L	28-Oct-98	10	ND		ND		dry		dry		--	
	µg/L	07-Apr-99	10	ND		ND		ND		ND		--	
	µg/L	08-Dec-99	10	ND		dry		ND		ND		--	
	µg/L	27-Apr-00	10	ND		ND		ND		ND		--	
	µg/L	18-Oct-00	10	ND		dry		ND		dry		--	
	µg/L	18-Apr-01	10	ND		ND		ND		ND		--	
	µg/L	24-Oct-01	10	ND		ND		ND		ND		--	
	µg/L	23-Apr-02	10	ND		ND		ND		ND		--	
	µg/L	23-Oct-02	10	ND		ND		ND		ND		--	
	µg/L	01-Apr-03	10	ND		ND		ND		ND		--	
	µg/L	27-Oct-03	10	ND		30		ND		dry		--	
	µg/L	27-Apr-04	10	ND		20		ND		ND		--	
	µg/L	26-Oct-04	10	ND		ND		ND		ND		--	
	µg/L	15-Mar-05	10	ND		ND		ND		ND		ND	
	µg/L	12-Jul-05	10	ND		ND		ND		ND		ND	
	µg/L	19-Jan-06	10	ND		ND		ND		ND		ND	
	µg/L	12-Jul-06	10	ND		ND		ND		ND		ND	
	µg/L	17-Jan-07	10	ND		ND		2.7	J	ND		ND	
	µg/L	09-Jul-07	--	dry		dry		dry		dry		--	
	µg/L	15-Jan-08	10	ND		ND		dry		ND		ND	
	µg/L	14-Jul-08	10	2.4	J	dry		ND		dry		ND	
	µg/L	19-Jan-09	10	ND		dry		ND		ND		ND	
	µg/L	20-Jul-09	10	dry		dry		1.65	B	18.4		2.16	J
	µg/L	26-Jan-10	10	ND		7.63	J	1.42	J	9.38	J	ND	
	µg/L	06-Jul-10	10	dry		dry		dry		dry		ND	
	µg/L	04-Jan-11	10	ND		dry		ND		ND		ND	
	µg/L	05-Jul-11	10	10.3		dry		dry		dry		ND	
	µg/L	10-Jan-12	10	2.59	B	3.04	B	1.40	B	4.39	B	0.94	J
	µg/L	09-Jul-12	10	dry		dry		0.41	J	dry		ND	
	µg/L	28-Jan-13	10	0.94	J	1.26	J	0.65	J	4.32	J	ND	

TABLE 6
Summary of Historical Surface Water Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Upstream		Downstream						Blanks	
				SW-1		SW-2		SW-3		SW-4			
Nickel	µg/L	16-Sep-93	--	ND		ND		ND		dry		--	
NC 2B = 25 µg/L	µg/L	20-Sep-93	--	ND		ND		ND		dry		--	
	µg/L	22-Sep-93	--	ND		ND		ND		dry		--	
	µg/L	24-Sep-93	--	ND		ND		ND		dry		--	
	µg/L	04-Oct-93	--	30		ND		ND		dry		--	
	µg/L	20-Jan-94	--	ND		ND		ND		ND		--	
	µg/L	28-Jul-94	--	ND		dry		ND		ND		--	
	µg/L	26-Jan-95	--	ND		ND		ND		ND		--	
	µg/L	26-Jul-95	--	ND		ND		ND		dry		--	
	µg/L	23-Jan-96	--	ND		ND		ND		dry		--	
	µg/L	10-Oct-96	--	ND		ND		ND		dry		--	
	µg/L	15-Apr-97	--	ND		ND		ND		dry		--	
	µg/L	23-Oct-97	--	ND		ND		ND		dry		--	
	µg/L	28-Apr-98	--	ND		ND		ND		ND		--	
	µg/L	28-Oct-98	50	ND		ND		dry		dry		--	
	µg/L	07-Apr-99	50	ND		ND		ND		ND		--	
	µg/L	08-Dec-99	50	50		dry		ND		ND		--	
	µg/L	27-Apr-00	50	ND		ND		ND		ND		--	
	µg/L	18-Oct-00	50	ND		dry		ND		dry		--	
	µg/L	18-Apr-01	50	ND		ND		ND		ND		--	
	µg/L	24-Oct-01	50	ND		ND		ND		ND		--	
	µg/L	23-Apr-02	50	ND		ND		ND		ND		--	
	µg/L	23-Oct-02	50	ND		ND		ND		ND		--	
	µg/L	01-Apr-03	50	ND		ND		ND		ND		--	
	µg/L	27-Oct-03	50	ND		ND		ND		dry		--	
	µg/L	27-Apr-04	50	ND		ND		ND		ND		--	
	µg/L	26-Oct-04	50	ND		ND		ND		ND		--	
	µg/L	15-Mar-05	50	ND		ND		ND		ND		ND	
	µg/L	12-Jul-05	50	ND		ND		ND		ND		ND	
	µg/L	19-Jan-06	50	ND		ND		ND		ND		ND	
	µg/L	12-Jul-06	50	ND		ND		ND		ND		ND	
	µg/L	17-Jan-07	50	ND		3.8	J	2.8	J	3.0	J	ND	
	µg/L	09-Jul-07	--	dry		dry		dry		dry		--	
	µg/L	15-Jan-08	50	ND		2.4	J	dry		ND		ND	
	µg/L	14-Jul-08	50	ND		dry		ND		dry		ND	
	µg/L	19-Jan-09	50	ND		dry		2.1	B	4.0	B	2.2	J
	µg/L	20-Jul-09	50	dry		dry		1.72	J	11.4	J	ND	
	µg/L	26-Jan-10	50	ND		2.83	J	ND		2.43	J	ND	
	µg/L	06-Jul-10	50	dry		dry		dry		dry		ND	
	µg/L	04-Jan-11	50	ND		dry		ND		3.41	J	ND	
	µg/L	05-Jul-11	50	2.76	J	dry		dry		dry		ND	
	µg/L	10-Jan-12	50	2.09	J	3.92	J	1.67	J	7.58	J	ND	
	µg/L	09-Jul-12	50	dry		dry		1.10	J	dry		ND	
	µg/L	28-Jan-13	50	2.08	J	5.04	J	1.90	J	4.94	J	ND	

TABLE 6
Summary of Historical Surface Water Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Upstream		Downstream						Blanks	
				SW-1		SW-2		SW-3		SW-4			
Selenium	µg/L	12-Jul-05	20	ND		ND		ND		ND		ND	
NC 2B = 5 µg/L	µg/L	19-Jan-06	20	ND		ND		ND		ND		ND	
	µg/L	12-Jul-06	20	ND		ND		ND		ND		ND	
	µg/L	17-Jan-07	10	ND		ND		3.4	J	ND		ND	
	µg/L	09-Jul-07	--	dry		dry		dry		dry		--	
	µg/L	15-Jan-08	10	ND		ND		dry		ND		ND	
	µg/L	14-Jul-08	10	ND		dry		ND		dry		ND	
	µg/L	19-Jan-09	10	ND		dry		ND		ND		ND	
	µg/L	20-Jul-09	10	dry		dry		ND		6.20	B	3.58	J
	µg/L	26-Jan-10	10	ND		1.74	J	0.937	J	ND		ND	
	µg/L	06-Jul-10	10	dry		dry		dry		dry		ND	
	µg/L	04-Jan-11	10	ND		dry		ND		ND		ND	
	µg/L	05-Jul-11	10	ND		dry		dry		dry		ND	
	µg/L	10-Jan-12	10	ND		ND		ND		ND		ND	
	µg/L	09-Jul-12	10	dry		dry		ND		dry		ND	
	µg/L	28-Jan-13	10	ND		0.99	J	ND		ND		ND	
Silver	µg/L	16-Sep-93	--	ND		ND		ND		dry		--	
NC 2B = 0.06 µg/L	µg/L	20-Sep-93	--	ND		ND		ND		dry		--	
	µg/L	22-Sep-93	--	ND		10		ND		dry		--	
	µg/L	24-Sep-93	--	ND		ND		ND		dry		--	
	µg/L	04-Oct-93	--	ND		ND		ND		dry		--	
	µg/L	20-Jan-94	--	ND		ND		ND		ND		--	
	µg/L	28-Jul-94	--	ND		dry		ND		ND		--	
	µg/L	26-Jan-95	--	ND		ND		ND		ND		--	
	µg/L	26-Jul-95	--	ND		ND		ND		dry		--	
	µg/L	23-Jan-96	--	ND		ND		ND		dry		--	
	µg/L	10-Oct-96	--	ND		ND		ND		dry		--	
	µg/L	15-Mar-05	10	ND		ND		ND		ND		ND	
	µg/L	12-Jul-05	10	ND		ND		ND		ND		ND	
	µg/L	19-Jan-06	10	ND		ND		ND		ND		ND	
	µg/L	12-Jul-06	10	ND		ND		ND		ND		ND	
	µg/L	17-Jan-07	10	ND		ND		ND		ND		ND	
	µg/L	09-Jul-07	--	dry		dry		dry		dry		--	
	µg/L	15-Jan-08	10	ND		ND		dry		ND		ND	
	µg/L	14-Jul-08	10	ND		dry		ND		dry		ND	
	µg/L	19-Jan-09	10	2.4	J	dry		ND		ND		ND	
	µg/L	20-Jul-09	10	dry		dry		ND		ND		ND	
	µg/L	26-Jan-10	10	1.93	B	2.43	B	1.68	B	2.19	B	1.25	J
	µg/L	06-Jul-10	10	dry		dry		dry		dry		ND	
	µg/L	04-Jan-11	10	ND		dry		ND		ND		ND	
	µg/L	05-Jul-11	10	ND		dry		dry		dry		ND	
	µg/L	10-Jan-12	10	ND		ND		ND		ND		ND	
	µg/L	09-Jul-12	10	dry		dry		ND		dry		ND	
	µg/L	28-Jan-13	10	ND		ND		ND		ND		ND	
Thallium	µg/L	12-Jul-05	10	ND		ND		ND		ND		ND	
No NC 2B Standard	µg/L	19-Jan-06	10	ND		ND		ND		ND		ND	
	µg/L	12-Jul-06	10	ND		ND		ND		ND		ND	
	µg/L	17-Jan-07	5.5	ND		ND		ND		ND		ND	
	µg/L	15-Jan-08	5.5	0.039	J	0.056	J	dry		ND		ND	
	µg/L	14-Jul-08	5.5	ND		dry		ND		dry		ND	
	µg/L	19-Jan-09	5.5	ND		dry		ND		ND		ND	
	µg/L	20-Jul-09	5.5	dry		dry		ND		0.0510	J	ND	
	µg/L	26-Jan-10	5.5	ND		ND		ND		ND		ND	
	µg/L	06-Jul-10	5.5	dry		dry		dry		dry		ND	
	µg/L	04-Jan-11	5.5	ND		dry		ND		ND		ND	
	µg/L	05-Jul-11	5.5	ND		dry		dry		dry		ND	
	µg/L	10-Jan-12	5.5	ND		ND		ND		0.08	J	ND	
	µg/L	09-Jul-12	5.5	dry		dry		ND		dry		ND	
	µg/L	28-Jan-13	5.5	ND		ND		ND		ND		ND	

TABLE 6
Summary of Historical Surface Water Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Upstream		Downstream						Blanks	
				SW-1		SW-2		SW-3		SW-4			
Vanadium	µg/L	16-Sep-93	--	ND		ND		40		dry		--	
No NC 2B Standard	µg/L	20-Sep-93	--	ND		ND		70		dry		--	
	µg/L	22-Sep-93	--	30		ND		100		dry		--	
	µg/L	24-Sep-93	--	280		ND		200		dry		--	
	µg/L	04-Oct-93	--	ND		ND		ND		dry		--	
	µg/L	20-Jan-94	--	ND		ND		ND		ND		--	
	µg/L	28-Jul-94	--	ND		dry		ND		ND		--	
	µg/L	26-Jan-95	--	ND		ND		ND		ND		--	
	µg/L	26-Jul-95	--	ND		ND		ND		dry		--	
	µg/L	23-Jan-96	--	ND		ND		ND		dry		--	
	µg/L	10-Oct-96	--	ND		ND		ND		dry		--	
	µg/L	15-Apr-97	--	ND		ND		ND		dry		--	
	µg/L	23-Oct-97	--	ND		ND		ND		dry		--	
	µg/L	28-Apr-98	--	ND		ND		ND		ND		--	
	µg/L	28-Oct-98	40	ND		ND		dry		dry		--	
	µg/L	07-Apr-99	40	ND		ND		ND		ND		--	
	µg/L	08-Dec-99	40	ND		dry		ND		ND		--	
	µg/L	27-Apr-00	40	ND		ND		ND		ND		--	
	µg/L	18-Oct-00	40	ND		dry		ND		dry		--	
	µg/L	18-Apr-01	40	ND		ND		ND		ND		--	
	µg/L	24-Oct-01	40	ND		ND		ND		ND		--	
	µg/L	23-Apr-02	40	ND		ND		ND		ND		--	
	µg/L	23-Oct-02	40	ND		ND		ND		ND		--	
	µg/L	01-Apr-03	40	ND		ND		ND		ND		--	
	µg/L	27-Oct-03	40	ND		60		ND		dry		--	
	µg/L	27-Apr-04	40	ND		60		ND		ND		--	
	µg/L	26-Oct-04	40	ND		ND		ND		ND		--	
	µg/L	15-Mar-05	40	ND		ND		ND		ND		ND	
	µg/L	12-Jul-05	40	ND		ND		ND		ND		ND	
	µg/L	19-Jan-06	40	ND		ND		ND		ND		ND	
	µg/L	12-Jul-06	40	ND		ND		ND		ND		ND	
	µg/L	17-Jan-07	25	2.2	J	2.8	J	2.3	J	2.2	J	ND	
	µg/L	09-Jul-07	--	dry		dry		dry		dry		--	
	µg/L	15-Jan-08	25	4.1	J	ND		dry		1	B	1	J
	µg/L	14-Jul-08	25	6.3	J	dry		ND		dry		ND	
	µg/L	19-Jan-09	25	2.3	J	dry		ND		5.7	J	ND	
	µg/L	20-Jul-09	25	dry		dry		2.11	B	69.0		0.803	J
	µg/L	26-Jan-10	25	1.01	J	23.8	J	4.21	J	23.8	J	ND	
	µg/L	06-Jul-10	25	dry		dry		dry		dry		ND	
	µg/L	04-Jan-11	25	1.51	J	dry		2.02	J	10.0	J	ND	
	µg/L	05-Jul-11	25	17.2	J	dry		dry		dry		ND	
	µg/L	10-Jan-12	25	7.62	J	3.93	J	ND		13.2	J	ND	
	µg/L	09-Jul-12	25	dry		dry		ND		dry		ND	
	µg/L	28-Jan-13	25	3.62	B	9.56	B	3.68	B	10.6	B	2.68	J

TABLE 6
Summary of Historical Surface Water Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Upstream		Downstream						Blanks	
				SW-1		SW-2		SW-3		SW-4			
Zinc	µg/L	16-Sep-93	--	30		20		60		dry		--	
NC 2B = 50 µg/L	µg/L	20-Sep-93	--	130		40		120		dry		--	
	µg/L	22-Sep-93	--	100		60		340		dry		--	
	µg/L	24-Sep-93	--	240		70		420		dry		--	
	µg/L	04-Oct-93	--	1000		190		70		dry		--	
	µg/L	20-Jan-94	--	60		200		70		70		--	
	µg/L	28-Jul-94	--	120		dry		ND		30		--	
	µg/L	26-Jan-95	--	ND		30		60		60		--	
	µg/L	26-Jul-95	--	ND		ND		ND		dry		--	
	µg/L	23-Jan-96	--	ND		ND		ND		dry		--	
	µg/L	10-Oct-96	--	ND		ND		ND		dry		--	
	µg/L	15-Apr-97	--	80		60		60		dry		--	
	µg/L	23-Oct-97	--	100		60		30		dry		--	
	µg/L	28-Apr-98	--	50		ND		ND		ND		--	
	µg/L	28-Oct-98	50	ND		ND		dry		dry		--	
	µg/L	07-Apr-99	50	30		40		30		40		--	
	µg/L	08-Dec-99	50	60		dry		50		60		--	
	µg/L	27-Apr-00	50	ND		70		60		ND		--	
	µg/L	18-Oct-00	50	50		dry		70		dry		--	
	µg/L	18-Apr-01	50	ND		ND		ND		ND		--	
	µg/L	24-Oct-01	50	ND		ND		ND		ND		--	
	µg/L	23-Apr-02	50	ND		50		ND		ND		--	
	µg/L	23-Oct-02	50	ND		60		ND		ND		--	
	µg/L	01-Apr-03	50	60		30		50		70		--	
	µg/L	27-Oct-03	50	ND		130		70		dry		--	
	µg/L	27-Apr-04	50	ND		60		ND		ND		--	
	µg/L	26-Oct-04	50	ND		ND		ND		ND		--	
	µg/L	15-Mar-05	50	ND		ND		ND		ND		ND	
	µg/L	12-Jul-05	50	100		ND		ND		ND		ND	
	µg/L	19-Jan-06	50	ND		ND		79		ND		ND	
	µg/L	12-Jul-06	50	ND		ND		ND		ND		ND	
	µg/L	17-Jan-07	10	15.8	B	9.2	B	16.9	B	11.6	B	5.5	J
	µg/L	09-Jul-07	--	dry		dry		dry		dry		--	
	µg/L	15-Jan-08	10	8.7	J	13.6		dry		5.7	B	1.3	J
	µg/L	14-Jul-08	10	17.3	B	dry		7.8	B	dry		5	J
	µg/L	19-Jan-09	10	17.0		dry		14.0		33.2		ND	
	µg/L	20-Jul-09	10	dry		dry		6.05	J	55.6		ND	
	µg/L	26-Jan-10	10	8.13	J	17.4		9.78	J	35.2		ND	
	µg/L	06-Jul-10	10	dry		dry		dry		dry		ND	
	µg/L	04-Jan-11	10	5.84	J	dry		8.05	J	64.0		ND	
	µg/L	05-Jul-11	10	10.5		dry		dry		dry		ND	
	µg/L	10-Jan-12	10	10.2	B	57.3	B	5.39	B	132		15.9	
	µg/L	09-Jul-12	10	dry		dry		1.37	J	dry		0.3	J
	µg/L	28-Jan-13	10	10.9		5.11	B	4.93	B	86.5		0.57	J

TABLE 6
Summary of Historical Surface Water Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Upstream	Downstream			Blanks
				SW-1	SW-2	SW-3	SW-4	
Acetone	µg/L	12-Jul-05	100	ND	ND	ND	ND	ND
No NC 2B Standard	µg/L	19-Jan-06	100	ND	ND	ND	ND	ND
	µg/L	12-Jul-06	100	ND	ND	ND	ND	ND
	µg/L	17-Jan-07	100	ND	ND	ND	ND	ND
	µg/L	15-Jan-08	100	ND	ND	dry	ND	ND
	µg/L	14-Jul-08	100	ND	dry	8.9 J	dry	ND
	µg/L	19-Jan-09	100	ND	dry	ND	ND	ND
	µg/L	20-Jul-09	100	dry	dry	5.7 J	ND	ND
	µg/L	26-Jan-10	100	ND	ND	ND	ND	ND
	µg/L	06-Jul-10	100	dry	dry	dry	dry	ND
	µg/L	04-Jan-11	100	ND	dry	ND	ND	ND
	µg/L	05-Jul-11	100	7.4 J	dry	dry	dry	ND
	µg/L	10-Jan-12	100	ND	ND	ND	ND	ND
	µg/L	09-Jul-12	100	dry	dry	ND	dry	ND
	µg/L	28-Jan-13	100	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	µg/L	24-Sep-93	--	150	ND	ND	dry	--
NC 2B = 26 µg/L	µg/L	15-Mar-05	100	ND	ND	ND	ND	--
	µg/L	12-Jul-05	100	ND	ND	ND	ND	ND
	µg/L	19-Jan-06	10	ND	ND	ND	ND	ND
	µg/L	12-Jul-06	100	ND	ND	ND	ND	ND
	µg/L	17-Jan-07	100	ND	ND	ND	ND	ND
	µg/L	09-Jul-07	--	dry	dry	dry	dry	--
	µg/L	15-Jan-08	100	ND	ND	dry	ND	ND
	µg/L	14-Jul-08	100	ND	dry	ND	dry	ND
	µg/L	19-Jan-09	100	ND	dry	ND	ND	ND
	µg/L	20-Jul-09	100	dry	dry	ND	ND	ND
	µg/L	26-Jan-10	100	ND	ND	ND	ND	ND
	µg/L	06-Jul-10	100	dry	dry	dry	dry	ND
	µg/L	04-Jan-11	100	ND	dry	ND	ND	ND
	µg/L	05-Jul-11	100	ND	dry	dry	dry	ND
	µg/L	10-Jan-12	100	ND	ND	ND	ND	ND
	µg/L	09-Jul-12	100	dry	dry	ND	dry	ND
	µg/L	28-Jan-13	100	ND	ND	ND	ND	ND
Toluene	µg/L	23-Oct-97	--	ND	ND	20	dry	--
NC 2B = 11 µg/L	µg/L	28-Oct-98	5	ND	ND	dry	dry	--
	µg/L	07-Apr-99	5	ND	ND	ND	ND	--
	µg/L	08-Dec-99	5	ND	dry	ND	ND	--
	µg/L	27-Apr-00	5	ND	ND	ND	ND	--
	µg/L	18-Oct-00	5	ND	dry	ND	dry	--
	µg/L	18-Apr-01	5	ND	ND	ND	ND	--
	µg/L	24-Oct-01	5	ND	ND	ND	ND	--
	µg/L	23-Apr-02	5	ND	ND	ND	ND	--
	µg/L	23-Oct-02	5	ND	ND	ND	ND	--
	µg/L	01-Apr-03	5	ND	ND	ND	ND	--
	µg/L	27-Oct-03	5	ND	ND	ND	dry	--
	µg/L	27-Apr-04	5	ND	ND	ND	ND	--
	µg/L	26-Oct-04	5	ND	ND	ND	ND	--
	µg/L	15-Mar-05	5	ND	ND	ND	ND	ND
	µg/L	12-Jul-05	5	ND	ND	ND	ND	ND
	µg/L	19-Jan-06	5	ND	ND	ND	ND	ND
	µg/L	12-Jul-06	5	ND	ND	ND	ND	ND
	µg/L	17-Jan-07	5	ND	ND	ND	ND	ND
	µg/L	09-Jul-07	--	dry	dry	dry	dry	--
	µg/L	15-Jan-08	1	ND	ND	dry	ND	ND
	µg/L	14-Jul-08	1	ND	dry	ND	dry	ND
	µg/L	19-Jan-09	1	ND	dry	ND	ND	ND
	µg/L	20-Jul-09	1	dry	dry	ND	ND	0.44 J
	µg/L	26-Jan-10	1	ND	ND	ND	ND	ND
	µg/L	06-Jul-10	1	dry	dry	dry	dry	ND
	µg/L	04-Jan-11	1	ND	dry	ND	ND	ND
	µg/L	05-Jul-11	1	ND	dry	dry	dry	ND
	µg/L	10-Jan-12	1	ND	ND	0.5 J	ND	ND
	µg/L	09-Jul-12	1	dry	dry	ND	dry	ND
	µg/L	28-Jan-13	1	ND	ND	ND	ND	ND

TABLE 6
Summary of Historical Surface Water Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Upstream	Downstream			Blanks
				SW-1	SW-2	SW-3	SW-4	
Xylenes (total)	µg/L	23-Oct-97	--	ND	ND	10	dry	--
NC 2B = 670 µg/L	µg/L	28-Oct-98	5	ND	ND	dry	dry	--
	µg/L	07-Apr-99	5	ND	ND	ND	ND	--
	µg/L	08-Dec-99	5	ND	dry	ND	ND	--
	µg/L	27-Apr-00	5	ND	ND	ND	ND	--
	µg/L	18-Oct-00	5	ND	dry	ND	dry	--
	µg/L	18-Apr-01	5	ND	ND	ND	ND	--
	µg/L	24-Oct-01	5	ND	ND	ND	ND	--
	µg/L	23-Apr-02	5	ND	ND	ND	ND	--
	µg/L	23-Oct-02	5	ND	ND	ND	ND	--
	µg/L	01-Apr-03	5	ND	ND	ND	ND	--
	µg/L	27-Oct-03	5	ND	ND	ND	dry	--
	µg/L	27-Apr-04	5	ND	ND	ND	ND	--
	µg/L	26-Oct-04	5	ND	ND	ND	ND	--
	µg/L	15-Mar-05	5	ND	ND	ND	ND	ND
	µg/L	12-Jul-05	5	ND	ND	ND	ND	ND
	µg/L	19-Jan-06	5	ND	ND	ND	ND	ND
	µg/L	12-Jul-06	5	ND	ND	ND	ND	ND
	µg/L	17-Jan-07	5	ND	ND	ND	ND	ND
	µg/L	09-Jul-07	--	dry	dry	dry	dry	--
	µg/L	15-Jan-08	5	ND	ND	dry	ND	ND
	µg/L	14-Jul-08	5	ND	dry	ND	dry	ND
	µg/L	19-Jan-09	5	ND	dry	ND	ND	ND
	µg/L	20-Jul-09	5	dry	dry	ND	ND	ND
	µg/L	26-Jan-10	5	ND	ND	ND	ND	ND
	µg/L	06-Jul-10	5	dry	dry	dry	dry	ND
	µg/L	04-Jan-11	5	ND	dry	ND	ND	ND
	µg/L	05-Jul-11	5	ND	dry	dry	dry	ND
	µg/L	10-Jan-12	5	ND	ND	ND	ND	ND
	µg/L	09-Jul-12	5	dry	dry	ND	dry	ND
	µg/L	28-Jan-13	5	ND	ND	ND	ND	ND
pH (Field)	S.U.	28-Oct-98	--	7.05	5.47	dry	dry	--
	S.U.	07-Apr-99	--	5.26	7.18	6.22	6.74	--
	S.U.	08-Dec-99	--	5.04	dry	5.56	5.24	--
	S.U.	27-Apr-00	--	5.15	6.47	6.02	5.8	--
	S.U.	18-Oct-00	--	8.28	dry	6.07	dry	--
	S.U.	18-Apr-01	--	5.67	7.75	5.96	6.29	--
	S.U.	24-Oct-01	--	6.64	6.27	6.39	6.02	--
	S.U.	23-Apr-02	--	5.7	6.07	8.16	7.71	--
	S.U.	23-Oct-02	--	4.03	6.31	4.78	5.19	--
	S.U.	01-Apr-03	--	4.67	8.23	5.8	5.73	--
	S.U.	27-Oct-03	--	4.57	5.2	5.55	dry	--
	S.U.	27-Apr-04	--	4.88	6.12	5.77	6.62	--
	S.U.	26-Oct-04	--	5.82	6.04	5.62	5.57	--
	S.U.	15-Mar-05	--	4.51	5.96	5.63	5.67	--
	S.U.	13-Jul-05	--	5.55	6.18	5.83	5.38	--
	S.U.	19-Jan-06	--	3.54	7.25	5.49	4.51	--
	S.U.	12-Jul-06	--	7.1	6.07	5.88	5.65	--
	S.U.	17-Jan-07	--	4.57	4.2	5.36	5.26	--
	S.U.	09-Jul-07	--	dry	dry	dry	dry	--
	S.U.	15-Jan-08	--	5.63	5.42	dry	5.56	--
	S.U.	14-Jul-08	--	6.17	dry	6.05	dry	--
	S.U.	19-Jan-09	--	5.46	dry	4.38	4.42	--
	S.U.	20-Jul-09	--	dry	dry	5.92	5.31	--
	S.U.	26-Jan-10	--	3.67	6.56	6.49	7.01	--
	S.U.	06-Jul-10	--	dry	dry	dry	dry	--
	S.U.	04-Jan-11	--	4.24	dry	5.51	4.30	--
	S.U.	05-Jul-11	--	7.26	dry	dry	dry	--
	S.U.	10-Jan-12	--	7.30	6.96	7.30	6.72	--
	S.U.	09-Jul-12	--	dry	dry	6.74	dry	--
	S.U.	28-Jan-13	--	5.82	8.63	8.98	7.81	--

TABLE 6
Summary of Historical Surface Water Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Upstream	Downstream			Blanks
				SW-1	SW-2	SW-3	SW-4	
Conductivity (Field)	µS/cm	28-Oct-98	--	50	109	dry	dry	--
	µS/cm	07-Apr-99	--	31.89	88.29	67	55.32	--
	µS/cm	08-Dec-99	--	29	dry	32	24	--
	µS/cm	27-Apr-00	--	26	143	48	31	--
	µS/cm	18-Oct-00	--	72	dry	136	dry	--
	µS/cm	18-Apr-01	--	21	75	48	28	--
	µS/cm	24-Oct-01	--	41	99	72	51	--
	µS/cm	23-Apr-02	--	64	79	80	43	--
	µS/cm	23-Oct-02	--	39	87	50	26	--
	µS/cm	01-Apr-03	--	35	121	42	45	--
	µS/cm	27-Oct-03	--	31	48	50	dry	--
	µS/cm	27-Apr-04	--	58	399	74	72	--
	µS/cm	26-Oct-04	--	62	190	88	40	--
	µS/cm	15-Mar-05	--	32	46	51	38	--
	µS/cm	13-Jul-05	--	64	155	141	76	--
	µS/cm	19-Jan-06	--	31	50	52	43	--
	µS/cm	12-Jul-06	--	50	200	97	101	--
	µS/cm	17-Jan-07	--	14	103	81	51	--
	µS/cm	09-Jul-07	--	dry	dry	dry	dry	--
	µS/cm	15-Jan-08	--	108	353	dry	65	--
	µS/cm	19-Jan-09	--	49	dry	121	72	--
	µS/cm	20-Jul-09	--	dry	dry	149	85	--
	µS/cm	26-Jan-10	--	40	427	87	45	--
	µS/cm	06-Jul-10	--	dry	dry	dry	dry	--
	µS/cm	04-Jan-11	--	34	dry	126	87	--
	µS/cm	05-Jul-11	--	140	dry	dry	dry	--
	µS/cm	10-Jan-12	--	80.7	510	153.0	97.8	--
	µS/cm	09-Jul-12	--	dry	dry	245.3	dry	--
	µS/cm	28-Jan-13	--	136.3	567.4	191.5	85.8	--
Temperature (Field)	°C	28-Oct-98	--	13	20.3	dry	dry	--
	°C	07-Apr-99	--	18.1	25.1	29.3	23.9	--
	°C	08-Dec-99	--	8.5	dry	11.5	10.6	--
	°C	27-Apr-00	--	13.1	14	13.6	12.6	--
	°C	18-Oct-00	--	18.1	dry	20.1	dry	--
	°C	18-Apr-01	--	9.2	7.3	8	9.1	--
	°C	24-Oct-01	--	19.3	23.8	25.9	24.9	--
	°C	23-Apr-02	--	18.7	16.3	26.2	25.4	--
	°C	23-Oct-02	--	13.5	12.2	12	12	--
	°C	01-Apr-03	--	15.4	21.6	26	24.2	--
	°C	27-Oct-03	--	18.6	20.1	20.8	dry	--
	°C	27-Apr-04	--	16.7	21.9	20.6	22.9	--
	°C	26-Oct-04	--	15.6	17.4	18.1	17.6	--
	°C	15-Mar-05	--	12.09	14.65	15.57	10.8	--
	°C	13-Jul-05	--	25.58	25.31	26.4	24.82	--
	°C	19-Jan-06	--	8.41	6.76	9.79	9.97	--
	°C	12-Jul-06	--	24.5	29.7	27.4	25.5	--
	°C	17-Jan-07	--	11.7	11.8	11.7	11.7	--
	°C	09-Jul-07	--	dry	dry	dry	dry	--
	°C	17-Jul-08	--	23.97	dry	27.12	dry	--
	°C	19-Jan-09	--	5.40	dry	2.95	3.76	--
	°C	20-Jul-09	--	dry	dry	24.00	21.65	--
	°C	26-Jan-10	--	8.51	8.97	11.07	8.78	--
	°C	06-Jul-10	--	dry	dry	dry	dry	--
	°C	04-Jan-11	--	4.82	dry	6.06	6.16	--
	°C	05-Jul-11	--	24.60	dry	dry	dry	--
	°C	10-Jan-12	--	8.9	9.2	8.0	8.7	--
	°C	09-Jul-12	--	dry	dry	29.1	dry	--
	°C	28-Jan-13	--	5.4	5.0	2.0	4.7	--

TABLE 6
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East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Upstream	Downstream			Blanks
				SW-1	SW-2	SW-3	SW-4	
Turbidity (Field)	NTU	28-Oct-98	--	93	99	dry	dry	--
	NTU	07-Apr-99	--	4.37	16	58	20	--
	NTU	08-Dec-99	--	13	dry	50	143	--
	NTU	27-Apr-00	--	25	202	148	80	--
	NTU	18-Oct-00	--	20	dry	58	dry	--
	NTU	18-Apr-01	--	16.1	183	23	192	--
	NTU	24-Oct-01	--	38	44	78	94	--
	NTU	23-Apr-02	--	20	38	34	9.28	--
	NTU	23-Oct-02	--	23	292	75	179	--
	NTU	01-Apr-03	--	3.01	75	16	153	--
	NTU	27-Oct-03	--	37	780	2.33	dry	--
	NTU	27-Apr-04	--	18	750	16	11	--
	NTU	26-Oct-04	--	73	74	37	79	--
	NTU	15-Mar-05	--	24.8	64.3	41.7	274	--
	NTU	13-Jul-05	--	141	401	150	546	--
	NTU	19-Jan-06	--	62.5	33.2	0	242	--
	NTU	12-Jul-06	--	16.1	116	17.8	71.3	--
	NTU	17-Jan-07	--	1.5	32.8	28	121	--
	NTU	15-Jan-08	--	177	182	dry	205	--
	NTU	17-Jul-08	--	264	dry	13.3	dry	--
	NTU	19-Jan-09	--	2.89	dry	24.7	111	--
	NTU	20-Jul-09	--	dry	dry	25.4	465	--
	NTU	26-Jan-10	--	7.07	297	65.1	308	--
	NTU	06-Jul-10	--	dry	dry	dry	dry	--
	NTU	04-Jan-11	--	1.53	dry	12.9	40.4	--
	NTU	05-Jul-11	--	185	dry	dry	dry	--
	NTU	10-Jan-12	--	13.21	28.7	10.23	53.3	--
	NTU	09-Jul-12	--	dry	dry	8.07	dry	--
	NTU	28-Jan-13	--	27.9	32.4	21.2	116	--
Oxidation Reduction Potential (Field)	mV	15-Mar-05	--	345	139	160	152	--
	mV	13-Jul-05	--	148	22	73	32	--
	mV	19-Jan-06	--	338	107	122	186	--
	mV	12-Jul-06	--	196	203	193	196	--
	mV	09-Jul-07	--	dry	dry	dry	dry	--
	mV	15-Jan-08	--	186	163	dry	218	--
	mV	17-Jul-08	--	160	dry	79	dry	--
	mV	19-Jan-09	--	360.3	dry	196.3	131.0	--
	mV	20-Jul-09	--	dry	dry	129.9	234.3	--
	mV	26-Jan-10	--	322.8	203.4	203.6	205.7	--
	mV	06-Jul-10	--	dry	dry	dry	dry	--
	mV	04-Jan-11	--	211.1	dry	288.5	281.2	--
	mV	05-Jul-11	--	63.8	dry	dry	dry	--
	mV	10-Jan-12	--	--	--	--	--	--
	mV	09-Jul-12	--	dry	dry	108.5	dry	--
	mV	28-Jan-13	--	141.8	46.2	59.6	136.8	--

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East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Upstream	Downstream			Blanks
				SW-1	SW-2	SW-3	SW-4	
Dissolved Oxygen	mg/L	15-Mar-05	--	6.86	6.92	6.11	7.4	--
(Field)	mg/L	13-Jul-05	--	5.04	7.5	8.08	5.75	--
	mg/L	19-Jan-06	--	5.14	5.86	5.15	6.32	--
	mg/L	17-Jan-07	--	5.4	5.4	4.7	6.2	--
	mg/L	09-Jul-07	--	dry	dry	dry	dry	--
	mg/L	15-Jan-08	--	11.27	5.95	dry	13.53	--
	mg/L	17-Jul-08	--	8.0	dry	5.79	dry	--
	mg/L	19-Jan-09	--	10.01	dry	13.13	12.74	--
	mg/L	20-Jul-09	--	dry	dry	6.44	7.11	--
	mg/L	26-Jan-10	--	8.74	10.77	9.52	10.49	--
	mg/L	06-Jul-10	--	dry	dry	dry	dry	--
	mg/L	04-Jan-11	--	8.08	dry	10.95	10.59	--
	mg/L	05-Jul-11	--	3.16	dry	dry	dry	--
	mg/L	10-Jan-12	--	--	--	--	--	--
	mg/L	09-Jul-12	--	dry	dry	6.69	dry	--
	mg/L	28-Jan-13	--	7.35	10.23	11.89	9.52	--

Notes:
1. mg/L = milligrams per liter
2. µg/L = micrograms per liter
3. S.U. = Standard Units
4. NTU = Nephelometric Turbidity Units
5. ND = Not detected at the stated reporting limit
6. µS/cm = microsiemens per centimeter
7. mV = Millivolts
8. J = Estimated Value
9. B = Blank-Qualified Value
10. -- = no data
11. Blanks = field, trip and method blanks
12. Shaded = Concentrations above the SW Standards have been shaded
13. NC 2B = NC Freshwater Aquatic Life Standards as defined in 15A NCAC 2B.
14. SWS Reporting Limit = NCPQL prior to 2007 and NCSWSL starting in 01/18/07
15. * = EPA National Criteria Standard
16. All data prior to 2012 taken from previous report by Golder Associates NC, Inc.

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate		Blanks
Antimony	µg/L	13-Jul-05	30	ND		ND
	µg/L	20-Jan-06	30	ND		ND
	µg/L	12-Jul-06	30	ND		ND
	µg/L	18-Jan-07	6	5.08		ND
	µg/L	10-Jul-07	6	3.07	J	ND
	µg/L	15-Jan-08	6	9.02		ND
	µg/L	15-Jul-08	6	4.20	J	ND
	µg/L	20-Jan-09	6	4.21	J	ND
	µg/L	21-Jul-09	6	4.05	J	ND
	µg/L	26-Jan-10	6	5.00	J	ND
	µg/L	07-Jul-10	6	12.4	J	ND
	µg/L	05-Jan-11	6	20.0		ND
	µg/L	06-Jul-11	6	14.1	J	ND
	µg/L	10-Jan-12	6	16.0		ND
	µg/L	09-Jul-12	6	12.0		ND
	µg/L	29-Jan-13	6	31.1		ND

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate		Blanks	
Arsenic	µg/L	07-Apr-99	10	ND		--	
	µg/L	08-Dec-99	10	10.0		--	
	µg/L	27-Apr-00	10	10.0		--	
	µg/L	18-Oct-00	10	--		--	
	µg/L	28-Nov-00	10	--		--	
	µg/L	03-Jan-01	10	--		--	
	µg/L	08-Feb-01	10	--		--	
	µg/L	19-Apr-01	10	--		--	
	µg/L	24-Dec-01	10	--		--	
	µg/L	23-Apr-02	10	--		--	
	µg/L	23-Oct-02	10	--		--	
	µg/L	01-Apr-03	10	--		--	
	µg/L	02-Sep-03	10	--		--	
	µg/L	28-Oct-03	10	--		--	
	µg/L	27-Apr-04	10	--		--	
	µg/L	26-Oct-04	10	--		--	
	µg/L	15-Mar-05	10	21.0		ND	
	µg/L	13-Jul-05	10	34		ND	
	µg/L	20-Jan-06	10	24.0		ND	
	µg/L	12-Jul-06	10	18.4		ND	
	µg/L	18-Jan-07	10	ND		ND	
	µg/L	10-Jul-07	10	ND		ND	
	µg/L	15-Jan-08	10	21.8		ND	
	µg/L	15-Jul-08	10	26.2		ND	
	µg/L	20-Jan-09	10	5.7	B	3.6	J
	µg/L	21-Jul-09	10	43.4		ND	
	µg/L	26-Jan-10	10	38.6		--	
	µg/L	07-Jul-10	10	92.6		ND	
	µg/L	05-Jan-11	10	72.7		ND	
	µg/L	06-Jul-11	10	146		ND	
	µg/L	10-Jan-12	10	107		ND	
	µg/L	09-Jul-12	10	109		ND	
	µg/L	29-Jan-13	10	192		ND	

TABLE 7
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Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate	Blanks
Barium	µg/L	07-Apr-99	500	ND	--
	µg/L	08-Dec-99	500	ND	--
	µg/L	27-Apr-00	500	ND	--
	µg/L	18-Oct-00	500	--	--
	µg/L	28-Nov-00	500	--	--
	µg/L	03-Jan-01	500	--	--
	µg/L	08-Feb-01	500	--	--
	µg/L	19-Apr-01	500	--	--
	µg/L	24-Dec-01	500	--	--
	µg/L	23-Apr-02	500	--	--
	µg/L	23-Oct-02	500	--	--
	µg/L	01-Apr-03	500	--	--
	µg/L	02-Sep-03	500	--	--
	µg/L	28-Oct-03	500	--	--
	µg/L	27-Apr-04	500	--	--
	µg/L	26-Oct-04	500	--	--
	µg/L	15-Mar-05	500	630	ND
	µg/L	13-Jul-05	500	510	ND
	µg/L	20-Jan-06	500	883	ND
	µg/L	12-Jul-06	500	678	ND
	µg/L	18-Jan-07	100	624	ND
	µg/L	10-Jul-07	100	547	ND
	µg/L	15-Jan-08	100	645	0.3 J
	µg/L	15-Jul-08	100	303	ND
	µg/L	20-Jan-09	100	347	ND
	µg/L	21-Jul-09	100	100	ND
	µg/L	26-Jan-10	100	273	ND
	µg/L	07-Jul-10	100	392	ND
	µg/L	05-Jan-11	100	426	ND
	µg/L	06-Jul-11	100	496	ND
	µg/L	10-Jan-12	100	374	0.24 J
	µg/L	09-Jul-12	100	449	0.75 J
	µg/L	29-Jan-13	100	394	ND
Beryllium	µg/L	10-Jan-12	1	0.10 J	ND
	µg/L	09-Jul-12	1	0.60 J	ND
	µg/L	29-Jan-13	1	ND	ND

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate		Blanks	
Cadmium	µg/L	13-Jul-05	1	ND		ND	
	µg/L	20-Jan-06	1	ND		ND	
	µg/L	12-Jul-06	1	ND		ND	
	µg/L	18-Jan-07	1	ND		ND	
	µg/L	10-Jul-07	1	ND		ND	
	µg/L	15-Jan-08	1	ND		ND	
	µg/L	15-Jul-08	1	ND		ND	
	µg/L	20-Jan-09	1	ND		ND	
	µg/L	21-Jul-09	1	0.126	J	ND	
	µg/L	26-Jan-10	1	0.347	B	0.226	J
	µg/L	07-Jul-10	1	ND		ND	
	µg/L	05-Jan-11	1	ND		ND	
	µg/L	06-Jul-11	1	ND		ND	
	µg/L	10-Jan-12	1	ND		ND	
	µg/L	09-Jul-12	1	0.34	J	ND	
	µg/L	29-Jan-13	1	0.17	J	ND	
Chromium	µg/L	13-Jul-05	10	ND		ND	
	µg/L	20-Jan-06	10	ND		ND	
	µg/L	12-Jul-06	10	ND		ND	
	µg/L	18-Jan-07	10	ND		ND	
	µg/L	10-Jul-07	10	ND		ND	
	µg/L	15-Jan-08	10	ND		ND	
	µg/L	15-Jul-08	10	ND		ND	
	µg/L	20-Jan-09	10	ND		ND	
	µg/L	21-Jul-09	10	57.7		ND	
	µg/L	26-Jan-10	10	40.8		ND	
	µg/L	07-Jul-10	10	70.5		ND	
	µg/L	05-Jan-11	10	59.7		ND	
	µg/L	06-Jul-11	10	108		ND	
	µg/L	10-Jan-12	10	92.7		ND	
	µg/L	09-Jul-12	10	168.0		ND	
	µg/L	29-Jan-13	10	121.0		1.38	J

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate	Blanks	
Cobalt	µg/L	07-Apr-99	10	10.0	--	
	µg/L	08-Dec-99	10	60.0	--	
	µg/L	27-Apr-00	10	10.0	--	
	µg/L	18-Oct-00	10	--	--	
	µg/L	28-Nov-00	10	--	--	
	µg/L	03-Jan-01	10	--	--	
	µg/L	08-Feb-01	10	--	--	
	µg/L	19-Apr-01	10	--	--	
	µg/L	24-Dec-01	10	--	--	
	µg/L	23-Apr-02	10	--	--	
	µg/L	23-Oct-02	10	--	--	
	µg/L	01-Apr-03	10	--	--	
	µg/L	02-Sep-03	10	--	--	
	µg/L	28-Oct-03	10	--	--	
	µg/L	27-Apr-04	10	--	--	
	µg/L	26-Oct-04	10	--	--	
	µg/L	15-Mar-05	10	43.0	ND	
	µg/L	13-Jul-05	10	40	ND	
	µg/L	20-Jan-06	10	60.0	ND	
	µg/L	12-Jul-06	10	63.5	ND	
	µg/L	18-Jan-07	10	16.1	ND	
	µg/L	10-Jul-07	10	18.3	ND	
	µg/L	15-Jan-08	10	23.0	ND	
	µg/L	15-Jul-08	10	17.1	ND	
	µg/L	20-Jan-09	10	13.3	1.1	J
	µg/L	21-Jul-09	10	19.9	ND	
	µg/L	26-Jan-10	10	14.8	0.468	J
	µg/L	07-Jul-10	10	20.2	ND	
	µg/L	05-Jan-11	10	19.8	ND	
	µg/L	06-Jul-11	10	24.7	ND	
	µg/L	10-Jan-12	10	23.0	ND	
	µg/L	09-Jul-12	10	24.6	ND	
	µg/L	29-Jan-13	10	21.0	ND	

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate		Blanks	
Copper	µg/L	13-Jul-05	200	ND		ND	
	µg/L	20-Jan-06	200	ND		ND	
	µg/L	12-Jul-06	200	ND		ND	
	µg/L	18-Jan-07	10	ND		ND	
	µg/L	10-Jul-07	10	ND		ND	
	µg/L	15-Jan-08	10	ND		ND	
	µg/L	15-Jul-08	10	8.20	J	ND	
	µg/L	20-Jan-09	10	ND		ND	
	µg/L	21-Jul-09	10	ND		1.25	J
	µg/L	26-Jan-10	10	ND		ND	
	µg/L	07-Jul-10	10	ND		ND	
	µg/L	05-Jan-11	10	2.57	J	ND	
	µg/L	06-Jul-11	10	ND		ND	
	µg/L	10-Jan-12	10	11.6		0.66	J
	µg/L	09-Jul-12	10	53.7		ND	
	µg/L	29-Jan-13	10	17.3		0.26	J

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate		Blanks	
Lead	µg/L	18-Oct-00	10	--		--	
	µg/L	28-Nov-00	10	--		--	
	µg/L	03-Jan-01	10	--		--	
	µg/L	08-Feb-01	10	--		--	
	µg/L	19-Apr-01	10	--		--	
	µg/L	24-Dec-01	10	--		--	
	µg/L	23-Apr-02	10	--		--	
	µg/L	23-Oct-02	10	--		--	
	µg/L	01-Apr-03	10	--		--	
	µg/L	02-Sep-03	10	--		--	
	µg/L	28-Oct-03	10	--		--	
	µg/L	27-Apr-04	10	--		--	
	µg/L	13-Jul-05	10	ND		ND	
	µg/L	20-Jan-06	10	ND		ND	
	µg/L	15-Mar-06	10	ND		ND	
	µg/L	12-Jul-06	10	13.0		ND	
	µg/L	26-Oct-06	10	--		--	
	µg/L	18-Jan-07	10	ND		ND	
	µg/L	10-Jul-07	10	ND		ND	
	µg/L	15-Jan-08	10	ND		ND	
	µg/L	15-Jul-08	10	2.3	J	ND	
	µg/L	20-Jan-09	10	ND		2.0	J
	µg/L	21-Jul-09	10	5.28	B	2.16	J
	µg/L	26-Jan-10	10	5.68	B	1.84	J
	µg/L	07-Jul-10	10	3.84	J	ND	
	µg/L	05-Jan-11	10	ND		ND	
	µg/L	06-Jul-11	10	ND		ND	
	µg/L	10-Jan-12	10	2.75	B	0.94	J
	µg/L	09-Jul-12	10	45.2		ND	
	µg/L	29-Jan-13	10	3.38	J	ND	

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate	Blanks
Nickel	µg/L	07-Apr-99	50	ND	--
	µg/L	08-Dec-99	50	30.0	--
	µg/L	27-Apr-00	50	50.0	--
	µg/L	18-Oct-00	50	--	--
	µg/L	28-Nov-00	50	--	--
	µg/L	03-Jan-01	50	--	--
	µg/L	08-Feb-01	50	--	--
	µg/L	19-Apr-01	50	--	--
	µg/L	24-Dec-01	50	--	--
	µg/L	23-Apr-02	50	--	--
	µg/L	23-Oct-02	50	--	--
	µg/L	01-Apr-03	50	--	--
	µg/L	02-Sep-03	50	--	--
	µg/L	28-Oct-03	50	--	--
	µg/L	27-Apr-04	50	--	--
	µg/L	26-Oct-04	50	--	--
	µg/L	15-Mar-05	50	85.0	ND
	µg/L	13-Jul-05	50	86	ND
	µg/L	20-Jan-06	50	74.0	ND
	µg/L	12-Jul-06	50	ND	ND
	µg/L	18-Jan-07	50	72.2	ND
	µg/L	10-Jul-07	50	75.8	ND
	µg/L	15-Jan-08	50	91.6	ND
	µg/L	15-Jul-08	50	55.6	ND
	µg/L	20-Jan-09	50	41.1 J	ND
	µg/L	21-Jul-09	50	84.2	ND
	µg/L	26-Jan-10	50	61.1	ND
	µg/L	07-Jul-10	50	89.0	ND
	µg/L	05-Jan-11	50	86.3	ND
	µg/L	06-Jul-11	50	95.0	ND
	µg/L	10-Jan-12	50	92.0	ND
	µg/L	09-Jul-12	50	114.0	ND
	µg/L	29-Jan-13	50	95.0	ND

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate		Blanks	
Selenium	µg/L	13-Jul-05	20	ND		ND	
	µg/L	20-Jan-06	20	ND		ND	
	µg/L	12-Jul-06	20	ND		ND	
	µg/L	18-Jan-07	10	ND		ND	
	µg/L	10-Jul-07	10	ND		ND	
	µg/L	15-Jan-08	10	3.2	J	ND	
	µg/L	15-Jul-08	10	ND		ND	
	µg/L	20-Jan-09	10	ND		ND	
	µg/L	21-Jul-09	10	5.82	B	3.58	J
	µg/L	26-Jan-10	10	ND		ND	
	µg/L	07-Jul-10	10	ND		ND	
	µg/L	05-Jan-11	10	ND		ND	
	µg/L	06-Jul-11	10	ND		ND	
	µg/L	10-Jan-12	10	ND		ND	
	µg/L	09-Jul-12	10	4.32		ND	
	µg/L	29-Jan-13	10	1.41	J	ND	
Silver	µg/L	13-Jul-05	10	ND		ND	
	µg/L	20-Jan-06	10	ND		ND	
	µg/L	12-Jul-06	10	ND		ND	
	µg/L	18-Jan-07	10	ND		ND	
	µg/L	10-Jul-07	10	ND		ND	
	µg/L	15-Jan-08	10	ND		ND	
	µg/L	15-Jul-08	10	ND		ND	
	µg/L	20-Jan-09	10	ND		ND	
	µg/L	21-Jul-09	10	1.69	J	ND	
	µg/L	26-Jan-10	10	2.33	B	1.36	J
	µg/L	07-Jul-10	10	ND		ND	
	µg/L	05-Jan-11	10	ND		ND	
	µg/L	05-Jan-11	10	ND		ND	
	µg/L	06-Jul-11	10	ND		ND	
	µg/L	10-Jan-12	10	0.20	J	ND	
	µg/L	09-Jul-12	10	0.47		ND	
	µg/L	29-Jan-13	10	0.29	J	ND	

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate		Blanks
Thallium	µg/L	18-Oct-00	10	--		--
	µg/L	28-Nov-00	10	--		--
	µg/L	03-Jan-01	10	--		--
	µg/L	08-Feb-01	10	--		--
	µg/L	19-Apr-01	10	--		--
	µg/L	24-Dec-01	10	--		--
	µg/L	23-Apr-02	10	--		--
	µg/L	23-Oct-02	10	--		--
	µg/L	01-Apr-03	10	--		--
	µg/L	02-Sep-03	10	--		--
	µg/L	28-Oct-03	10	--		--
	µg/L	27-Apr-04	10	--		--
	µg/L	13-Jul-05	10	ND		ND
	µg/L	20-Jan-06	10	16.0		ND
	µg/L	15-Mar-06	10	ND		ND
	µg/L	12-Jul-06	10	22.0		ND
	µg/L	26-Oct-06	10	--		--
	µg/L	18-Jan-07	5.5	0.046	J	ND
	µg/L	10-Jul-07	5.5	ND		ND
	µg/L	15-Jan-08	5.5	ND		ND
	µg/L	15-Jul-08	5.5	ND		ND
	µg/L	20-Jan-09	5.5	ND		ND
	µg/L	21-Jul-09	5.5	ND		ND
	µg/L	26-Jan-10	5.5	ND		ND
	µg/L	07-Jul-10	5.5	ND		ND
	µg/L	05-Jan-11	5.5	ND		ND
	µg/L	05-Jan-11	6	ND		ND
	µg/L	06-Jul-11	6	6.28	J	ND
	µg/L	10-Jan-12	5.5	ND		ND
	µg/L	09-Jul-12	5.5	ND		ND
	µg/L	29-Jan-13	5.5	ND		ND

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
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Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate		Blanks	
Vanadium	µg/L	13-Jul-05	40	ND		ND	
	µg/L	20-Jan-06	40	ND		ND	
	µg/L	12-Jul-06	40	ND		ND	
	µg/L	18-Jan-07	25	24.6		ND	
	µg/L	10-Jul-07	25	39.7		ND	
	µg/L	15-Jan-08	25	55.4		ND	
	µg/L	15-Jul-08	25	23.7	J	ND	
	µg/L	20-Jan-09	25	ND		ND	
	µg/L	21-Jul-09	25	638		0.803	J
	µg/L	26-Jan-10	25	102		ND	
	µg/L	07-Jul-10	25	189		ND	
	µg/L	05-Jan-11	25	110		ND	
	µg/L	06-Jul-11	25	87.5		ND	
	µg/L	10-Jan-12	25	127		ND	
	µg/L	09-Jul-12	25	199		ND	
	µg/L	29-Jan-13	125	130		2.68	J

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
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Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate	Blanks
Zinc	µg/L	07-Apr-99	50	50	--
	µg/L	08-Dec-99	50	160	--
	µg/L	27-Apr-00	50	30	--
	µg/L	18-Oct-00	50	--	--
	µg/L	28-Nov-00	50	--	--
	µg/L	03-Jan-01	50	--	--
	µg/L	08-Feb-01	50	--	--
	µg/L	19-Apr-01	50	--	--
	µg/L	24-Dec-01	50	--	--
	µg/L	23-Apr-02	50	--	--
	µg/L	23-Oct-02	50	--	--
	µg/L	01-Apr-03	50	--	--
	µg/L	02-Sep-03	50	--	--
	µg/L	28-Oct-03	50	--	--
	µg/L	27-Apr-04	50	--	--
	µg/L	26-Oct-04	50	--	--
	µg/L	15-Mar-05	50	120	ND
	µg/L	13-Jul-05	50	100	ND
	µg/L	20-Jan-06	50	63.0	ND
	µg/L	12-Jul-06	50	99.6	ND
	µg/L	18-Jan-07	10	22.1	4.8 J
	µg/L	10-Jul-07	10	37.5	ND
	µg/L	15-Jan-08	10	15.2	1.3 J
	µg/L	15-Jul-08	10	80.9	5.0 J
	µg/L	20-Jan-09	10	17.7	ND
	µg/L	21-Jul-09	10	21.0	ND
	µg/L	26-Jan-10	10	14.5	ND
	µg/L	07-Jul-10	10	64.2	ND
	µg/L	05-Jan-11	10	34.9	ND
	µg/L	06-Jul-11	10	41.6	ND
	µg/L	10-Jan-12	10	62.4 B	ND
	µg/L	09-Jul-12	10	183.0	0.3 J
	µg/L	29-Jan-13	10	39.9	0.57 J

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate		Blanks
Acetone	µg/L	07-Apr-99	100	830		--
	µg/L	08-Dec-99	100	4,300		--
	µg/L	27-Apr-00	100	2,000		--
	µg/L	18-Oct-00	100	--		--
	µg/L	28-Nov-00	100	--		--
	µg/L	03-Jan-01	100	--		--
	µg/L	08-Feb-01	100	--		--
	µg/L	19-Apr-01	100	--		--
	µg/L	24-Dec-01	100	--		--
	µg/L	23-Apr-02	100	--		--
	µg/L	23-Oct-02	100	--		--
	µg/L	01-Apr-03	100	--		--
	µg/L	02-Sep-03	100	--		--
	µg/L	28-Oct-03	100	--		--
	µg/L	27-Apr-04	100	--		--
	µg/L	26-Oct-04	100	--		--
	µg/L	15-Mar-05	100	28,000		ND
	µg/L	13-Jul-05	100	2000		ND
	µg/L	20-Jan-06	11,000	11,200		ND
	µg/L	12-Jul-06	100	4,810		ND
	µg/L	18-Jan-07	100	13,000		ND
	µg/L	10-Jul-07	100	27	J	ND
	µg/L	15-Jan-08	100	6,700		ND
	µg/L	15-Jul-08	100	980		ND
	µg/L	20-Jan-09	100	4,900		ND
	µg/L	21-Jul-09	100	580		ND
	µg/L	26-Jan-10	100	3,300		ND
	µg/L	07-Jul-10	100	2,800		ND
	µg/L	05-Jan-11	100	3,600		ND
	µg/L	06-Jul-11	100	12,000		ND
	µg/L	10-Jan-12	10,000	16,000	D	ND
	µg/L	09-Jul-12	5,000	11,000		ND
	µg/L	29-Jan-13	10,000	21,000		ND

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate		Blanks
Benzene	µg/L	07-Apr-99	5	ND		--
	µg/L	08-Dec-99	5	5.0		--
	µg/L	27-Apr-00	5	ND		--
	µg/L	18-Oct-00	5	--		--
	µg/L	28-Nov-00	5	--		--
	µg/L	03-Jan-01	5	--		--
	µg/L	08-Feb-01	5	--		--
	µg/L	19-Apr-01	5	--		--
	µg/L	24-Dec-01	5	--		--
	µg/L	23-Apr-02	5	--		--
	µg/L	23-Oct-02	5	--		--
	µg/L	01-Apr-03	5	--		--
	µg/L	02-Sep-03	5	--		--
	µg/L	28-Oct-03	5	--		--
	µg/L	27-Apr-04	5	--		--
	µg/L	26-Oct-04	5	--		--
	µg/L	15-Mar-05	500	ND		ND
	µg/L	13-Jul-05	5	ND		ND
	µg/L	20-Jan-06	550	ND		ND
	µg/L	12-Jul-06	5	ND		ND
	µg/L	18-Jan-07	3	ND		ND
	µg/L	10-Jul-07	1	2.0	J	ND
	µg/L	15-Jan-08	1	ND		ND
	µg/L	15-Jul-08	1	ND		ND
	µg/L	20-Jan-09	1	ND		ND
	µg/L	21-Jul-09	1	ND		ND
	µg/L	26-Jan-10	1	ND		ND
	µg/L	07-Jul-10	1	ND		ND
	µg/L	05-Jan-11	1	ND		ND
	µg/L	06-Jul-11	1	ND		ND
	µg/L	10-Jan-12	1	2.9		ND
	µg/L	09-Jul-12	1	1.0		ND
	µg/L	29-Jan-13	1	2.4		ND
Chlorobenzene	µg/L	10-Jan-12	3	0.8	J	ND
	µg/L	09-Jul-12	3	3.0		ND
	µg/L	29-Jan-13	3	0.8	J	ND
1,2-Dichlorobenzene	µg/L	29-Jan-13	5	0.4	J	ND

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate		Blanks
1,4-Dichlorobenzene	µg/L	07-Apr-99	5	ND		--
	µg/L	08-Dec-99	5	5.0		--
	µg/L	27-Apr-00	5	7.0		--
	µg/L	18-Oct-00	5	--		--
	µg/L	28-Nov-00	5	--		--
	µg/L	03-Jan-01	5	--		--
	µg/L	08-Feb-01	5	--		--
	µg/L	19-Apr-01	5	--		--
	µg/L	24-Dec-01	5	--		--
	µg/L	23-Apr-02	5	--		--
	µg/L	23-Oct-02	5	--		--
	µg/L	01-Apr-03	5	--		--
	µg/L	02-Sep-03	5	--		--
	µg/L	28-Oct-03	5	--		--
	µg/L	27-Apr-04	5	--		--
	µg/L	26-Oct-04	5	--		--
	µg/L	15-Mar-05	500	ND		ND
	µg/L	13-Jul-05	5	ND		ND
	µg/L	20-Jan-06	550	ND		ND
	µg/L	12-Jul-06	5	ND		ND
	µg/L	18-Jan-07	3	ND		ND
	µg/L	10-Jul-07	1	6.6		ND
	µg/L	15-Jan-08	1	ND		ND
	µg/L	15-Jul-08	1	7.2	J	ND
	µg/L	20-Jan-09	1	ND		ND
	µg/L	21-Jul-09	1	ND		ND
	µg/L	26-Jan-10	1	9.4	J	ND
	µg/L	07-Jul-10	1	9.0	J	ND
	µg/L	05-Jan-11	1	ND		ND
	µg/L	06-Jul-11	1	ND		ND
	µg/L	10-Jan-12	1	11		ND
	µg/L	09-Jul-12	1	1.8		ND
	µg/L	29-Jan-13	1	9.6		ND

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate	Blanks
1,1-Dichloroethane	µg/L	07-Apr-99	5	9.0	--
	µg/L	08-Dec-99	5	9.0	--
	µg/L	27-Apr-00	5	ND	--
	µg/L	18-Oct-00	5	--	--
	µg/L	28-Nov-00	5	--	--
	µg/L	03-Jan-01	5	--	--
	µg/L	08-Feb-01	5	--	--
	µg/L	19-Apr-01	5	--	--
	µg/L	24-Dec-01	5	--	--
	µg/L	23-Apr-02	5	--	--
	µg/L	23-Oct-02	5	--	--
	µg/L	01-Apr-03	5	--	--
	µg/L	02-Sep-03	5	--	--
	µg/L	28-Oct-03	5	--	--
	µg/L	27-Apr-04	5	--	--
	µg/L	26-Oct-04	5	--	--
	µg/L	15-Mar-05	500	ND	ND
	µg/L	13-Jul-05	5	ND	ND
	µg/L	20-Jan-06	550	ND	ND
	µg/L	12-Jul-06	5	ND	ND
	µg/L	18-Jan-07	5	ND	ND
	µg/L	10-Jul-07	5	ND	ND
	µg/L	15-Jan-08	5	ND	ND
	µg/L	15-Jul-08	5	ND	ND
	µg/L	20-Jan-09	5	ND	ND
	µg/L	21-Jul-09	5	ND	ND
	µg/L	26-Jan-10	5	ND	ND
	µg/L	07-Jul-10	5	ND	ND
	µg/L	05-Jan-11	5	ND	ND
	µg/L	06-Jul-11	5	ND	ND
	µg/L	10-Jan-12	5	ND	ND
	µg/L	09-Jul-12	5	ND	ND
	µg/L	29-Jan-13		ND	ND
1,2-Dichloroethane	µg/L	10-Jan-12	1	1.3	ND
	µg/L	09-Jul-12	1	0.6	ND
	µg/L	29-Jan-13	1	1.7	ND

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate		Blanks
cis-1,2-Dichloroethene	µg/L	10-Jan-12	5	1.3	J	ND
	µg/L	09-Jul-12	5	0.3		ND
	µg/L	29-Jan-13	5	1.4	J	ND
Ethylbenzene	µg/L	07-Apr-99	5	26.0		--
	µg/L	08-Dec-99	5	49.0		--
	µg/L	27-Apr-00	5	35.0		--
	µg/L	18-Oct-00	5	--		--
	µg/L	28-Nov-00	5	--		--
	µg/L	03-Jan-01	5	--		--
	µg/L	08-Feb-01	5	--		--
	µg/L	19-Apr-01	5	--		--
	µg/L	24-Dec-01	5	--		--
	µg/L	23-Apr-02	5	--		--
	µg/L	23-Oct-02	5	--		--
	µg/L	01-Apr-03	5	--		--
	µg/L	02-Sep-03	5	--		--
	µg/L	28-Oct-03	5	--		--
	µg/L	27-Apr-04	5	--		--
	µg/L	26-Oct-04	5	--		--
	µg/L	15-Mar-05	500	ND		ND
	µg/L	13-Jul-05	5	ND		ND
	µg/L	20-Jan-06	550	ND		ND
	µg/L	12-Jul-06	5	ND		ND
	µg/L	18-Jan-07	5	35.0	J	ND
	µg/L	10-Jul-07	1	15.0		ND
	µg/L	15-Jan-08	1	29.0	J	ND
	µg/L	15-Jul-08	1	24.0		ND
	µg/L	20-Jan-09	1	71.0		ND
	µg/L	21-Jul-09	1	4.0	J	ND
	µg/L	26-Jan-10	1	16.0	J	ND
	µg/L	07-Jul-10	1	12.0	J	ND
	µg/L	05-Jan-11	1	31.0	J	ND
	µg/L	06-Jul-11	1	ND		ND
	µg/L	10-Jan-12	1	25.0		ND
	µg/L	09-Jul-12	1	4.1		ND
	µg/L	29-Jan-13	1	31		ND

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate		Blanks
2-Hexanone	µg/L	13-Jul-05	50	ND		ND
	µg/L	20-Jan-06	5500	ND		ND
	µg/L	12-Jul-06	50	ND		ND
	µg/L	18-Jan-07	50	17.0	J	ND
	µg/L	10-Jul-07	50	ND		ND
	µg/L	15-Jan-08	50	ND		ND
	µg/L	15-Jul-08	50	ND		ND
	µg/L	20-Jan-09	50	ND		ND
	µg/L	21-Jul-09	50	ND		ND
	µg/L	26-Jan-10	50	ND		ND
	µg/L	07-Jul-10	50	ND		ND
	µg/L	05-Jan-11	50	ND		ND
	µg/L	06-Jul-11	50	ND		ND
	µg/L	10-Jan-12	50	27.0	J	ND
	µg/L	09-Jul-12	50	21.0		ND
	µg/L	29-Jan-13	50	41	J	ND

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate		Blanks	
Methylene chloride	µg/L	07-Apr-99	10	68.0		--	
	µg/L	08-Dec-99	10	21.0		--	
	µg/L	27-Apr-00	10	ND		--	
	µg/L	18-Oct-00	10	--		--	
	µg/L	28-Nov-00	10	--		--	
	µg/L	03-Jan-01	10	--		--	
	µg/L	08-Feb-01	10	--		--	
	µg/L	19-Apr-01	10	--		--	
	µg/L	24-Dec-01	10	--		--	
	µg/L	23-Apr-02	10	--		--	
	µg/L	23-Oct-02	10	--		--	
	µg/L	01-Apr-03	10	--		--	
	µg/L	02-Sep-03	10	--		--	
	µg/L	28-Oct-03	10	--		--	
	µg/L	27-Apr-04	10	--		--	
	µg/L	26-Oct-04	10	--		--	
	µg/L	15-Mar-05	1000	ND		ND	
	µg/L	13-Jul-05	10	ND		ND	
	µg/L	20-Jan-06	1100	ND		ND	
	µg/L	12-Jul-06	10	ND		ND	
	µg/L	18-Jan-07	5.5	ND		ND	
	µg/L	10-Jul-07	1	ND		ND	
	µg/L	15-Jan-08	1	ND		ND	
	µg/L	15-Jul-08	1	ND		ND	
	µg/L	20-Jan-09	1	30.0	J	ND	
	µg/L	21-Jul-09	1	ND		ND	
	µg/L	26-Jan-10	1	ND		ND	
	µg/L	07-Jul-10	1	ND		ND	
	µg/L	05-Jan-11	1	ND		ND	
	µg/L	06-Jul-11	1	ND		ND	
	µg/L	10-Jan-12	1	1.4	B	0.8	J
	µg/L	09-Jul-12	1	0.2		ND	
	µg/L	29-Jan-13	1	0.2	J	ND	

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate	Blanks
2-Butanone	µg/L	07-Apr-99	100	660	--
(Methyl Ethyl Ketone)	µg/L	08-Dec-99	100	12,000	--
	µg/L	27-Apr-00	100	4,400	--
	µg/L	18-Oct-00	100	--	--
	µg/L	28-Nov-00	100	--	--
	µg/L	03-Jan-01	100	--	--
	µg/L	08-Feb-01	100	--	--
	µg/L	19-Apr-01	100	--	--
	µg/L	24-Dec-01	100	--	--
	µg/L	23-Apr-02	100	--	--
	µg/L	23-Oct-02	100	--	--
	µg/L	01-Apr-03	100	--	--
	µg/L	02-Sep-03	100	--	--
	µg/L	28-Oct-03	100	--	--
	µg/L	27-Apr-04	100	--	--
	µg/L	26-Oct-04	100	--	--
	µg/L	15-Mar-05	100	34,000	ND
	µg/L	13-Jul-05	100	1800	ND
	µg/L	20-Jan-06	11000	16,600	ND
	µg/L	12-Jul-06	100	7,870	ND
	µg/L	18-Jan-07	100	7,300	ND
	µg/L	10-Jul-07	100	ND	ND
	µg/L	15-Jan-08	100	7,800	ND
	µg/L	15-Jul-08	100	960	ND
	µg/L	20-Jan-09	100	6,500	ND
	µg/L	21-Jul-09	100	660	ND
	µg/L	26-Jan-10	100	3,800	ND
	µg/L	07-Jul-10	100	3,800	ND
	µg/L	05-Jan-11	100	3,900	ND
	µg/L	06-Jul-11	100	12,000	ND
	µg/L	10-Jan-12	20,000	26,000	ND
	µg/L	09-Jul-12	5,000	8,100	ND
	µg/L	29-Jan-13	20,000	47,000	ND

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate		Blanks
4-Methyl-2-pentanone	µg/L	07-Apr-99	100	ND		--
	µg/L	08-Dec-99	100	ND		--
	µg/L	27-Apr-00	100	110		--
	µg/L	18-Oct-00	100	--		--
	µg/L	28-Nov-00	100	--		--
	µg/L	03-Jan-01	100	--		--
	µg/L	08-Feb-01	100	--		--
	µg/L	19-Apr-01	100	--		--
	µg/L	24-Dec-01	100	--		--
	µg/L	23-Apr-02	100	--		--
	µg/L	23-Oct-02	100	--		--
	µg/L	01-Apr-03	100	--		--
	µg/L	02-Sep-03	100	--		--
	µg/L	28-Oct-03	100	--		--
	µg/L	27-Apr-04	100	--		--
	µg/L	26-Oct-04	100	--		--
	µg/L	15-Mar-05	10000	ND		ND
	µg/L	13-Jul-05	100	ND		ND
	µg/L	20-Jan-06	11000	ND		ND
	µg/L	12-Jul-06	100	ND		ND
	µg/L	18-Jan-07	100	95	J	ND
	µg/L	10-Jul-07	100	7.4	J	ND
	µg/L	15-Jan-08	100	ND		ND
	µg/L	15-Jul-08	100	ND		ND
	µg/L	20-Jan-09	100	110	J	ND
	µg/L	21-Jul-09	100	27.0	J	ND
	µg/L	26-Jan-10	100	180		ND
	µg/L	07-Jul-10	100	42.0	J	ND
	µg/L	05-Jan-11	100	66.0	J	ND
	µg/L	06-Jul-11	100	160	J	ND
	µg/L	10-Jan-12	100	220		ND
	µg/L	09-Jul-12	100	140		ND
	µg/L	29-Jan-13	500	680		ND
Styrene	µg/L	29-Jan-13	1	2.4		ND

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate	Blanks
Tetrachloroethene	µg/L	13-Jul-05	5	ND	ND
	µg/L	20-Jan-06	550	ND	ND
	µg/L	12-Jul-06	5	ND	ND
	µg/L	18-Jan-07	3	ND	ND
	µg/L	10-Jul-07	1	ND	0.31 J
	µg/L	15-Jan-08	1	ND	ND
	µg/L	15-Jul-08	1	ND	ND
	µg/L	20-Jan-09	1	ND	ND
	µg/L	21-Jul-09	1	ND	ND
	µg/L	26-Jan-10	1	ND	--
	µg/L	07-Jul-10	1	ND	ND
	µg/L	05-Jan-11	1	ND	ND
	µg/L	06-Jul-11	1	ND	ND
	µg/L	10-Jan-12	1	ND	ND
	µg/L	09-Jul-12	1	ND	ND
	µg/L	29-Jan-13	1	ND	ND

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate		Blanks	
Toluene	µg/L	07-Apr-99	5	100		--	
	µg/L	08-Dec-99	5	150		--	
	µg/L	27-Apr-00	5	120		--	
	µg/L	18-Oct-00	5	--		--	
	µg/L	28-Nov-00	5	--		--	
	µg/L	03-Jan-01	5	--		--	
	µg/L	08-Feb-01	5	--		--	
	µg/L	19-Apr-01	5	--		--	
	µg/L	24-Dec-01	5	--		--	
	µg/L	23-Apr-02	5	--		--	
	µg/L	23-Oct-02	5	--		--	
	µg/L	01-Apr-03	5	--		--	
	µg/L	02-Sep-03	5	--		--	
	µg/L	28-Oct-03	5	--		--	
	µg/L	27-Apr-04	5	--		--	
	µg/L	26-Oct-04	5	--		--	
	µg/L	15-Mar-05	500	ND		ND	
	µg/L	13-Jul-05	5	ND		ND	
	µg/L	20-Jan-06	550	ND		ND	
	µg/L	12-Jul-06	5	255		ND	
	µg/L	18-Jan-07	5	36.0	J	ND	
	µg/L	10-Jul-07	1	9.0		ND	
	µg/L	15-Jan-08	1	35.0	J	ND	
	µg/L	15-Jul-08	1	23.0		ND	
	µg/L	20-Jan-09	1	120		ND	
	µg/L	21-Jul-09	1	ND		0.44	J
	µg/L	26-Jan-10	1	24.0		ND	
	µg/L	07-Jul-10	1	14.0	J	ND	
	µg/L	05-Jan-11	1	26.0	J	ND	
	µg/L	06-Jul-11	1	ND		ND	
	µg/L	10-Jan-12	1	33.0		ND	
	µg/L	09-Jul-12	1	7.1		ND	
	µg/L	29-Jan-13	1	33		ND	

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate		Blanks
Trichloroethene	µg/L	29-Jan-13	1	0.2	J	ND
1,1,2-Trichloroethane	µg/L	10-Jan-12	1	2.0		ND
	µg/L	09-Jul-12	1	ND		ND
	µg/L	29-Jan-13	1	ND		ND
Vinyl Chloride	µg/L	29-Jan-13	1	0.2	J	ND
Xylenes (total)	µg/L	07-Apr-99	5	30.0		--
	µg/L	08-Dec-99	5	62.0		--
	µg/L	27-Apr-00	5	56.0		--
	µg/L	18-Oct-00	5	--		--
	µg/L	28-Nov-00	5	--		--
	µg/L	03-Jan-01	5	--		--
	µg/L	08-Feb-01	5	--		--
	µg/L	19-Apr-01	5	--		--
	µg/L	24-Dec-01	5	--		--
	µg/L	23-Apr-02	5	--		--
	µg/L	23-Oct-02	5	--		--
	µg/L	01-Apr-03	5	--		--
	µg/L	02-Sep-03	5	--		--
	µg/L	28-Oct-03	5	--		--
	µg/L	27-Apr-04	5	--		--
	µg/L	26-Oct-04	5	--		--
	µg/L	15-Mar-05	500	ND		ND
	µg/L	13-Jul-05	5	ND		ND
	µg/L	20-Jan-06	550	ND		ND
	µg/L	12-Jul-06	5	ND		ND
	µg/L	18-Jan-07	--	60.0	J	ND
	µg/L	10-Jul-07	4	22.0		ND
	µg/L	15-Jan-08	5	42.0	J	ND
	µg/L	15-Jul-08	5	39.0		ND
	µg/L	20-Jan-09	5	100		ND
	µg/L	21-Jul-09	5	ND		ND
	µg/L	26-Jan-10	5	31.0		ND
	µg/L	07-Jul-10	5	29.0		ND
	µg/L	05-Jan-11	5	39.0	J	ND
	µg/L	06-Jul-11	5	ND		ND
	µg/L	10-Jan-12	5	51.0		ND
	µg/L	09-Jul-12	5	10.0		ND
	µg/L	29-Jan-13	5	57.0		ND

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate		Blanks
Cyanide (total)	mg/L	20-Jan-06	0.01	ND		ND
	mg/L	12-Jul-06	0.05	ND		ND
	mg/L	18-Jan-07	10	ND		ND
	mg/L	10-Jul-07	10	ND		ND
	mg/L	15-Jan-08	10	ND		ND
	mg/L	15-Jul-08	10	ND		ND
	mg/L	20-Jan-09	10	0.0041	J	ND
	mg/L	21-Jul-09	10	ND		ND
	mg/L	26-Jan-10	10	0.0054	J	ND
	mg/L	07-Jul-10	0.01	ND		ND
	mg/L	05-Jan-11	0.01	0.0059	J	ND
	mg/L	06-Jul-11	0.01	ND		ND
	µg/L	10-Jan-12	20.0	ND		ND
	µg/L	09-Jul-12	10.0	ND		ND
	µg/L	29-Jan-13	10.0	14.0		ND
Oil & Grease	mg/L	20-Jan-06	2	5		ND
	mg/L	12-Jul-06	2	19		ND
	mg/L	18-Jan-07	--	5		ND
	mg/L	10-Jul-07	--	ND		ND
	mg/L	15-Jan-08	--	9.15		ND
	mg/L	15-Jul-08	--	3.00	J	ND
	mg/L	20-Jan-09	--	5.11		ND
	mg/L	21-Jul-09	--	5.29		ND
	mg/L	26-Jan-10	--	ND		ND
	mg/L	07-Jul-10	--	ND		ND
	mg/L	05-Jan-11	--	7.34		ND
	mg/L	06-Jul-11	--	4.82	J	ND
	µg/L	10-Jan-12	5,200	10,000		ND
	µg/L	09-Jul-12	5,700	13,000		ND
	µg/L	29-Jan-13	5,400	6,600		ND

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate		Blanks	
Phenols	mg/L	15-Mar-05	0.05	0.84		ND	
	mg/L	20-Jan-06	0.2	1		ND	
	mg/L	12-Jul-06	0.1	1		ND	
	mg/L	18-Jan-07	--	0.92		ND	
	mg/L	10-Jul-07	--	0.03	J	ND	
	mg/L	15-Jan-08	--	1.1		ND	
	mg/L	15-Jul-08	--	0.20		ND	
	mg/L	20-Jan-09	--	0.53		ND	
	mg/L	21-Jul-09	--	0.23		ND	
	mg/L	26-Jan-10	--	0.43		ND	
	mg/L	07-Jul-10	--	0.56		ND	
	mg/L	05-Jan-11	--	0.95		ND	
	mg/L	06-Jul-11	--	2.60		ND	
	µg/L	10-Jan-12	1,000	5,380		ND	
	µg/L	09-Jul-12	50.0	1,480		ND	
	µg/L	29-Jan-13	100	3,260		ND	
Total Kjeldahl Nitrogen	mg/L	15-Mar-05	0.05	480		ND	
	mg/L	20-Jan-06	1	495		ND	
	mg/L	12-Jul-06	0.05	396		ND	
	mg/L	18-Jan-07	--	440		ND	
	mg/L	10-Jul-07	--	570		ND	
	mg/L	15-Jan-08	--	560		0.088	
	mg/L	15-Jul-08	--	320		ND	
	mg/L	20-Jan-09	--	340		ND	
	mg/L	21-Jul-09	--	550		ND	
	mg/L	26-Jan-10	--	460		ND	
	mg/L	07-Jul-10	--	720		ND	
	mg/L	05-Jan-11	--	720		ND	
	mg/L	06-Jul-11	--	1,000	B	250	J
	µg/L	10-Jan-12	40,000	593,000		ND	
	µg/L	09-Jul-12	40.0	519,000		ND	
	µg/L	29-Jan-13	80.0	840,000		ND	

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate		Blanks	
Nitrate as N	mg/L	13-Jul-05	0.1	ND		ND	
	mg/L	20-Jan-06	0.05	ND		ND	
	mg/L	12-Jul-06	0.05	ND		ND	
	mg/L	10-Jul-07	--	ND		ND	
	mg/L	15-Jan-08	10	0.025	B	0.014	J
	mg/L	15-Jul-08	10	ND		ND	
	mg/L	20-Jan-09	10	0.084	J	ND	
	mg/L	21-Jul-09	10	ND		ND	
	mg/L	26-Jan-10	10	0.052	J	ND	
	mg/L	07-Jul-10	10	0.025	J	ND	
	mg/L	05-Jan-11	10	0.072	J	ND	
	mg/L	06-Jul-11	10	ND		ND	
	µg/L	10-Jan-12	50.0	280		ND	
	µg/L	09-Jul-12	50.0	ND		ND	
	µg/L	29-Jan-13	500.0	ND		ND	
Sulfate	mg/L	13-Jul-05	2	ND		ND	
	mg/L	20-Jan-06	2	ND		ND	
	mg/L	12-Jul-06	2	6.23		ND	
	mg/L	18-Jan-07	--	29.3		2.25	J
	mg/L	10-Jul-07	--	34.0		1.1	
	mg/L	15-Jan-08	250	5.6	J	ND	
	mg/L	15-Jul-08	250	3.8	J	ND	
	mg/L	20-Jan-09	250	2.5	J	ND	
	mg/L	21-Jul-09	250	3.1	J	ND	
	mg/L	26-Jan-10	250	1.6	B	1.1	J
	mg/L	07-Jul-10	250	5.4	J	ND	
	mg/L	05-Jan-11	250	10.0	J	ND	
	mg/L	06-Jul-11	250	4.00	B	1.90	J
	µg/L	10-Jan-12	5,000	2,900	J	ND	
	µg/L	09-Jul-12	5,000	ND		ND	
	µg/L	29-Jan-13	10,000	ND		ND	

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate		Blanks
Biochemical Oxygen Demand	mg/L	15-Mar-05	2	1,300		ND
	mg/L	13-Jul-05	2	220	J	ND
	mg/L	20-Jan-06	2	1,910		ND
	mg/L	12-Jul-06	2	1,770		ND
	mg/L	18-Jan-07	--	593		ND
	mg/L	10-Jul-07	--	97		ND
	mg/L	15-Jan-08	--	620		ND
	mg/L	15-Jul-08	--	110		ND
	mg/L	20-Jan-09	--	630		ND
	mg/L	21-Jul-09	--	130		ND
	mg/L	26-Jan-10	--	130		ND
	mg/L	07-Jul-10	--	420		ND
	mg/L	05-Jan-11	--	460		ND
	mg/L	06-Jul-11	--	890		ND
	µg/L	10-Jan-12	45,000	1,380,000		ND
	µg/L	09-Jul-12	32.0	560		ND
	µg/L	29-Jan-13	65.0	1,820		ND

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate	Blanks
Chemical Oxygen Demand	mg/L	15-Mar-05	10	2,500.00	ND
	mg/L	13-Jul-05	10	1,120.00	ND
	mg/L	20-Jan-06	--	--	--
	mg/L	27-Feb-06	40	1,710.00	ND
	mg/L	12-Jul-06	10	2,990.00	ND
	mg/L	18-Jan-07	--	1,810.00	ND
	mg/L	10-Jul-07	--	980.00	ND
	mg/L	15-Jan-08	--	1,600.00	ND
	mg/L	15-Jul-08	--	950.00	ND
	mg/L	20-Jan-09	--	1,300.00	ND
	mg/L	21-Jul-09	--	990.00	ND
	mg/L	26-Jan-10	--	920.00	ND
	mg/L	07-Jul-10	--	1,700.00	ND
	mg/L	05-Jan-11	--	1,700.00	ND
	mg/L	06-Jul-11	--	2,500.00	ND
	µg/L	10-Jan-12	200,000	4,050,000	ND
	µg/L	09-Jul-12	200	3,050,000	ND
	µg/L	29-Jan-13	200	4,770,000	5830
Total Suspended Solids	mg/L	15-Mar-05	2	140	ND
	mg/L	13-Jul-05	--	--	--
	mg/L	20-Jan-06	--	--	--
	mg/L	12-Jul-06	2	264	ND
	mg/L	18-Jan-07	--	45.0	ND
	mg/L	10-Jul-07	--	21.0	ND
	mg/L	15-Jan-08	--	26.0	ND
	mg/L	15-Jul-08	--	59.0	ND
	mg/L	20-Jan-09	--	85.0	ND
	mg/L	21-Jul-09	--	17.0	ND
	mg/L	26-Jan-10	--	23.0	ND
	mg/L	07-Jul-10	--	67.0	ND
	mg/L	05-Jan-11	--	23.0	ND
	mg/L	06-Jul-11	--	36.0	ND
	µg/L	10-Jan-12	10,000	78,000	ND
	µg/L	09-Jul-12	33	780,000	ND
	µg/L	29-Jan-13	5	46,000	ND

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate		Blanks
Phosphorus (Total)	mg/L	15-Mar-05	0.03	1.8		ND
	mg/L	13-Jul-05	0.03	2.2		ND
	mg/L	20-Jan-06	0.1	2.0		ND
	mg/L	12-Jul-06	0.03	1.0		ND
	mg/L	18-Jan-07	--	1.7		ND
	mg/L	10-Jul-07	--	2.8		ND
	mg/L	15-Jan-08	--	2.6		ND
	mg/L	15-Jul-08	--	1.2		ND
	mg/L	20-Jan-09	--	0.82		ND
	mg/L	21-Jul-09	--	0.69		ND
	mg/L	26-Jan-10	--	1.7		ND
	mg/L	07-Jul-10	--	2.3		ND
	mg/L	05-Jan-11	--	2.1		ND
	mg/L	06-Jul-11	--	2.2		ND
	µg/L	10-Jan-12	200	2,170	D	ND
	µg/L	09-Jul-12	0.20	1,930	D	ND
	µg/L	29-Jan-13	0.22	2,400		ND
Nitrate/Nitrite as N	mg/L	15-Jan-08	--	0.044	J	ND
	mg/L	15-Jul-08	--	0.023	J	ND
	mg/L	20-Jan-09	--	0.084	J	ND
	mg/L	21-Jul-09	--	ND		ND
	mg/L	26-Jan-10	--	0.059	B	0.021
	mg/L	07-Jul-10	--	0.034	J	ND
	mg/L	05-Jan-11	--	0.097	J	ND
	mg/L	06-Jul-11	--	0.041	J	ND
	mg/L	10-Jan-12	50	280		ND
	µg/L	09-Jul-12	50	ND		ND
	µg/L	29-Jan-13	500	ND		ND

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

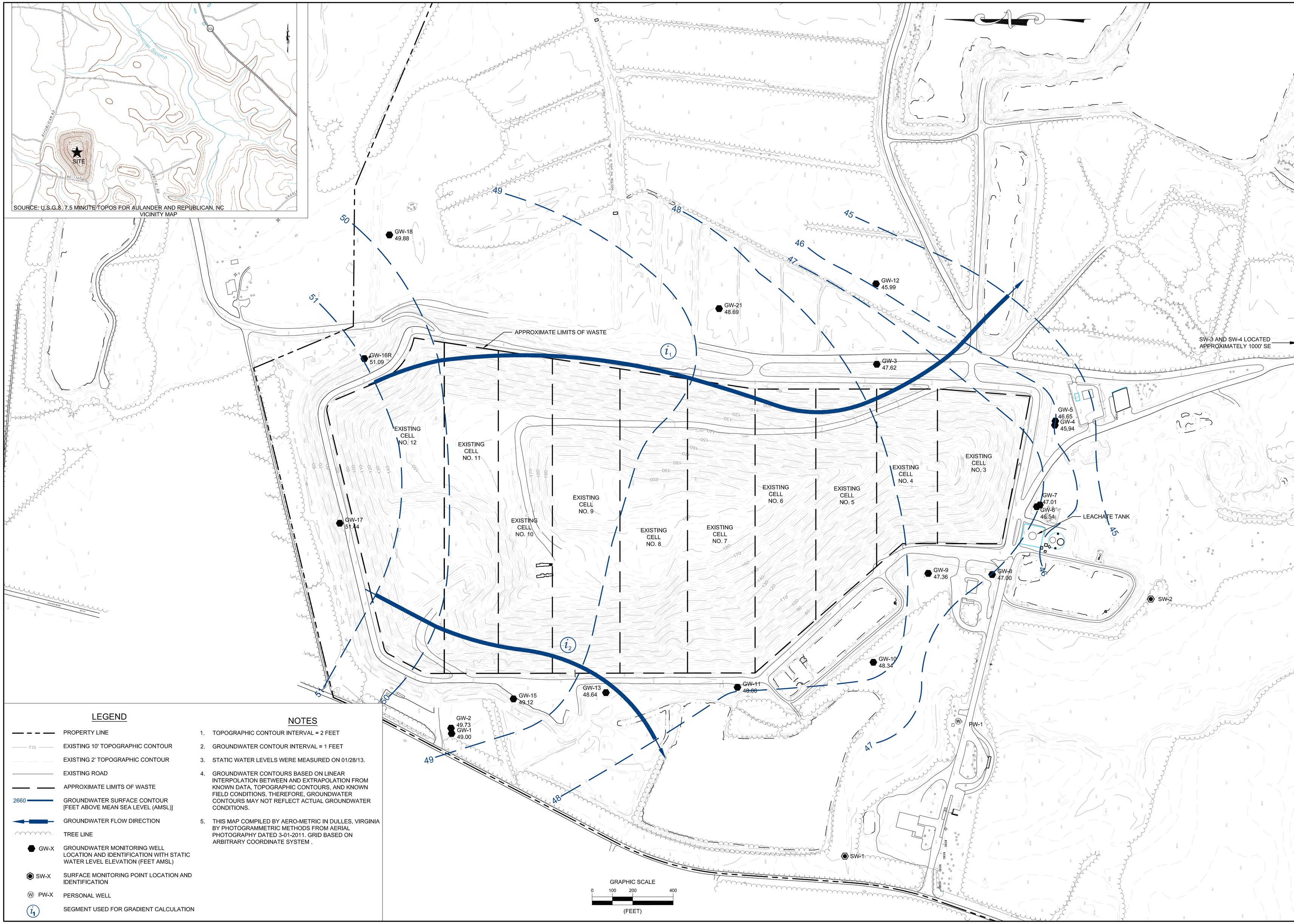
Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate	Blanks
pH (Field)	S.U.	07-Apr-99	--	6.82	--
	S.U.	15-Mar-05	--	6.34	--
	S.U.	13-Jul-05	--	7.36	--
	S.U.	20-Jan-06	--	9.48	--
	S.U.	12-Jul-06	--	7.22	--
	S.U.	18-Jan-07	--	6.00	--
	S.U.	10-Jul-07	--	8.31	--
	S.U.	15-Jan-08	--	7.53	--
	S.U.	15-Jul-08	--	7.39	--
	S.U.	20-Jan-09	--	6.97	--
	S.U.	21-Jul-09	--	7.93	--
	S.U.	26-Jan-10	--	7.03	--
	S.U.	06-Jul-10	--	7.36	--
	S.U.	05-Jan-11	--	7.50	--
	S.U.	06-Jul-11	--	7.42	--
	S.U.	10-Jan-12	--	7.60	--
	S.U.	09-Jul-12	--	8.15	--
	S.U.	29-Jan-13	--	7.67	--
Conductivity (Field)	µS/cm	07-Apr-99	--	2,061	--
	µS/cm	15-Mar-05	--	6,310	--
	µS/cm	13-Jul-05	--	14,500	--
	µS/cm	20-Jan-06	--	4,940	--
	µS/cm	12-Jul-06	--	7,940	--
	µS/cm	18-Jan-07	--	3,400	--
	µS/cm	10-Jul-07	--	9,800	--
	µS/cm	15-Jan-08	--	13,100	--
	µS/cm	15-Jul-08	--	5,700	--
	µS/cm	20-Jan-09	--	4,816	--
	µS/cm	21-Jul-09	--	10,430	--
	µS/cm	26-Jan-10	--	8,672	--
	µS/cm	06-Jul-10	--	11,900	--
	µS/cm	05-Jan-11	--	11,370	--
	µS/cm	06-Jul-11	--	12,810	--
	µS/cm	10-Jan-12	--	12,470	--
	µS/cm	09-Jul-12	--	13,336	--
	µS/cm	29-Jan-13	--	11,016	--

TABLE 7
Summary of Historical Leachate Constituents/Analytes
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Detected Monitoring Constituents/Parameters	Units	Sample Date	SWS Reporting Limit	Leachate	Blanks
Temperature (Field)	°C	15-Mar-05	--	12.8	--
	°C	13-Jul-05	--	28.82	--
	°C	20-Jan-06	--	16.07	--
	°C	12-Jul-06	--	30.0	--
	°C	18-Jan-07	--	7.0	--
	°C	10-Jul-07	--	33.2	--
	°C	15-Jan-08	--	9.95	--
	°C	15-Jul-08	--	29.93	--
	°C	20-Jan-09	--	6.96	--
	°C	21-Jul-09	--	31.07	--
	°C	26-Jan-10	--	13.84	--
	°C	06-Jul-10	--	28.01	--
	°C	05-Jan-11	--	13.21	--
	°C	10-Jan-12	--	15.8	--
	°C	09-Jul-12	--	29.6	--
	°C	29-Jan-13	--	17.4	--

Notes:
1. mg/L = milligrams per liter
2. µg/L = micrograms per liter
3. S.U. = Standard Units
4. NTU = Nephelometric Turbidity Units
5. ND = Not detected at the stated reporting limit
6. µS/cm = microsiemens per centimeter
7. mV = Millivolts
8. J = Estimated value/not quantified
9. -- = no data
10. Blanks = field, trip and method blanks
11. SWS Reporting Limit = NCPQL prior to 2007 and NCSWSL starting in 01/18/07
    For parameters without SWSL's the laboratory RL is shown
12. The following dilutions were noted for the July 2011 event: VOCs (100x), TKN (50x),
13. All data prior to 2012 taken from previous report by Golder Associates NC, Inc.

Drawing



LEGEND

- PROPERTY LINE
- 710 EXISTING 10' TOPOGRAPHIC CONTOUR
- EXISTING 2' TOPOGRAPHIC CONTOUR
- EXISTING ROAD
- APPROXIMATE LIMITS OF WASTE
- 2660 GROUNDWATER SURFACE CONTOUR [FEET ABOVE MEAN SEA LEVEL (AMSL)]
- GROUNDWATER FLOW DIRECTION
- TREE LINE
- GW-X GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION WITH STATIC WATER LEVEL ELEVATION (FEET AMSL)
- SW-X SURFACE MONITORING POINT LOCATION AND IDENTIFICATION
- PW-X PERSONAL WELL
- i_1 SEGMENT USED FOR GRADIENT CALCULATION

NOTES

1. TOPOGRAPHIC CONTOUR INTERVAL = 2 FEET
2. GROUNDWATER CONTOUR INTERVAL = 1 FEET
3. STATIC WATER LEVELS WERE MEASURED ON 01/28/13.
4. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS. THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL GROUNDWATER CONDITIONS.
5. THIS MAP COMPILED BY AERO-METRIC IN DULLES, VIRGINIA BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATED 3-01-2011. GRID BASED ON ARBITRARY COORDINATE SYSTEM .

DATE	REVISIONS AND RECORD OF ISSUE	NO	BY	CK	APP

DESIGNED	ALF
DRAWN	RWH
CHECKED	AE
APPROVED	VB
DATE	01/31/13

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JOYCE ENGINEERING
2211 W. MEADOWVIEW ROAD
GREENSBORO, NC 27407
PHONE: (336) 323-0092
NC CORP LIC: C-0782

EAST CAROLINA REGIONAL LANDFILL
BERTIE COUNTY, NORTH CAROLINA

POTENTIOMETRIC SURFACE CONTOUR MAP
YORKTOWN FORMATION
JANUARY 28, 2013
PERMIT NO. 08-03

PROJECT NO.
894.1301.12

SCALE
AS SHOWN

DRAWING NO.
1

L:\Republic NC\East Carolina\January 20132 East Carolina GW Map.dwg Layout=Layout1

Appendix A

Groundwater and Surface Water Field Data Logs

DATE: 1/28/2013

JOYCE ENGINEERING

GROUNDWATER SAMPLING LOG

Project Name: Republic- East Carolina LF **Project No. /Task No.:** 894.1301.12.01
Well ID: GW-2 **Sampler(s):** A. Cox/ R. Winfield
Well Diameter: 2.00 inches **Initial Depth to Water:** 16.63 feet
Depth to Bottom: 30.00 feet **Water Column Thickness** 13.37 feet
Well Location: NW corner of landfill, accessed from Republican rd. or landfill access road
Equipment: YSI-Pro, Geo Control Pro Compressor, Water Level Meter, LaMotte 2020 turbidimeter
Flow rate: 150ml/min
System volume: 150ml

Time	pH s.u.	Temp. °C	Cond. µ.s.	Dis. O_2 mg/l	Turb. ntu	ORP mv	DTW feet
1315	4.93	15.6	2.8	5.24	21.4	295.3	17.01
1316	5.03	16.7	116.2	5.35	19.81	284.3	17.09
1317	5.00	16.8	116.9	5.40	20.1	287.2	17.11
1318	4.98	16.8	117.1	5.41	19.95	288.1	17.02
1319	4.97	16.7	117.6	5.42	19.81	289.6	16.97
1320	4.96	16.7	117.6	5.43	19.79	289.9	16.95

Comments (weather conditions, odor, color, silt, type of sample, etc.):

Cloudy 40's

Signature: Adam Cox **Date:** 1/28/13
QA/QC Sign Off: [illegible] **Date:** 2/18/13

DATE: 1/28/2013

JOYCE ENGINEERING

GROUNDWATER SAMPLING LOG

Project Name: Republic- East Carolina LF **Project No. /Task No.:** 894.1301.12.01
Well ID: GW-7 **Sampler(s):** A.Cox/ R. Winfield
Well Diameter: 2.00 inches **Initial Depth to Water:** 11.78 feet
Depth to Bottom: 18.00 feet **Water Column Thickness** 6.22 feet
Well Location: next to leachate tanks
Equipment: YSI-Pro, GCP, Water Level Meter, LaMotte 2020 turbidimeter
Flow rate: 150ml/min
System volume: 150ml

Time	pH s.u.	Temp. °C	Cond. µ.s.	Dis. O_2 mg/l	Turb. ntu	ORP mv	DTW feet
1522	4.32	16.2	179.1	7.42	21.83	360.8	11.79
1523	4.30	16.7	187.7	6.32	20.19	372.7	11.80
1524	4.30	16.5	191.1	5.91	21.20	380.1	11.80
1525	4.32	16.5	190.2	5.88	21.45	381.2	11.81
1526	4.33	16.6	190.1	5.81	20.71	385.8	11.79

Comments (weather conditions, odor, color, silt, type of sample, etc.):

Cloudy 40's

Signature: Adam Cox **Date:** 1/28/13
QA/QC Sign Off: [illegible] **Date:** 2/18/13

DATE: 1/28/2013

JOYCE ENGINEERING

GROUNDWATER SAMPLING LOG

Project Name: Republic- East Carolina LF **Project No. /Task No.:** 894.1301.12.01
Well ID: GW-8 **Sampler(s):** A. Cox/ R. Winfield
Well Diameter: 2.00 inches **Initial Depth to Water:** 13.04 feet
Depth to Bottom: 18.00 feet **Water Column Thickness** 4.96 feet
Well Location: next to maintenance building
Equipment: YSI-Pro, GCP, Water Level Meter, LaMotte 2020 turbidimeter
Flow rate: 150ml/min
System volume: 150ml

Time	pH s.u.	Temp. °C	Cond. µ.s.	Dis. O_2 mg/l	Turb. ntu	ORP mv	DTW feet
1506	6.01	16.0	112.2	6.92	28.91	142.6	13.04
1507	5.18	16.2	106.4	5.91	27.22	216.3	13.06
1508	5.01	16.5	105.4	5.82	22.14	219.6	13.08
1509	4.98	16.5	105.1	5.79	21.09	220.1	13.09

Comments (weather conditions, odor, color, silt, type of sample, etc.):

P. Cloudy 40's

Signature: Adam Cox **Date:** 1/28/13
QA/QC Sign Off: [illegible] **Date:** 2/18/13

DATE: 1/28/2013

JOYCE ENGINEERING

GROUNDWATER SAMPLING LOG

Project Name: Republic- East Carolina LF **Project No. /Task No.:** 894.1301.12.01
Well ID: GW-9 **Sampler(s):** A. Cox/ R. Winfield
Well Diameter: 2.00 inches **Initial Depth to Water:** 4.58 feet
Depth to Bottom: 17.00 feet **Water Column Thickness** 12.42 feet
Well Location: next to wetland near maintenance building
Equipment: YSI-Pro, GCP, Water Level Meter, LaMotte 2020 turbidimeter
Flow rate: 150ml/min
System volume: 150ml

Time	pH s.u.	Temp. °C	Cond. µ.s.	Dis. O_2 mg/l	Turb. ntu	ORP mv	DTW feet
1451	5.57	12.8	2.0	10.39	27.16	149.9	4.58
1452	5.56	13.5	3.1	9.48	39.24	59.3	4.60
1453	5.85	13.5	4.3	8.59	40.15	19.4	4.60
1454	5.89	13.2	4.1	8.61	91.12	20.0	4.59
1455	5.90	13.2	4.2	8.63	91.31	19.8	4.60

Comments (weather conditions, odor, color, silt, type of sample, etc.):

Cloudy 40's

Turbidity increased during sampling

Signature: Adam Cox **Date:** 1/28/13

QA/QC Sign Off: [illegible] **Date:** 2/18/13

DATE: 1/28/2013

JOYCE ENGINEERING

GROUNDWATER SAMPLING LOG

Project Name: Republic- East Carolina LF **Project No. /Task No.:** 894.1301.12.01
Well ID: GW-10 **Sampler(s):** A. Cox/ R. Winfield
Well Diameter: 2.00 inches **Initial Depth to Water:** 4.88 feet
Depth to Bottom: 20.00 feet **Water Column Thickness** 15.12 feet
Well Location: SW of LF behind sed basin
Equipment: YSI-Pro, GCP, Water Level Meter, LaMotte 2020 turbidimeter
Flow rate: 150ml/min
System volume: 150ml

Time	pH s.u.	Temp. °C	Cond. µ.s.	Dis. O_2 mg/l	Turb. ntu	ORP mv	DTW feet
1435	5.75	14.5	104.9	1.06	10.12	251.2	4.89
1436	5.78	14.6	107.4	0.65	11.18	159.8	4.89
1437	5.79	14.6	108.1	0.69	12.10	151.2	4.88
1438	5.79	14.7	109.2	0.68	11.82	150.1	4.89
1439	5.79	14.6	108.9	0.69	11.91	150.1	4.88

Comments (weather conditions, odor, color, silt, type of sample, etc.):

Cloudy 40's

Signature: Adam Cox **Date:** 1/28/13
QA/QC Sign Off: [illegible] **Date:** 2/18/13

DATE: 1/28/2013

JOYCE ENGINEERING

GROUNDWATER SAMPLING LOG

Project Name: Republic- East Carolina LF **Project No. /Task No.:** 894.1301.12.01
Well ID: GW-11 **Sampler(s):** A. Cox/ R. Winfield
Well Diameter: 2.00 inches **Initial Depth to Water:** 24.42 feet
Depth to Bottom: 29.30 feet **Water Column Thickness** 4.88 feet
Well Location: W of LF between perimeter road and constructed wetlands
Equipment: YSI-Pro, GCP, Water Level Meter, LaMotte 2020 turbidimeter
Flow rate: 150ml/min
System volume: 150ml

Time	pH s.u.	Temp. °C	Cond. µ.s.	Dis. O_2 mg/l	Turb. ntu	ORP mv	DTW feet
1412	5.09	15.1	48.0	8.46	14.17	257.0	24.44
1413	5.19	16.9	47.7	7.47	14.29	251.3	24.45
1414	5.21	17.3	46.7	4.04	15.11	249.1	24.45
1415	5.21	17.2	46.2	4.11	15.24	249.2	24.45
1416	5.21	17.3	45.9	4.09	15.29	249.1	24.46

Comments (weather conditions, odor, color, silt, type of sample, etc.):

Cloudy 40's

Signature: Adam Cox **Date:** 1/28/13
QA/QC Sign Off: [illegible] **Date:** 2/18/13

DATE: 1/28/2013

JOYCE ENGINEERING

GROUNDWATER SAMPLING LOG

Project Name: Republic- East Carolina LF **Project No. /Task No.:** 894.1301.12.01
Well ID: GW-13 **Sampler(s):** A. Cox/ R. Winfield
Well Diameter: 2.00 inches **Initial Depth to Water:** 26.12 feet
Depth to Bottom: 41.60 feet **Water Column Thickness** 15.48 feet
Well Location: W of LF between perimeter road and constructed wetlands
Equipment: YSI-Pro, GCP, Water Level Meter, LaMotte 2020 turbidimeter
Flow rate: 150ml/min
System volume: 150ml

Time	pH s.u.	Temp. °C	Cond. µ.s.	Dis. O_2 mg/l	Turb. ntu	ORP mv	DTW feet
1356	5.25	16.1	97.2	7.27	30.1	276.0	26.14
1357	5.15	16.0	96.7	7.19	28.7	284.7	26.17
1358	5.02	16.5	96.3	7.17	27.2	288.6	26.15
1359	5.04	16.9	96.5	7.15	27.1	288.4	26.15

Comments (weather conditions, odor, color, silt, type of sample, etc.):

Cloudy 40's

Signature: Adam Cox **Date:** 1/28/13
QA/QC Sign Off: [illegible] **Date:** 2/18/13

DATE: 1/28/2013

JOYCE ENGINEERING

GROUNDWATER SAMPLING LOG

Project Name: Republic- East Carolina LF **Project No. /Task No.:** 894.1301.12.01
Well ID: GW-15 **Sampler(s):** A. Cox/ R. Winfield
Well Diameter: 2.00 inches **Initial Depth to Water:** 29.11 feet
Depth to Bottom: 39.05 feet **Water Column Thickness** 9.94 feet
Well Location: NW of LF behind container storage
Equipment: YSI-Pro, GCP, Water Level Meter, LaMotte 2020 turbidimeter
Flow rate: 150ml/min
System volume: 150ml

Time	pH s.u.	Temp. °C	Cond. µ.s.	Dis. O_2 mg/l	Turb. ntu	ORP mv	DTW feet
1336	5.31	14.3	43.0	8.27	18.92	246.3	29.19
1337	5.22	14.7	79.4	7.36	19.57	260.8	29.24
1338	5.22	14.7	79.6	7.29	20.2	265.1	29.28
1339	5.22	14.8	79.7	7.28	19.89	267.5	29.29
1340	5.22	14.8	79.8	7.26	20.1	269.7	29.30

Comments (weather conditions, odor, color, silt, type of sample, etc.):

Cloudy 40's

Signature: Adam Cox **Date:** 1/28/13
QA/QC Sign Off: [illegible] **Date:** 2/18/13

DATE: 1/29/2013

JOYCE ENGINEERING

GROUNDWATER SAMPLING LOG

Project Name: Republic- East Carolina LF **Project No. /Task No.:** 894.1301.12.01
Well ID: GW-17 **Sampler(s):** A. Cox/ R. Winfield
Well Diameter: 2.00 inches **Initial Depth to Water:** 34.24 feet
Depth to Bottom: 44.30 feet **Water Column Thickness** 10.06 feet
Well Location: N of LF along perimeter road
Equipment: YSI-Pro, GCP, Water Level Meter, LaMotte 2020 turbidimeter
Flow rate: 150ml/min
System volume: 150ml

Time	pH s.u.	Temp. °C	Cond. µ.s.	Dis. O_2 mg/l	Turb. ntu	ORP mv	DTW feet
1053	5.20	16.6	67.8	5.48	45.2	264.8	34.41
1054	5.00	16.7	63.8	5.29	35.1	284.0	34.48
1055	4.94	16.8	62.4	4.55	31.2	289.9	34.49
1056	4.93	16.9	61.9	4.49	33.2	288.7	34.51
1057	4.93	17.0	61.4	4.51	37.8	287.6	34.52

Comments (weather conditions, odor, color, silt, type of sample, etc.):

Sunny 50's

Signature: Adam Cox **Date:** 1/29/13
QA/QC Sign Off: [illegible] **Date:** 2/18/13

DATE: 1/29/2013

JOYCE ENGINEERING

GROUNDWATER SAMPLING LOG

Project Name: Republic- East Carolina LF **Project No. /Task No.:** 894.1301.12.01
Well ID: GW-16R **Sampler(s):** A. Cox/ R. Winfield
Well Diameter: 2.00 inches **Initial Depth to Water:** 15.03 feet
Depth to Bottom: 27.20 feet **Water Column Thickness** 12.17 feet
Well Location: NE corner of LF along perimeter road
Equipment: YSI-Pro, GCP, Water Level Meter, LaMotte 2020 turbidimeter
Flow rate: 150ml/min
System volume: 150ml

Time	pH s.u.	Temp. °C	Cond. µ.s.	Dis. O_2 mg/l	Turb. ntu	ORP mv	DTW feet
1113	4.89	17.0	29.5	4.97	21.2	302.3	15.20
1114	4.83	16.8	28.6	4.26	19.15	284.3	15.22
1115	4.82	16.7	28.5	1.98	17.26	270.4	15.30
1116	4.80	16.7	28.1	1.95	15.11	264.2	15.34
1117	4.79	16.6	27.5	1.90	15.26	261.4	15.41

Comments (weather conditions, odor, color, silt, type of sample, etc.):

Sunny 60's

Signature: Adam Cox **Date:** 1/29/13
QA/QC Sign Off: [illegible] **Date:** 2/18/13

DATE: 1/28/2013

JOYCE ENGINEERING

GROUNDWATER SAMPLING LOG

Project Name: Republic- East Carolina **Project No. /Task No.:** 894.1301.12.01
Well ID: PW-1 **Sampler(s):** A. Cox / R. Winfield
Well Diameter: - inches **Initial Depth to Water:** - feet
Depth to Bottom: - feet **Water Column Thickness:** - feet
Well Location: spigot inside pump house back left corner
Equipment: YSI-Pro, LaMotte 2020 turbidimeter
Flow rate: ml/min
System volume: ml

Time	pH s.u.	Temp. °C	Cond. µ.s.	Dis. O_2 mg/l	Turb. ntu	ORP mv	DTW feet
1125	8.30	13.1	374.1	4.86	5.06	33.7	-

Comments (weather conditions, odor, color, silt, type of sample, etc.):

Cloudy 40's

Ran pump for fifteen minutes then sampled @ 1125

Signature: Adam Cox **Date:** 1/28/13

QA/QC Sign Off: [illegible] **Date:** 2/18/13

Date: 1/29/13

JOYCE ENGINEERING

LEACHATE SAMPLING LOG

Project Name: Republic- East Carolina LF **Project/Task No.:** 894.1301.12.01

Surface Point ID: Leachate **Sampler(s):** A. Cox / R. Winfield

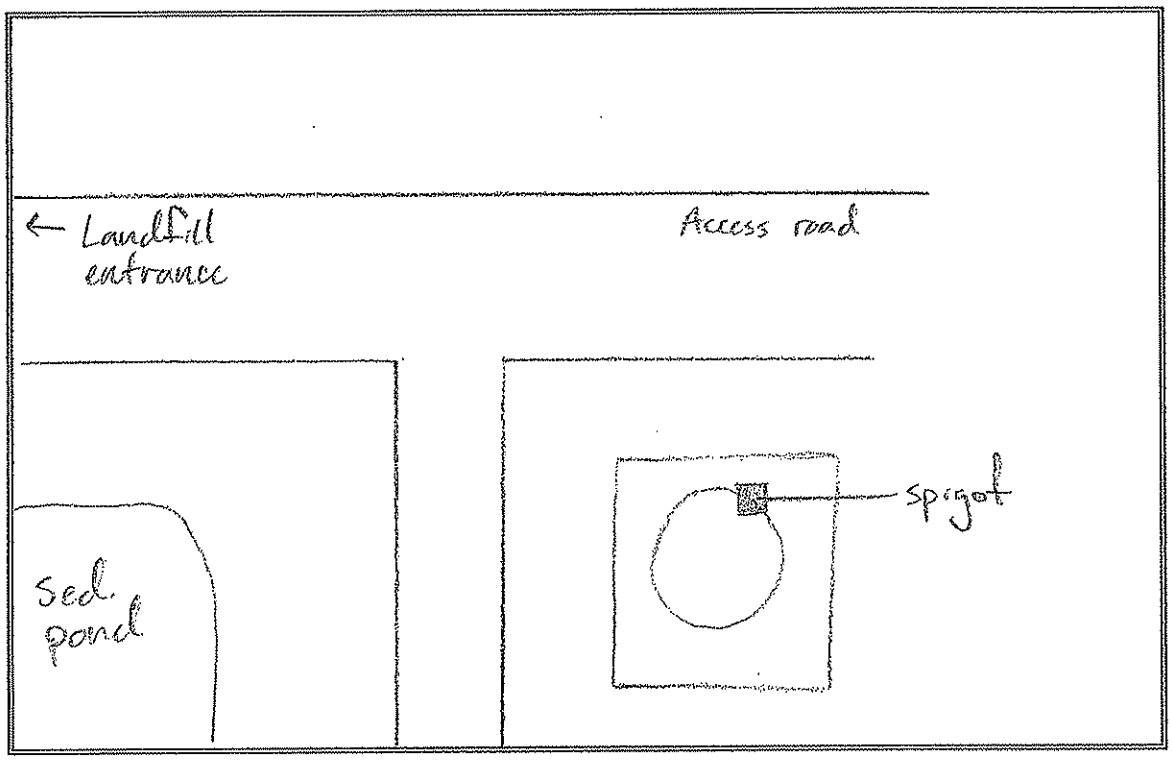
Location: leachate tank located near methane flare

Field Parameters:

Time of Sampling:	1150	
pH:	7.67	
Temperature:	17.4	(°C)
Conductivity:	11,016	(µS)
Turbidity:	>1000	(ntu)
DO:	1.62	(mg/l)
ORP:	-95.6	(mV)

Comments/Sample Description (weather conditions, odor, color, silt, etc.):

Sunny 60's



Signature: Adam Cox **Date:** 1/29/13

QA/QC Sign Off: [illegible] **Date:** 2/18/13

DATE: 1/28/2013

JOYCE ENGINEERING

SURFACE WATER SAMPLING LOG

Project Name: Republic- East Carolina LF **Project/Task No.:** 00865.1204.12.01

Surface Point ID: SW-1 **Sampler(s):** A. Everhart / R. Winfield

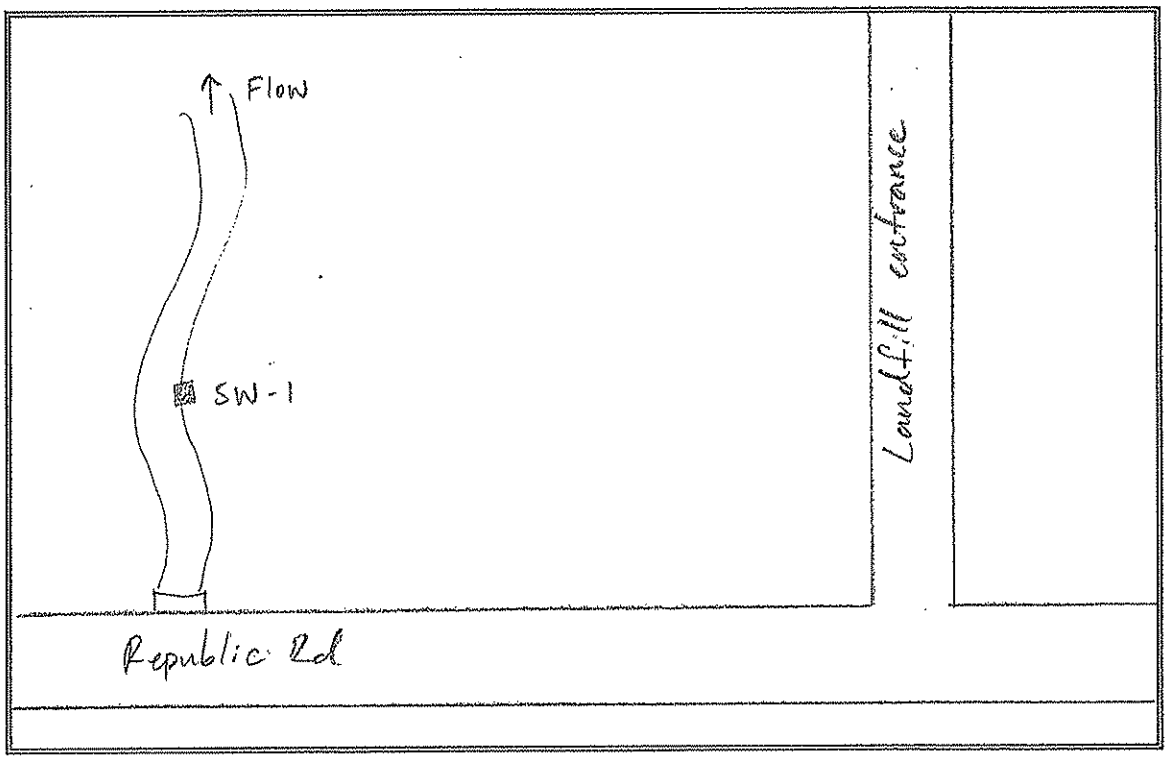
Location: stream along Republican rd. near LF entrance

Field Parameters:

Time of Sampling:	1100	
pH:	5.82	
Temperature:	5.4	(°C)
Conductivity:	136.3	(µS)
Turbidity:	27.9	(ntu)
DO :	7.35	(mg/l)
ORP :	141.8	(mV)

Comments/Sample Description (weather conditions, odor, color, silt, etc.):

Cloudy 40's



Signature: Adam Cox **Date:** 1/28/13

QA/QC Sign Off: [illegible] **Date:** 2/18/13

DATE: 1/28/2013

JOYCE ENGINEERING

SURFACE WATER SAMPLING LOG

Project Name: Republic- East Carolina LF **Project/Task No.:** 894.1301.12.01

Surface Point ID: SW-2 **Sampler(s):** A. Cox/ R. Winfield

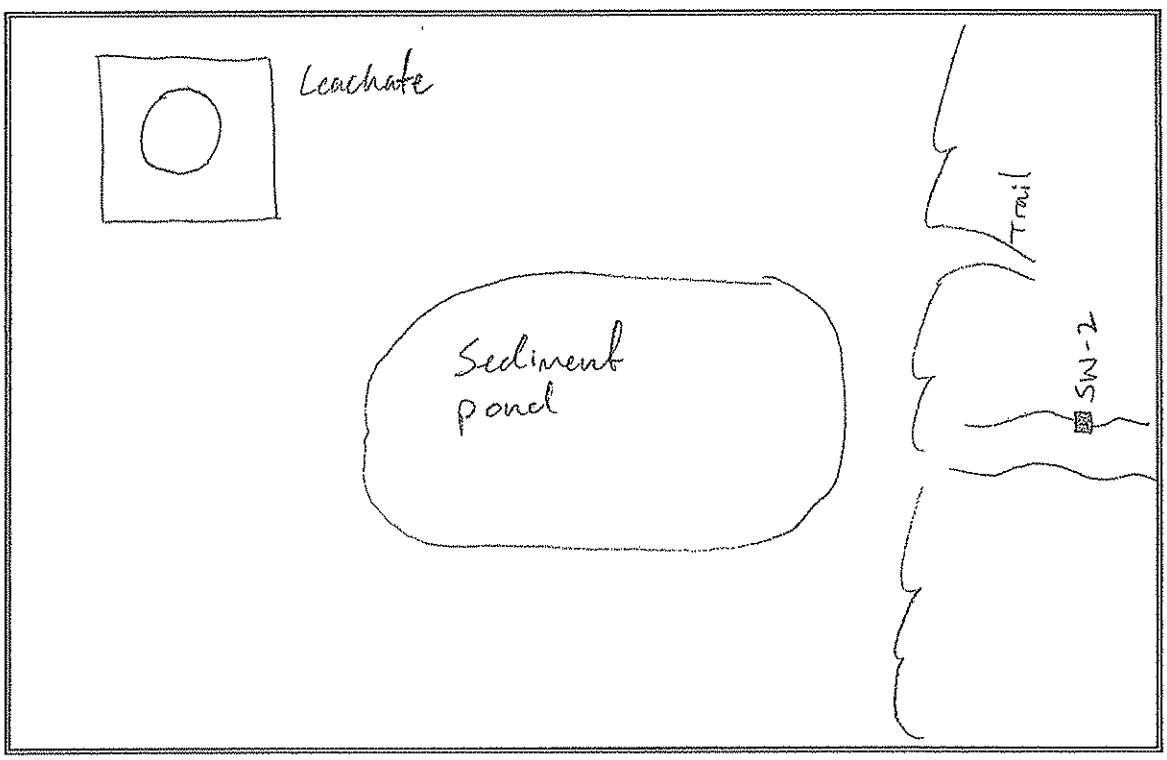
Location: behind leachate tanks and sed. pond in trees

Field Parameters:

Time of Sampling:	1135	
pH:	8.63	
Temperature:	5.0	(°C)
Conductivity:	567.4	(µS)
Turbidity:	32.4	(ntu)
DO :	10.23	(mg/l)
ORP :	46.2	(mV)

Comments/Sample Description (weather conditions, odor, color, silt, etc.):

Cloudy 40's



Signature: Adam Cox **Date:** 1/28/13

QA/QC Sign Off: [illegible] **Date:** 2/18/13

DATE: 1/28/2013

JOYCE ENGINEERING

SURFACE WATER SAMPLING LOG

Project Name: Republic- East Carolina LF **Project/Task No.:** 894.1301.12.01

Surface Point ID: SW-3 **Sampler(s):** A. Cox / R. Winfield

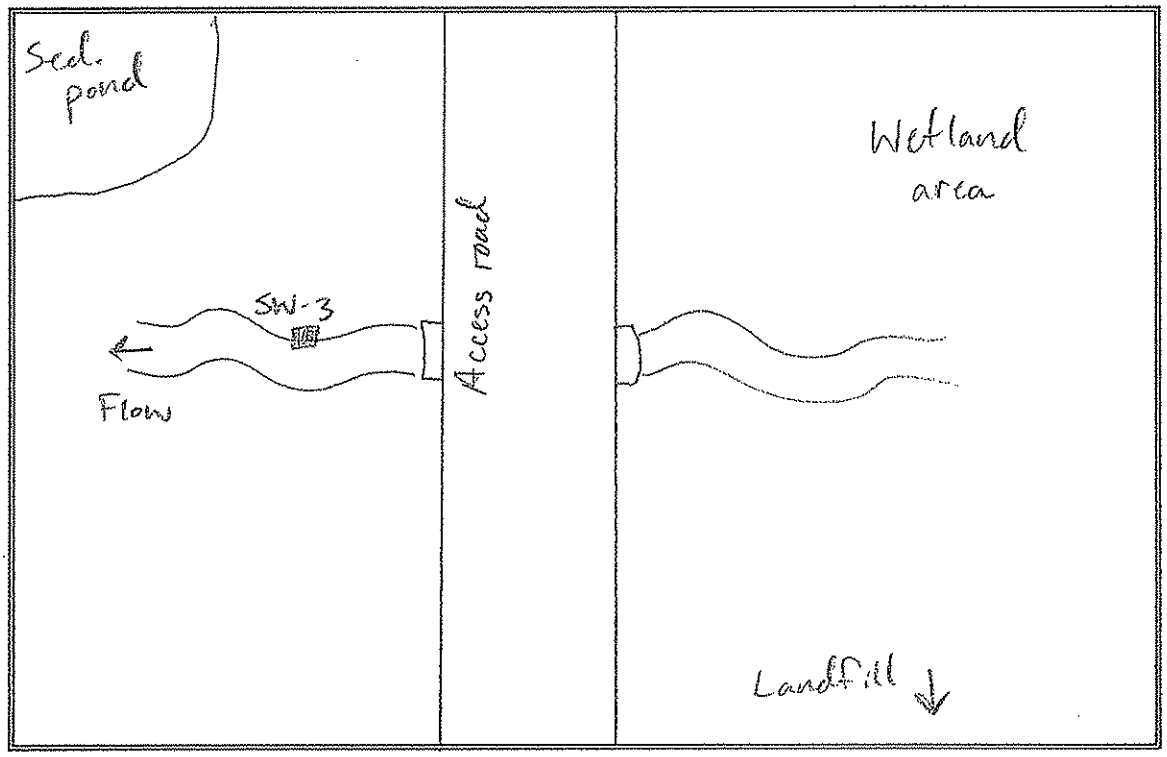
Location: off access road near wetland area

Field Parameters:

Time of Sampling:	1145	
pH:	8.98	
Temperature:	2.0	(°C)
Conductivity:	191.5	(µS)
Turbidity:	21.2	(ntu)
DO :	11.89	(mg/l)
ORP :	59.6	(mV)

Comments/Sample Description (weather conditions, odor, color, silt, etc.):

Cloudy 40's



Signature: Adam Cox **Date:** 1/28/13

QA/QC Sign Off: [illegible] **Date:** 2/18/13

DATE: 1/28/2013

JOYCE ENGINEERING

SURFACE WATER SAMPLING LOG

Project Name: Republic- East Carolina LF **Project/Task No.:** 894.1301.12.01

Surface Point ID: SW-4 **Sampler(s):** A. Cox / R. Winfield

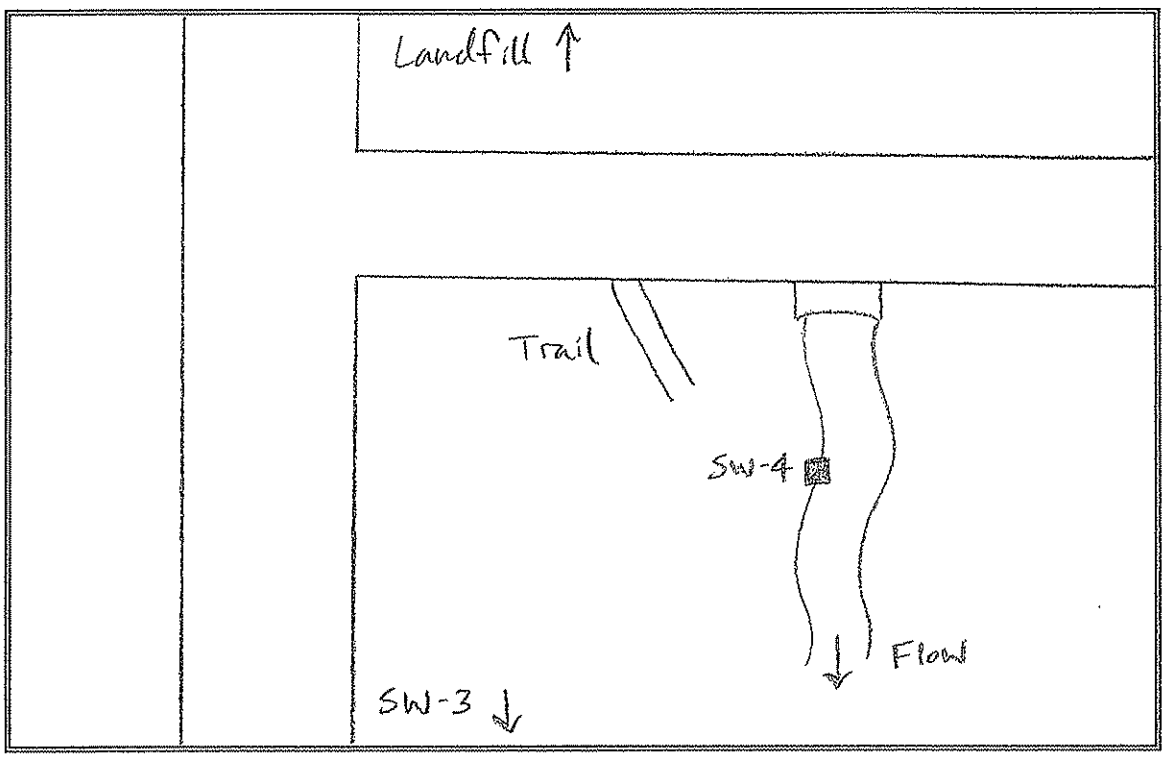
Location: returning to LF from SW-3, first right, along right side of road in trees

Field Parameters:

Time of Sampling:	1155	
pH:	7.81	
Temperature:	4.7	(°C)
Conductivity:	85.8	(µS)
Turbidity:	116	(ntu)
DO :	9.52	(mg/l)
ORP :	136.8	(mV)

Comments/Sample Description (weather conditions, odor, color, silt, etc.):

Cloudy 40's



Signature: Adam Cox **Date:** 1/28/13

QA/QC Sign Off: [illegible] **Date:** 2/18/13

Appendix B

January 2013 Laboratory Analytical Report

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Report Number: AWA0838

Project: East Carolina Regional Landfill

Project #:[none]

Prepared For:
Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover, NC 28613

Attention: Mr. Ray Hoffman

February 08, 2013

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call. Analytical Services, Inc. certifies that the following analytical results meet all requirements of the National Environmental Laboratory Accreditation Conference(NELAC).All test results relate only to the samples analyzed.

Approved:

Judy Wagner
Project Manager

This report may not be reproduced, except in full, without written approval from Analytical Services, Inc.

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
0803-GW2	AWA0838-01	Ground Water	01/28/13 13:20	01/30/13 11:55
0803-GW7	AWA0838-02	Ground Water	01/28/13 15:26	01/30/13 11:55
0803-GW8	AWA0838-03	Ground Water	01/28/13 15:09	01/30/13 11:55
0803-GW9	AWA0838-04	Ground Water	01/28/13 14:55	01/30/13 11:55
0803-GW10	AWA0838-05	Ground Water	01/28/13 14:39	01/30/13 11:55
0803-GW11	AWA0838-06	Ground Water	01/28/13 14:16	01/30/13 11:55
0803-GW13	AWA0838-07	Ground Water	01/28/13 13:59	01/30/13 11:55
0803-GW15	AWA0838-08	Ground Water	01/28/13 13:40	01/30/13 11:55
0803-GW16R	AWA0838-09	Ground Water	01/29/13 11:17	01/30/13 11:55
0803-GW17	AWA0838-10	Ground Water	01/29/13 10:57	01/30/13 11:55
0803-PW1	AWA0838-11	Water	01/28/13 11:25	01/30/13 11:55
0803-SW1	AWA0838-12	Surface Water	01/28/13 11:00	01/30/13 11:55
0803-SW2	AWA0838-13	Surface Water	01/28/13 11:35	01/30/13 11:55
0803-SW3	AWA0838-14	Surface Water	01/28/13 11:45	01/30/13 11:55
0803-SW4	AWA0838-15	Surface Water	01/28/13 11:55	01/30/13 11:55
0803-Field Blank	AWA0838-16	Water	01/29/13 12:15	01/30/13 11:55
0803-Trip Blank	AWA0838-17	Water	01/28/13 07:00	01/30/13 11:55

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW2
Lab No: AWA0838-01
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 13:20
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	1.47	6.00	1	ug/L	J	0.19	7440-36-0	01/31/13 09:00	01/31/13 21:44	3010695
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.20	7440-38-2	01/31/13 09:00	01/31/13 21:44	3010695
Barium	EPA 6020A	EPA 3005A	387	100	1	ug/L		0.49	7440-39-3	01/31/13 09:00	01/31/13 21:44	3010695
Beryllium	EPA 6020A	EPA 3005A	0.85	1.00	1	ug/L	J	0.09	7440-41-7	01/31/13 09:00	01/31/13 21:44	3010695
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	01/31/13 09:00	01/31/13 21:44	3010695
Chromium	EPA 6020A	EPA 3005A	2.40	10.0	1	ug/L	J	0.71	7440-47-3	01/31/13 09:00	01/31/13 21:44	3010695
Cobalt	EPA 6020A	EPA 3005A	9.53	10.0	1	ug/L	J	0.17	7440-48-4	01/31/13 09:00	01/31/13 21:44	3010695
Copper	EPA 6020A	EPA 3005A	1.12	10.0	1	ug/L	J	0.18	7440-50-8	01/31/13 09:00	01/31/13 21:44	3010695
Lead	EPA 6020A	EPA 3005A	0.25	10.0	1	ug/L	J	0.09	7439-92-1	01/31/13 09:00	01/31/13 21:44	3010695
Nickel	EPA 6020A	EPA 3005A	7.35	50.0	1	ug/L	J	0.18	7440-02-0	01/31/13 09:00	01/31/13 21:44	3010695
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.54	7782-49-2	01/31/13 09:00	01/31/13 21:44	3010695
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.10	7440-22-4	01/31/13 09:00	01/31/13 21:44	3010695
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.23	7440-28-0	01/31/13 09:00	01/31/13 21:44	3010695
Vanadium	EPA 6020A	EPA 3005A	2.24	25.0	1	ug/L	B-01, J	1.70	7440-62-2	01/31/13 09:00	01/31/13 21:44	3010695
Zinc	EPA 6020A	EPA 3005A	8.93	10.0	1	ug/L	J	0.27	7440-66-6	01/31/13 09:00	01/31/13 21:44	3010695
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		6.1	67-64-1	01/30/13 14:30	01/30/13 14:51	3010675
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.9	107-13-1	01/30/13 14:30	01/30/13 14:51	3010675
Benzene	EPA 8260B	EPA 5030B	0.7	1.0	1	ug/L	J	0.1	71-43-2	01/30/13 14:30	01/30/13 14:51	3010675
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	01/30/13 14:30	01/30/13 14:51	3010675
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-27-4	01/30/13 14:30	01/30/13 14:51	3010675

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW2
Lab No: AWA0838-01
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 13:20
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.0	75-25-2	01/30/13 14:30	01/30/13 14:51	3010675
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		2.0	74-83-9	01/30/13 14:30	01/30/13 14:51	3010675
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	75-15-0	01/30/13 14:30	01/30/13 14:51	3010675
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	56-23-5	01/30/13 14:30	01/30/13 14:51	3010675
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	01/30/13 14:30	01/30/13 14:51	3010675
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	75-00-3	01/30/13 14:30	01/30/13 14:51	3010675
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	67-66-3	01/30/13 14:30	01/30/13 14:51	3010675
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	74-87-3	01/30/13 14:30	01/30/13 14:51	3010675
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.3	124-48-1	01/30/13 14:30	01/30/13 14:51	3010675
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	01/30/13 14:30	01/30/13 14:51	3010675
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	01/30/13 14:30	01/30/13 14:51	3010675
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	01/30/13 14:30	01/30/13 14:51	3010675
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	01/30/13 14:30	01/30/13 14:51	3010675
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	01/30/13 14:30	01/30/13 14:51	3010675
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	01/30/13 14:30	01/30/13 14:51	3010675
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	01/30/13 14:30	01/30/13 14:51	3010675
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	01/30/13 14:30	01/30/13 14:51	3010675
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	01/30/13 14:30	01/30/13 14:51	3010675
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	01/30/13 14:30	01/30/13 14:51	3010675
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	156-60-5	01/30/13 14:30	01/30/13 14:51	3010675
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	01/30/13 14:30	01/30/13 14:51	3010675
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-01-5	01/30/13 14:30	01/30/13 14:51	3010675

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW2
Lab No: AWA0838-01
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 13:20
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-02-6	01/30/13 14:30	01/30/13 14:51	3010675
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-41-4	01/30/13 14:30	01/30/13 14:51	3010675
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.8	74-88-4	01/30/13 14:30	01/30/13 14:51	3010675
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.3	591-78-6	01/30/13 14:30	01/30/13 14:51	3010675
Methylene Chloride	EPA 8260B	EPA 5030B	0.5	1.0	1	ug/L	J	0.2	75-09-2	01/30/13 14:30	01/30/13 14:51	3010675
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	78-93-3	01/30/13 14:30	01/30/13 14:51	3010675
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	108-10-1	01/30/13 14:30	01/30/13 14:51	3010675
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	100-42-5	01/30/13 14:30	01/30/13 14:51	3010675
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	01/30/13 14:30	01/30/13 14:51	3010675
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	79-34-5	01/30/13 14:30	01/30/13 14:51	3010675
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	127-18-4	01/30/13 14:30	01/30/13 14:51	3010675
Toluene	EPA 8260B	EPA 5030B	1.5	1.0	1	ug/L	B-01	0.2	108-88-3	01/30/13 14:30	01/30/13 14:51	3010675
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	01/30/13 14:30	01/30/13 14:51	3010675
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-00-5	01/30/13 14:30	01/30/13 14:51	3010675
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	79-01-6	01/30/13 14:30	01/30/13 14:51	3010675
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-69-4	01/30/13 14:30	01/30/13 14:51	3010675
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	96-18-4	01/30/13 14:30	01/30/13 14:51	3010675
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.3	108-05-4	01/30/13 14:30	01/30/13 14:51	3010675
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	01/30/13 14:30	01/30/13 14:51	3010675
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.8	1330-20-7	01/30/13 14:30	01/30/13 14:51	3010675
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	97 %		80-120				1868-53-7	01/30/13 14:30	01/30/13 14:51	3010675

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110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW2
Lab No: AWA0838-01
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 13:20
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	100 %		78-120				17060-07-0	01/30/13 14:30	01/30/13 14:51	3010675
Surr: Toluene-d8	EPA 8260B	EPA 5030B	99 %		80-120				2037-26-5	01/30/13 14:30	01/30/13 14:51	3010675
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	100 %		80-120				460-00-4	01/30/13 14:30	01/30/13 14:51	3010675

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW7
Lab No: AWA0838-02
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 15:26
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	0.40	6.00	1	ug/L	J	0.19	7440-36-0	01/31/13 09:00	01/31/13 21:50	3010695
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.20	7440-38-2	01/31/13 09:00	01/31/13 21:50	3010695
Barium	EPA 6020A	EPA 3005A	72.0	100	1	ug/L	J	0.49	7440-39-3	01/31/13 09:00	01/31/13 21:50	3010695
Beryllium	EPA 6020A	EPA 3005A	2.01	1.00	1	ug/L		0.09	7440-41-7	01/31/13 09:00	01/31/13 21:50	3010695
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	01/31/13 09:00	01/31/13 21:50	3010695
Chromium	EPA 6020A	EPA 3005A	2.06	10.0	1	ug/L	J	0.71	7440-47-3	01/31/13 09:00	01/31/13 21:50	3010695
Cobalt	EPA 6020A	EPA 3005A	33.3	10.0	1	ug/L		0.17	7440-48-4	01/31/13 09:00	01/31/13 21:50	3010695
Copper	EPA 6020A	EPA 3005A	1.13	10.0	1	ug/L	J	0.18	7440-50-8	01/31/13 09:00	01/31/13 21:50	3010695
Lead	EPA 6020A	EPA 3005A	1.14	10.0	1	ug/L	J	0.09	7439-92-1	01/31/13 09:00	01/31/13 21:50	3010695
Nickel	EPA 6020A	EPA 3005A	9.57	50.0	1	ug/L	J	0.18	7440-02-0	01/31/13 09:00	01/31/13 21:50	3010695
Selenium	EPA 6020A	EPA 3005A	1.10	10.0	1	ug/L	J	0.54	7782-49-2	01/31/13 09:00	01/31/13 21:50	3010695
Silver	EPA 6020A	EPA 3005A	0.34	10.0	1	ug/L	J	0.10	7440-22-4	01/31/13 09:00	01/31/13 21:50	3010695
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.23	7440-28-0	01/31/13 09:00	01/31/13 21:50	3010695
Vanadium	EPA 6020A	EPA 3005A	ND	25.0	1	ug/L		1.70	7440-62-2	01/31/13 09:00	01/31/13 21:50	3010695
Zinc	EPA 6020A	EPA 3005A	4.76	10.0	1	ug/L	J	0.27	7440-66-6	01/31/13 09:00	01/31/13 21:50	3010695
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		6.1	67-64-1	01/30/13 14:30	01/30/13 15:19	3010675
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.9	107-13-1	01/30/13 14:30	01/30/13 15:19	3010675
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	71-43-2	01/30/13 14:30	01/30/13 15:19	3010675
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	01/30/13 14:30	01/30/13 15:19	3010675
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-27-4	01/30/13 14:30	01/30/13 15:19	3010675

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(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW7
Lab No: AWA0838-02
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 15:26
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.0	75-25-2	01/30/13 14:30	01/30/13 15:19	3010675
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		2.0	74-83-9	01/30/13 14:30	01/30/13 15:19	3010675
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	75-15-0	01/30/13 14:30	01/30/13 15:19	3010675
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	56-23-5	01/30/13 14:30	01/30/13 15:19	3010675
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	01/30/13 14:30	01/30/13 15:19	3010675
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	75-00-3	01/30/13 14:30	01/30/13 15:19	3010675
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	67-66-3	01/30/13 14:30	01/30/13 15:19	3010675
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	74-87-3	01/30/13 14:30	01/30/13 15:19	3010675
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.3	124-48-1	01/30/13 14:30	01/30/13 15:19	3010675
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	01/30/13 14:30	01/30/13 15:19	3010675
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	01/30/13 14:30	01/30/13 15:19	3010675
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	01/30/13 14:30	01/30/13 15:19	3010675
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	01/30/13 14:30	01/30/13 15:19	3010675
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	01/30/13 14:30	01/30/13 15:19	3010675
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	01/30/13 14:30	01/30/13 15:19	3010675
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	01/30/13 14:30	01/30/13 15:19	3010675
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	01/30/13 14:30	01/30/13 15:19	3010675
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	01/30/13 14:30	01/30/13 15:19	3010675
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	01/30/13 14:30	01/30/13 15:19	3010675
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	156-60-5	01/30/13 14:30	01/30/13 15:19	3010675
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	01/30/13 14:30	01/30/13 15:19	3010675
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-01-5	01/30/13 14:30	01/30/13 15:19	3010675

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW7
Lab No: AWA0838-02
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 15:26
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-02-6	01/30/13 14:30	01/30/13 15:19	3010675
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-41-4	01/30/13 14:30	01/30/13 15:19	3010675
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.8	74-88-4	01/30/13 14:30	01/30/13 15:19	3010675
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.3	591-78-6	01/30/13 14:30	01/30/13 15:19	3010675
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-09-2	01/30/13 14:30	01/30/13 15:19	3010675
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	78-93-3	01/30/13 14:30	01/30/13 15:19	3010675
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	108-10-1	01/30/13 14:30	01/30/13 15:19	3010675
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	100-42-5	01/30/13 14:30	01/30/13 15:19	3010675
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	01/30/13 14:30	01/30/13 15:19	3010675
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	79-34-5	01/30/13 14:30	01/30/13 15:19	3010675
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	127-18-4	01/30/13 14:30	01/30/13 15:19	3010675
Toluene	EPA 8260B	EPA 5030B	0.2	1.0	1	ug/L	B-01, J	0.2	108-88-3	01/30/13 14:30	01/30/13 15:19	3010675
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	01/30/13 14:30	01/30/13 15:19	3010675
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-00-5	01/30/13 14:30	01/30/13 15:19	3010675
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	79-01-6	01/30/13 14:30	01/30/13 15:19	3010675
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-69-4	01/30/13 14:30	01/30/13 15:19	3010675
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	96-18-4	01/30/13 14:30	01/30/13 15:19	3010675
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.3	108-05-4	01/30/13 14:30	01/30/13 15:19	3010675
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	01/30/13 14:30	01/30/13 15:19	3010675
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.8	1330-20-7	01/30/13 14:30	01/30/13 15:19	3010675
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	95 %		80-120				1868-53-7	01/30/13 14:30	01/30/13 15:19	3010675

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW7
Lab No: AWA0838-02
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 15:26
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	101 %		78-120				17060-07-0	01/30/13 14:30	01/30/13 15:19	3010675
Surr: Toluene-d8	EPA 8260B	EPA 5030B	99 %		80-120				2037-26-5	01/30/13 14:30	01/30/13 15:19	3010675
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	99 %		80-120				460-00-4	01/30/13 14:30	01/30/13 15:19	3010675

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Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW8
Lab No: AWA0838-03
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 15:09
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		0.19	7440-36-0	01/31/13 09:00	01/31/13 21:56	3010695
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.20	7440-38-2	01/31/13 09:00	01/31/13 21:56	3010695
Barium	EPA 6020A	EPA 3005A	91.9	100	1	ug/L	J	0.49	7440-39-3	01/31/13 09:00	01/31/13 21:56	3010695
Beryllium	EPA 6020A	EPA 3005A	0.46	1.00	1	ug/L	J	0.09	7440-41-7	01/31/13 09:00	01/31/13 21:56	3010695
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	01/31/13 09:00	01/31/13 21:56	3010695
Chromium	EPA 6020A	EPA 3005A	1.82	10.0	1	ug/L	J	0.71	7440-47-3	01/31/13 09:00	01/31/13 21:56	3010695
Cobalt	EPA 6020A	EPA 3005A	2.98	10.0	1	ug/L	J	0.17	7440-48-4	01/31/13 09:00	01/31/13 21:56	3010695
Copper	EPA 6020A	EPA 3005A	1.23	10.0	1	ug/L	J	0.18	7440-50-8	01/31/13 09:00	01/31/13 21:56	3010695
Lead	EPA 6020A	EPA 3005A	0.22	10.0	1	ug/L	J	0.09	7439-92-1	01/31/13 09:00	01/31/13 21:56	3010695
Nickel	EPA 6020A	EPA 3005A	2.60	50.0	1	ug/L	J	0.18	7440-02-0	01/31/13 09:00	01/31/13 21:56	3010695
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.54	7782-49-2	01/31/13 09:00	01/31/13 21:56	3010695
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.10	7440-22-4	01/31/13 09:00	01/31/13 21:56	3010695
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.23	7440-28-0	01/31/13 09:00	01/31/13 21:56	3010695
Vanadium	EPA 6020A	EPA 3005A	ND	25.0	1	ug/L		1.70	7440-62-2	01/31/13 09:00	01/31/13 21:56	3010695
Zinc	EPA 6020A	EPA 3005A	2.66	10.0	1	ug/L	J	0.27	7440-66-6	01/31/13 09:00	01/31/13 21:56	3010695
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		6.1	67-64-1	01/30/13 14:30	01/30/13 15:48	3010675
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.9	107-13-1	01/30/13 14:30	01/30/13 15:48	3010675
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	71-43-2	01/30/13 14:30	01/30/13 15:48	3010675
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	01/30/13 14:30	01/30/13 15:48	3010675
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-27-4	01/30/13 14:30	01/30/13 15:48	3010675

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW8
Lab No: AWA0838-03
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 15:09
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.0	75-25-2	01/30/13 14:30	01/30/13 15:48	3010675
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		2.0	74-83-9	01/30/13 14:30	01/30/13 15:48	3010675
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	75-15-0	01/30/13 14:30	01/30/13 15:48	3010675
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	56-23-5	01/30/13 14:30	01/30/13 15:48	3010675
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	01/30/13 14:30	01/30/13 15:48	3010675
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	75-00-3	01/30/13 14:30	01/30/13 15:48	3010675
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	67-66-3	01/30/13 14:30	01/30/13 15:48	3010675
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	74-87-3	01/30/13 14:30	01/30/13 15:48	3010675
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.3	124-48-1	01/30/13 14:30	01/30/13 15:48	3010675
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	01/30/13 14:30	01/30/13 15:48	3010675
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	01/30/13 14:30	01/30/13 15:48	3010675
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	01/30/13 14:30	01/30/13 15:48	3010675
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	01/30/13 14:30	01/30/13 15:48	3010675
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	01/30/13 14:30	01/30/13 15:48	3010675
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	01/30/13 14:30	01/30/13 15:48	3010675
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	01/30/13 14:30	01/30/13 15:48	3010675
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	01/30/13 14:30	01/30/13 15:48	3010675
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	01/30/13 14:30	01/30/13 15:48	3010675
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	01/30/13 14:30	01/30/13 15:48	3010675
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	156-60-5	01/30/13 14:30	01/30/13 15:48	3010675
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	01/30/13 14:30	01/30/13 15:48	3010675
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-01-5	01/30/13 14:30	01/30/13 15:48	3010675

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW8
Lab No: AWA0838-03
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 15:09
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-02-6	01/30/13 14:30	01/30/13 15:48	3010675
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-41-4	01/30/13 14:30	01/30/13 15:48	3010675
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.8	74-88-4	01/30/13 14:30	01/30/13 15:48	3010675
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.3	591-78-6	01/30/13 14:30	01/30/13 15:48	3010675
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-09-2	01/30/13 14:30	01/30/13 15:48	3010675
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	78-93-3	01/30/13 14:30	01/30/13 15:48	3010675
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	108-10-1	01/30/13 14:30	01/30/13 15:48	3010675
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	100-42-5	01/30/13 14:30	01/30/13 15:48	3010675
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	01/30/13 14:30	01/30/13 15:48	3010675
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	79-34-5	01/30/13 14:30	01/30/13 15:48	3010675
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	127-18-4	01/30/13 14:30	01/30/13 15:48	3010675
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	01/30/13 14:30	01/30/13 15:48	3010675
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	01/30/13 14:30	01/30/13 15:48	3010675
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-00-5	01/30/13 14:30	01/30/13 15:48	3010675
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	79-01-6	01/30/13 14:30	01/30/13 15:48	3010675
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-69-4	01/30/13 14:30	01/30/13 15:48	3010675
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	96-18-4	01/30/13 14:30	01/30/13 15:48	3010675
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.3	108-05-4	01/30/13 14:30	01/30/13 15:48	3010675
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	01/30/13 14:30	01/30/13 15:48	3010675
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.8	1330-20-7	01/30/13 14:30	01/30/13 15:48	3010675
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	97 %		80-120				1868-53-7	01/30/13 14:30	01/30/13 15:48	3010675

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW8
Lab No: AWA0838-03
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 15:09
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	99 %		78-120				17060-07-0	01/30/13 14:30	01/30/13 15:48	3010675
Surr: Toluene-d8	EPA 8260B	EPA 5030B	100 %		80-120				2037-26-5	01/30/13 14:30	01/30/13 15:48	3010675
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	98 %		80-120				460-00-4	01/30/13 14:30	01/30/13 15:48	3010675

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110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW9
Lab No: AWA0838-04
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 14:55
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		0.19	7440-36-0	01/31/13 09:00	01/31/13 22:02	3010695
Arsenic	EPA 6020A	EPA 3005A	3.49	10.0	1	ug/L	J	1.20	7440-38-2	01/31/13 09:00	01/31/13 22:02	3010695
Barium	EPA 6020A	EPA 3005A	257	100	1	ug/L		0.49	7440-39-3	01/31/13 09:00	01/31/13 22:02	3010695
Beryllium	EPA 6020A	EPA 3005A	1.38	1.00	1	ug/L		0.09	7440-41-7	01/31/13 09:00	01/31/13 22:02	3010695
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	01/31/13 09:00	01/31/13 22:02	3010695
Chromium	EPA 6020A	EPA 3005A	3.18	10.0	1	ug/L	J	0.71	7440-47-3	01/31/13 09:00	01/31/13 22:02	3010695
Cobalt	EPA 6020A	EPA 3005A	2.84	10.0	1	ug/L	J	0.17	7440-48-4	01/31/13 09:00	01/31/13 22:02	3010695
Copper	EPA 6020A	EPA 3005A	1.39	10.0	1	ug/L	J	0.18	7440-50-8	01/31/13 09:00	01/31/13 22:02	3010695
Lead	EPA 6020A	EPA 3005A	1.77	10.0	1	ug/L	J	0.09	7439-92-1	01/31/13 09:00	01/31/13 22:02	3010695
Nickel	EPA 6020A	EPA 3005A	8.82	50.0	1	ug/L	J	0.18	7440-02-0	01/31/13 09:00	01/31/13 22:02	3010695
Selenium	EPA 6020A	EPA 3005A	1.49	10.0	1	ug/L	J	0.54	7782-49-2	01/31/13 09:00	01/31/13 22:02	3010695
Silver	EPA 6020A	EPA 3005A	0.90	10.0	1	ug/L	J	0.10	7440-22-4	01/31/13 09:00	01/31/13 22:02	3010695
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.23	7440-28-0	01/31/13 09:00	01/31/13 22:02	3010695
Vanadium	EPA 6020A	EPA 3005A	15.3	25.0	1	ug/L	B-01, J	1.70	7440-62-2	01/31/13 09:00	01/31/13 22:02	3010695
Zinc	EPA 6020A	EPA 3005A	9.37	10.0	1	ug/L	J	0.27	7440-66-6	01/31/13 09:00	01/31/13 22:02	3010695
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		6.1	67-64-1	01/30/13 14:30	01/30/13 16:17	3010675
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.9	107-13-1	01/30/13 14:30	01/30/13 16:17	3010675
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	71-43-2	01/30/13 14:30	01/30/13 16:17	3010675
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	01/30/13 14:30	01/30/13 16:17	3010675
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-27-4	01/30/13 14:30	01/30/13 16:17	3010675

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW9
Lab No: AWA0838-04
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 14:55
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.0	75-25-2	01/30/13 14:30	01/30/13 16:17	3010675
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		2.0	74-83-9	01/30/13 14:30	01/30/13 16:17	3010675
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	75-15-0	01/30/13 14:30	01/30/13 16:17	3010675
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	56-23-5	01/30/13 14:30	01/30/13 16:17	3010675
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	01/30/13 14:30	01/30/13 16:17	3010675
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	75-00-3	01/30/13 14:30	01/30/13 16:17	3010675
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	67-66-3	01/30/13 14:30	01/30/13 16:17	3010675
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	74-87-3	01/30/13 14:30	01/30/13 16:17	3010675
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.3	124-48-1	01/30/13 14:30	01/30/13 16:17	3010675
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	01/30/13 14:30	01/30/13 16:17	3010675
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	01/30/13 14:30	01/30/13 16:17	3010675
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	01/30/13 14:30	01/30/13 16:17	3010675
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	01/30/13 14:30	01/30/13 16:17	3010675
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	01/30/13 14:30	01/30/13 16:17	3010675
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	01/30/13 14:30	01/30/13 16:17	3010675
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	01/30/13 14:30	01/30/13 16:17	3010675
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	01/30/13 14:30	01/30/13 16:17	3010675
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	01/30/13 14:30	01/30/13 16:17	3010675
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	01/30/13 14:30	01/30/13 16:17	3010675
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	156-60-5	01/30/13 14:30	01/30/13 16:17	3010675
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	01/30/13 14:30	01/30/13 16:17	3010675
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-01-5	01/30/13 14:30	01/30/13 16:17	3010675

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW9
Lab No: AWA0838-04
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 14:55
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-02-6	01/30/13 14:30	01/30/13 16:17	3010675
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-41-4	01/30/13 14:30	01/30/13 16:17	3010675
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.8	74-88-4	01/30/13 14:30	01/30/13 16:17	3010675
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.3	591-78-6	01/30/13 14:30	01/30/13 16:17	3010675
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-09-2	01/30/13 14:30	01/30/13 16:17	3010675
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	78-93-3	01/30/13 14:30	01/30/13 16:17	3010675
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	108-10-1	01/30/13 14:30	01/30/13 16:17	3010675
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	100-42-5	01/30/13 14:30	01/30/13 16:17	3010675
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	01/30/13 14:30	01/30/13 16:17	3010675
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	79-34-5	01/30/13 14:30	01/30/13 16:17	3010675
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	127-18-4	01/30/13 14:30	01/30/13 16:17	3010675
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	01/30/13 14:30	01/30/13 16:17	3010675
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	01/30/13 14:30	01/30/13 16:17	3010675
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-00-5	01/30/13 14:30	01/30/13 16:17	3010675
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	79-01-6	01/30/13 14:30	01/30/13 16:17	3010675
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-69-4	01/30/13 14:30	01/30/13 16:17	3010675
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	96-18-4	01/30/13 14:30	01/30/13 16:17	3010675
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.3	108-05-4	01/30/13 14:30	01/30/13 16:17	3010675
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	01/30/13 14:30	01/30/13 16:17	3010675
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.8	1330-20-7	01/30/13 14:30	01/30/13 16:17	3010675
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	97 %		80-120				1868-53-7	01/30/13 14:30	01/30/13 16:17	3010675

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW9
Lab No: AWA0838-04
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 14:55
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	101 %		78-120				17060-07-0	01/30/13 14:30	01/30/13 16:17	3010675
Surr: Toluene-d8	EPA 8260B	EPA 5030B	98 %		80-120				2037-26-5	01/30/13 14:30	01/30/13 16:17	3010675
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	99 %		80-120				460-00-4	01/30/13 14:30	01/30/13 16:17	3010675

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1220 Commerce Street, SW
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Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW10
Lab No: AWA0838-05
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 14:39
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		0.19	7440-36-0	01/31/13 09:00	01/31/13 22:07	3010695
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.20	7440-38-2	01/31/13 09:00	01/31/13 22:07	3010695
Barium	EPA 6020A	EPA 3005A	107	100	1	ug/L		0.49	7440-39-3	01/31/13 09:00	01/31/13 22:07	3010695
Beryllium	EPA 6020A	EPA 3005A	0.22	1.00	1	ug/L	J	0.09	7440-41-7	01/31/13 09:00	01/31/13 22:07	3010695
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	01/31/13 09:00	01/31/13 22:07	3010695
Chromium	EPA 6020A	EPA 3005A	1.27	10.0	1	ug/L	J	0.71	7440-47-3	01/31/13 09:00	01/31/13 22:07	3010695
Cobalt	EPA 6020A	EPA 3005A	3.22	10.0	1	ug/L	J	0.17	7440-48-4	01/31/13 09:00	01/31/13 22:07	3010695
Copper	EPA 6020A	EPA 3005A	1.45	10.0	1	ug/L	J	0.18	7440-50-8	01/31/13 09:00	01/31/13 22:07	3010695
Lead	EPA 6020A	EPA 3005A	0.52	10.0	1	ug/L	J	0.09	7439-92-1	01/31/13 09:00	01/31/13 22:07	3010695
Nickel	EPA 6020A	EPA 3005A	5.06	50.0	1	ug/L	J	0.18	7440-02-0	01/31/13 09:00	01/31/13 22:07	3010695
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.54	7782-49-2	01/31/13 09:00	01/31/13 22:07	3010695
Silver	EPA 6020A	EPA 3005A	1.17	10.0	1	ug/L	J	0.10	7440-22-4	01/31/13 09:00	01/31/13 22:07	3010695
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.23	7440-28-0	01/31/13 09:00	01/31/13 22:07	3010695
Vanadium	EPA 6020A	EPA 3005A	ND	25.0	1	ug/L		1.70	7440-62-2	01/31/13 09:00	01/31/13 22:07	3010695
Zinc	EPA 6020A	EPA 3005A	3.84	10.0	1	ug/L	J	0.27	7440-66-6	01/31/13 09:00	01/31/13 22:07	3010695
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		6.1	67-64-1	01/30/13 14:30	01/30/13 16:45	3010675
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.9	107-13-1	01/30/13 14:30	01/30/13 16:45	3010675
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	71-43-2	01/30/13 14:30	01/30/13 16:45	3010675
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	01/30/13 14:30	01/30/13 16:45	3010675
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-27-4	01/30/13 14:30	01/30/13 16:45	3010675

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW10
Lab No: AWA0838-05
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 14:39
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.0	75-25-2	01/30/13 14:30	01/30/13 16:45	3010675
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		2.0	74-83-9	01/30/13 14:30	01/30/13 16:45	3010675
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	75-15-0	01/30/13 14:30	01/30/13 16:45	3010675
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	56-23-5	01/30/13 14:30	01/30/13 16:45	3010675
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	01/30/13 14:30	01/30/13 16:45	3010675
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	75-00-3	01/30/13 14:30	01/30/13 16:45	3010675
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	67-66-3	01/30/13 14:30	01/30/13 16:45	3010675
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	74-87-3	01/30/13 14:30	01/30/13 16:45	3010675
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.3	124-48-1	01/30/13 14:30	01/30/13 16:45	3010675
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	01/30/13 14:30	01/30/13 16:45	3010675
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	01/30/13 14:30	01/30/13 16:45	3010675
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	01/30/13 14:30	01/30/13 16:45	3010675
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	01/30/13 14:30	01/30/13 16:45	3010675
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	01/30/13 14:30	01/30/13 16:45	3010675
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	01/30/13 14:30	01/30/13 16:45	3010675
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	01/30/13 14:30	01/30/13 16:45	3010675
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	01/30/13 14:30	01/30/13 16:45	3010675
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	01/30/13 14:30	01/30/13 16:45	3010675
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	01/30/13 14:30	01/30/13 16:45	3010675
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	156-60-5	01/30/13 14:30	01/30/13 16:45	3010675
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	01/30/13 14:30	01/30/13 16:45	3010675
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-01-5	01/30/13 14:30	01/30/13 16:45	3010675

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1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW10
Lab No: AWA0838-05
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 14:39
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-02-6	01/30/13 14:30	01/30/13 16:45	3010675
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-41-4	01/30/13 14:30	01/30/13 16:45	3010675
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.8	74-88-4	01/30/13 14:30	01/30/13 16:45	3010675
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.3	591-78-6	01/30/13 14:30	01/30/13 16:45	3010675
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-09-2	01/30/13 14:30	01/30/13 16:45	3010675
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	78-93-3	01/30/13 14:30	01/30/13 16:45	3010675
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	108-10-1	01/30/13 14:30	01/30/13 16:45	3010675
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	100-42-5	01/30/13 14:30	01/30/13 16:45	3010675
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	01/30/13 14:30	01/30/13 16:45	3010675
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	79-34-5	01/30/13 14:30	01/30/13 16:45	3010675
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	127-18-4	01/30/13 14:30	01/30/13 16:45	3010675
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	01/30/13 14:30	01/30/13 16:45	3010675
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	01/30/13 14:30	01/30/13 16:45	3010675
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-00-5	01/30/13 14:30	01/30/13 16:45	3010675
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	79-01-6	01/30/13 14:30	01/30/13 16:45	3010675
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-69-4	01/30/13 14:30	01/30/13 16:45	3010675
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	96-18-4	01/30/13 14:30	01/30/13 16:45	3010675
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.3	108-05-4	01/30/13 14:30	01/30/13 16:45	3010675
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	01/30/13 14:30	01/30/13 16:45	3010675
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.8	1330-20-7	01/30/13 14:30	01/30/13 16:45	3010675
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	96 %		80-120				1868-53-7	01/30/13 14:30	01/30/13 16:45	3010675

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Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW10
Lab No: AWA0838-05
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 14:39
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	101 %		78-120				17060-07-0	01/30/13 14:30	01/30/13 16:45	3010675
Surr: Toluene-d8	EPA 8260B	EPA 5030B	100 %		80-120				2037-26-5	01/30/13 14:30	01/30/13 16:45	3010675
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	100 %		80-120				460-00-4	01/30/13 14:30	01/30/13 16:45	3010675

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW11
Lab No: AWA0838-06
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 14:16
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		0.19	7440-36-0	01/31/13 09:00	01/31/13 22:24	3010695
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.20	7440-38-2	01/31/13 09:00	01/31/13 22:24	3010695
Barium	EPA 6020A	EPA 3005A	19.2	100	1	ug/L	J	0.49	7440-39-3	01/31/13 09:00	01/31/13 22:24	3010695
Beryllium	EPA 6020A	EPA 3005A	0.23	1.00	1	ug/L	J	0.09	7440-41-7	01/31/13 09:00	01/31/13 22:24	3010695
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	01/31/13 09:00	01/31/13 22:24	3010695
Chromium	EPA 6020A	EPA 3005A	5.98	10.0	1	ug/L	J	0.71	7440-47-3	01/31/13 09:00	01/31/13 22:24	3010695
Cobalt	EPA 6020A	EPA 3005A	0.82	10.0	1	ug/L	J	0.17	7440-48-4	01/31/13 09:00	01/31/13 22:24	3010695
Copper	EPA 6020A	EPA 3005A	1.15	10.0	1	ug/L	J	0.18	7440-50-8	01/31/13 09:00	01/31/13 22:24	3010695
Lead	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.09	7439-92-1	01/31/13 09:00	01/31/13 22:24	3010695
Nickel	EPA 6020A	EPA 3005A	2.37	50.0	1	ug/L	J	0.18	7440-02-0	01/31/13 09:00	01/31/13 22:24	3010695
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.54	7782-49-2	01/31/13 09:00	01/31/13 22:24	3010695
Silver	EPA 6020A	EPA 3005A	0.86	10.0	1	ug/L	J	0.10	7440-22-4	01/31/13 09:00	01/31/13 22:24	3010695
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.23	7440-28-0	01/31/13 09:00	01/31/13 22:24	3010695
Vanadium	EPA 6020A	EPA 3005A	ND	25.0	1	ug/L		1.70	7440-62-2	01/31/13 09:00	01/31/13 22:24	3010695
Zinc	EPA 6020A	EPA 3005A	1.55	10.0	1	ug/L	J	0.27	7440-66-6	01/31/13 09:00	01/31/13 22:24	3010695
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		6.1	67-64-1	01/30/13 14:30	01/30/13 17:13	3010675
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.9	107-13-1	01/30/13 14:30	01/30/13 17:13	3010675
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	71-43-2	01/30/13 14:30	01/30/13 17:13	3010675
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	01/30/13 14:30	01/30/13 17:13	3010675
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-27-4	01/30/13 14:30	01/30/13 17:13	3010675

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW11
Lab No: AWA0838-06
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 14:16
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.0	75-25-2	01/30/13 14:30	01/30/13 17:13	3010675
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		2.0	74-83-9	01/30/13 14:30	01/30/13 17:13	3010675
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	75-15-0	01/30/13 14:30	01/30/13 17:13	3010675
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	56-23-5	01/30/13 14:30	01/30/13 17:13	3010675
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	01/30/13 14:30	01/30/13 17:13	3010675
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	75-00-3	01/30/13 14:30	01/30/13 17:13	3010675
Chloroform	EPA 8260B	EPA 5030B	0.5	5.0	1	ug/L	J	0.4	67-66-3	01/30/13 14:30	01/30/13 17:13	3010675
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	74-87-3	01/30/13 14:30	01/30/13 17:13	3010675
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.3	124-48-1	01/30/13 14:30	01/30/13 17:13	3010675
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	01/30/13 14:30	01/30/13 17:13	3010675
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	01/30/13 14:30	01/30/13 17:13	3010675
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	01/30/13 14:30	01/30/13 17:13	3010675
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	01/30/13 14:30	01/30/13 17:13	3010675
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	01/30/13 14:30	01/30/13 17:13	3010675
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	01/30/13 14:30	01/30/13 17:13	3010675
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	01/30/13 14:30	01/30/13 17:13	3010675
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	01/30/13 14:30	01/30/13 17:13	3010675
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	01/30/13 14:30	01/30/13 17:13	3010675
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	01/30/13 14:30	01/30/13 17:13	3010675
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	156-60-5	01/30/13 14:30	01/30/13 17:13	3010675
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	01/30/13 14:30	01/30/13 17:13	3010675
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-01-5	01/30/13 14:30	01/30/13 17:13	3010675

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110 Technology Parkway, Norcross, GA 30092

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW11
Lab No: AWA0838-06
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 14:16
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-02-6	01/30/13 14:30	01/30/13 17:13	3010675
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-41-4	01/30/13 14:30	01/30/13 17:13	3010675
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.8	74-88-4	01/30/13 14:30	01/30/13 17:13	3010675
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.3	591-78-6	01/30/13 14:30	01/30/13 17:13	3010675
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-09-2	01/30/13 14:30	01/30/13 17:13	3010675
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	78-93-3	01/30/13 14:30	01/30/13 17:13	3010675
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	108-10-1	01/30/13 14:30	01/30/13 17:13	3010675
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	100-42-5	01/30/13 14:30	01/30/13 17:13	3010675
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	01/30/13 14:30	01/30/13 17:13	3010675
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	79-34-5	01/30/13 14:30	01/30/13 17:13	3010675
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	127-18-4	01/30/13 14:30	01/30/13 17:13	3010675
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	01/30/13 14:30	01/30/13 17:13	3010675
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	01/30/13 14:30	01/30/13 17:13	3010675
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-00-5	01/30/13 14:30	01/30/13 17:13	3010675
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	79-01-6	01/30/13 14:30	01/30/13 17:13	3010675
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-69-4	01/30/13 14:30	01/30/13 17:13	3010675
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	96-18-4	01/30/13 14:30	01/30/13 17:13	3010675
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.3	108-05-4	01/30/13 14:30	01/30/13 17:13	3010675
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	01/30/13 14:30	01/30/13 17:13	3010675
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.8	1330-20-7	01/30/13 14:30	01/30/13 17:13	3010675
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	96 %		80-120				1868-53-7	01/30/13 14:30	01/30/13 17:13	3010675

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Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW11
Lab No: AWA0838-06
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 14:16
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	102 %		78-120				17060-07-0	01/30/13 14:30	01/30/13 17:13	3010675
Surr: Toluene-d8	EPA 8260B	EPA 5030B	99 %		80-120				2037-26-5	01/30/13 14:30	01/30/13 17:13	3010675
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	98 %		80-120				460-00-4	01/30/13 14:30	01/30/13 17:13	3010675

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW13
Lab No: AWA0838-07
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 13:59
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		0.19	7440-36-0	01/31/13 09:00	01/31/13 22:30	3010695
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.20	7440-38-2	01/31/13 09:00	01/31/13 22:30	3010695
Barium	EPA 6020A	EPA 3005A	331	100	1	ug/L		0.49	7440-39-3	01/31/13 09:00	01/31/13 22:30	3010695
Beryllium	EPA 6020A	EPA 3005A	0.52	1.00	1	ug/L	J	0.09	7440-41-7	01/31/13 09:00	01/31/13 22:30	3010695
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	01/31/13 09:00	01/31/13 22:30	3010695
Chromium	EPA 6020A	EPA 3005A	0.75	10.0	1	ug/L	J	0.71	7440-47-3	01/31/13 09:00	01/31/13 22:30	3010695
Cobalt	EPA 6020A	EPA 3005A	3.28	10.0	1	ug/L	J	0.17	7440-48-4	01/31/13 09:00	01/31/13 22:30	3010695
Copper	EPA 6020A	EPA 3005A	0.84	10.0	1	ug/L	J	0.18	7440-50-8	01/31/13 09:00	01/31/13 22:30	3010695
Lead	EPA 6020A	EPA 3005A	0.24	10.0	1	ug/L	J	0.09	7439-92-1	01/31/13 09:00	01/31/13 22:30	3010695
Nickel	EPA 6020A	EPA 3005A	3.48	50.0	1	ug/L	J	0.18	7440-02-0	01/31/13 09:00	01/31/13 22:30	3010695
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.54	7782-49-2	01/31/13 09:00	01/31/13 22:30	3010695
Silver	EPA 6020A	EPA 3005A	1.09	10.0	1	ug/L	J	0.10	7440-22-4	01/31/13 09:00	01/31/13 22:30	3010695
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.23	7440-28-0	01/31/13 09:00	01/31/13 22:30	3010695
Vanadium	EPA 6020A	EPA 3005A	ND	25.0	1	ug/L		1.70	7440-62-2	01/31/13 09:00	01/31/13 22:30	3010695
Zinc	EPA 6020A	EPA 3005A	5.26	10.0	1	ug/L	J	0.27	7440-66-6	01/31/13 09:00	01/31/13 22:30	3010695
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		6.1	67-64-1	01/30/13 14:30	01/30/13 17:41	3010675
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.9	107-13-1	01/30/13 14:30	01/30/13 17:41	3010675
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	71-43-2	01/30/13 14:30	01/30/13 17:41	3010675
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	01/30/13 14:30	01/30/13 17:41	3010675
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-27-4	01/30/13 14:30	01/30/13 17:41	3010675

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW13
Lab No: AWA0838-07
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 13:59
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.0	75-25-2	01/30/13 14:30	01/30/13 17:41	3010675
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		2.0	74-83-9	01/30/13 14:30	01/30/13 17:41	3010675
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	75-15-0	01/30/13 14:30	01/30/13 17:41	3010675
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	56-23-5	01/30/13 14:30	01/30/13 17:41	3010675
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	01/30/13 14:30	01/30/13 17:41	3010675
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	75-00-3	01/30/13 14:30	01/30/13 17:41	3010675
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	67-66-3	01/30/13 14:30	01/30/13 17:41	3010675
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	74-87-3	01/30/13 14:30	01/30/13 17:41	3010675
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.3	124-48-1	01/30/13 14:30	01/30/13 17:41	3010675
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	01/30/13 14:30	01/30/13 17:41	3010675
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	01/30/13 14:30	01/30/13 17:41	3010675
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	01/30/13 14:30	01/30/13 17:41	3010675
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	01/30/13 14:30	01/30/13 17:41	3010675
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	01/30/13 14:30	01/30/13 17:41	3010675
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	01/30/13 14:30	01/30/13 17:41	3010675
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	01/30/13 14:30	01/30/13 17:41	3010675
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	01/30/13 14:30	01/30/13 17:41	3010675
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	01/30/13 14:30	01/30/13 17:41	3010675
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	01/30/13 14:30	01/30/13 17:41	3010675
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	156-60-5	01/30/13 14:30	01/30/13 17:41	3010675
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	01/30/13 14:30	01/30/13 17:41	3010675
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-01-5	01/30/13 14:30	01/30/13 17:41	3010675

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW13
Lab No: AWA0838-07
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 13:59
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-02-6	01/30/13 14:30	01/30/13 17:41	3010675
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-41-4	01/30/13 14:30	01/30/13 17:41	3010675
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.8	74-88-4	01/30/13 14:30	01/30/13 17:41	3010675
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.3	591-78-6	01/30/13 14:30	01/30/13 17:41	3010675
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-09-2	01/30/13 14:30	01/30/13 17:41	3010675
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	78-93-3	01/30/13 14:30	01/30/13 17:41	3010675
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	108-10-1	01/30/13 14:30	01/30/13 17:41	3010675
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	100-42-5	01/30/13 14:30	01/30/13 17:41	3010675
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	01/30/13 14:30	01/30/13 17:41	3010675
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	79-34-5	01/30/13 14:30	01/30/13 17:41	3010675
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	127-18-4	01/30/13 14:30	01/30/13 17:41	3010675
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	01/30/13 14:30	01/30/13 17:41	3010675
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	01/30/13 14:30	01/30/13 17:41	3010675
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-00-5	01/30/13 14:30	01/30/13 17:41	3010675
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	79-01-6	01/30/13 14:30	01/30/13 17:41	3010675
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-69-4	01/30/13 14:30	01/30/13 17:41	3010675
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	96-18-4	01/30/13 14:30	01/30/13 17:41	3010675
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.3	108-05-4	01/30/13 14:30	01/30/13 17:41	3010675
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	01/30/13 14:30	01/30/13 17:41	3010675
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.8	1330-20-7	01/30/13 14:30	01/30/13 17:41	3010675
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	95 %		80-120				1868-53-7	01/30/13 14:30	01/30/13 17:41	3010675

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ANALYTICAL SERVICES, INC.

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110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW13
Lab No: AWA0838-07
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 13:59
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	101 %		78-120				17060-07-0	01/30/13 14:30	01/30/13 17:41	3010675
Surr: Toluene-d8	EPA 8260B	EPA 5030B	98 %		80-120				2037-26-5	01/30/13 14:30	01/30/13 17:41	3010675
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	99 %		80-120				460-00-4	01/30/13 14:30	01/30/13 17:41	3010675

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW15
Lab No: AWA0838-08
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 13:40
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		0.19	7440-36-0	01/31/13 09:00	01/31/13 22:36	3010695
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.20	7440-38-2	01/31/13 09:00	01/31/13 22:36	3010695
Barium	EPA 6020A	EPA 3005A	125	100	1	ug/L		0.49	7440-39-3	01/31/13 09:00	01/31/13 22:36	3010695
Beryllium	EPA 6020A	EPA 3005A	0.27	1.00	1	ug/L	J	0.09	7440-41-7	01/31/13 09:00	01/31/13 22:36	3010695
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	01/31/13 09:00	01/31/13 22:36	3010695
Chromium	EPA 6020A	EPA 3005A	2.24	10.0	1	ug/L	J	0.71	7440-47-3	01/31/13 09:00	01/31/13 22:36	3010695
Cobalt	EPA 6020A	EPA 3005A	3.13	10.0	1	ug/L	J	0.17	7440-48-4	01/31/13 09:00	01/31/13 22:36	3010695
Copper	EPA 6020A	EPA 3005A	1.19	10.0	1	ug/L	J	0.18	7440-50-8	01/31/13 09:00	01/31/13 22:36	3010695
Lead	EPA 6020A	EPA 3005A	0.11	10.0	1	ug/L	J	0.09	7439-92-1	01/31/13 09:00	01/31/13 22:36	3010695
Nickel	EPA 6020A	EPA 3005A	3.57	50.0	1	ug/L	J	0.18	7440-02-0	01/31/13 09:00	01/31/13 22:36	3010695
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.54	7782-49-2	01/31/13 09:00	01/31/13 22:36	3010695
Silver	EPA 6020A	EPA 3005A	0.17	10.0	1	ug/L	J	0.10	7440-22-4	01/31/13 09:00	01/31/13 22:36	3010695
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.23	7440-28-0	01/31/13 09:00	01/31/13 22:36	3010695
Vanadium	EPA 6020A	EPA 3005A	ND	25.0	1	ug/L		1.70	7440-62-2	01/31/13 09:00	01/31/13 22:36	3010695
Zinc	EPA 6020A	EPA 3005A	3.96	10.0	1	ug/L	J	0.27	7440-66-6	01/31/13 09:00	01/31/13 22:36	3010695
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		6.1	67-64-1	01/30/13 14:30	01/30/13 18:10	3010675
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.9	107-13-1	01/30/13 14:30	01/30/13 18:10	3010675
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	71-43-2	01/30/13 14:30	01/30/13 18:10	3010675
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	01/30/13 14:30	01/30/13 18:10	3010675
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-27-4	01/30/13 14:30	01/30/13 18:10	3010675

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Environmental Monitoring & Laboratory Analysis
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(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW15
Lab No: AWA0838-08
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 13:40
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.0	75-25-2	01/30/13 14:30	01/30/13 18:10	3010675
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		2.0	74-83-9	01/30/13 14:30	01/30/13 18:10	3010675
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	75-15-0	01/30/13 14:30	01/30/13 18:10	3010675
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	56-23-5	01/30/13 14:30	01/30/13 18:10	3010675
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	01/30/13 14:30	01/30/13 18:10	3010675
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	75-00-3	01/30/13 14:30	01/30/13 18:10	3010675
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	67-66-3	01/30/13 14:30	01/30/13 18:10	3010675
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	74-87-3	01/30/13 14:30	01/30/13 18:10	3010675
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.3	124-48-1	01/30/13 14:30	01/30/13 18:10	3010675
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	01/30/13 14:30	01/30/13 18:10	3010675
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	01/30/13 14:30	01/30/13 18:10	3010675
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	01/30/13 14:30	01/30/13 18:10	3010675
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	01/30/13 14:30	01/30/13 18:10	3010675
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	01/30/13 14:30	01/30/13 18:10	3010675
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	01/30/13 14:30	01/30/13 18:10	3010675
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	01/30/13 14:30	01/30/13 18:10	3010675
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	01/30/13 14:30	01/30/13 18:10	3010675
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	01/30/13 14:30	01/30/13 18:10	3010675
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	01/30/13 14:30	01/30/13 18:10	3010675
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	156-60-5	01/30/13 14:30	01/30/13 18:10	3010675
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	01/30/13 14:30	01/30/13 18:10	3010675
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-01-5	01/30/13 14:30	01/30/13 18:10	3010675

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW15
Lab No: AWA0838-08
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 13:40
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-02-6	01/30/13 14:30	01/30/13 18:10	3010675
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-41-4	01/30/13 14:30	01/30/13 18:10	3010675
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.8	74-88-4	01/30/13 14:30	01/30/13 18:10	3010675
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.3	591-78-6	01/30/13 14:30	01/30/13 18:10	3010675
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-09-2	01/30/13 14:30	01/30/13 18:10	3010675
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	78-93-3	01/30/13 14:30	01/30/13 18:10	3010675
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	108-10-1	01/30/13 14:30	01/30/13 18:10	3010675
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	100-42-5	01/30/13 14:30	01/30/13 18:10	3010675
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	01/30/13 14:30	01/30/13 18:10	3010675
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	79-34-5	01/30/13 14:30	01/30/13 18:10	3010675
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	127-18-4	01/30/13 14:30	01/30/13 18:10	3010675
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	01/30/13 14:30	01/30/13 18:10	3010675
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	01/30/13 14:30	01/30/13 18:10	3010675
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-00-5	01/30/13 14:30	01/30/13 18:10	3010675
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	79-01-6	01/30/13 14:30	01/30/13 18:10	3010675
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-69-4	01/30/13 14:30	01/30/13 18:10	3010675
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	96-18-4	01/30/13 14:30	01/30/13 18:10	3010675
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.3	108-05-4	01/30/13 14:30	01/30/13 18:10	3010675
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	01/30/13 14:30	01/30/13 18:10	3010675
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.8	1330-20-7	01/30/13 14:30	01/30/13 18:10	3010675
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	97 %		80-120				1868-53-7	01/30/13 14:30	01/30/13 18:10	3010675

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW15
Lab No: AWA0838-08
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 13:40
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	103 %		78-120				17060-07-0	01/30/13 14:30	01/30/13 18:10	3010675
Surr: Toluene-d8	EPA 8260B	EPA 5030B	100 %		80-120				2037-26-5	01/30/13 14:30	01/30/13 18:10	3010675
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	98 %		80-120				460-00-4	01/30/13 14:30	01/30/13 18:10	3010675

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW16R
Lab No: AWA0838-09
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/29/13 11:17
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		0.19	7440-36-0	01/31/13 09:00	01/31/13 22:42	3010695
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.20	7440-38-2	01/31/13 09:00	01/31/13 22:42	3010695
Barium	EPA 6020A	EPA 3005A	46.3	100	1	ug/L	J	0.49	7440-39-3	01/31/13 09:00	01/31/13 22:42	3010695
Beryllium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.09	7440-41-7	01/31/13 09:00	01/31/13 22:42	3010695
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	01/31/13 09:00	01/31/13 22:42	3010695
Chromium	EPA 6020A	EPA 3005A	0.78	10.0	1	ug/L	J	0.71	7440-47-3	01/31/13 09:00	01/31/13 22:42	3010695
Cobalt	EPA 6020A	EPA 3005A	1.83	10.0	1	ug/L	J	0.17	7440-48-4	01/31/13 09:00	01/31/13 22:42	3010695
Copper	EPA 6020A	EPA 3005A	0.46	10.0	1	ug/L	J	0.18	7440-50-8	01/31/13 09:00	01/31/13 22:42	3010695
Lead	EPA 6020A	EPA 3005A	0.36	10.0	1	ug/L	J	0.09	7439-92-1	01/31/13 09:00	01/31/13 22:42	3010695
Nickel	EPA 6020A	EPA 3005A	0.74	50.0	1	ug/L	J	0.18	7440-02-0	01/31/13 09:00	01/31/13 22:42	3010695
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.54	7782-49-2	01/31/13 09:00	01/31/13 22:42	3010695
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.10	7440-22-4	01/31/13 09:00	01/31/13 22:42	3010695
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.23	7440-28-0	01/31/13 09:00	01/31/13 22:42	3010695
Vanadium	EPA 6020A	EPA 3005A	ND	25.0	1	ug/L		1.70	7440-62-2	01/31/13 09:00	01/31/13 22:42	3010695
Zinc	EPA 6020A	EPA 3005A	2.93	10.0	1	ug/L	J	0.27	7440-66-6	01/31/13 09:00	01/31/13 22:42	3010695
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		6.1	67-64-1	01/30/13 14:30	01/30/13 18:38	3010675
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.9	107-13-1	01/30/13 14:30	01/30/13 18:38	3010675
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	71-43-2	01/30/13 14:30	01/30/13 18:38	3010675
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	01/30/13 14:30	01/30/13 18:38	3010675
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-27-4	01/30/13 14:30	01/30/13 18:38	3010675

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW16R
Lab No: AWA0838-09
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/29/13 11:17
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.0	75-25-2	01/30/13 14:30	01/30/13 18:38	3010675
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		2.0	74-83-9	01/30/13 14:30	01/30/13 18:38	3010675
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	75-15-0	01/30/13 14:30	01/30/13 18:38	3010675
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	56-23-5	01/30/13 14:30	01/30/13 18:38	3010675
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	01/30/13 14:30	01/30/13 18:38	3010675
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	75-00-3	01/30/13 14:30	01/30/13 18:38	3010675
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	67-66-3	01/30/13 14:30	01/30/13 18:38	3010675
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	74-87-3	01/30/13 14:30	01/30/13 18:38	3010675
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.3	124-48-1	01/30/13 14:30	01/30/13 18:38	3010675
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	01/30/13 14:30	01/30/13 18:38	3010675
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	01/30/13 14:30	01/30/13 18:38	3010675
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	01/30/13 14:30	01/30/13 18:38	3010675
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	01/30/13 14:30	01/30/13 18:38	3010675
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	01/30/13 14:30	01/30/13 18:38	3010675
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	01/30/13 14:30	01/30/13 18:38	3010675
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	01/30/13 14:30	01/30/13 18:38	3010675
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	01/30/13 14:30	01/30/13 18:38	3010675
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	01/30/13 14:30	01/30/13 18:38	3010675
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	01/30/13 14:30	01/30/13 18:38	3010675
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	156-60-5	01/30/13 14:30	01/30/13 18:38	3010675
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	01/30/13 14:30	01/30/13 18:38	3010675
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-01-5	01/30/13 14:30	01/30/13 18:38	3010675

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1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW16R
Lab No: AWA0838-09
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/29/13 11:17
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-02-6	01/30/13 14:30	01/30/13 18:38	3010675
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-41-4	01/30/13 14:30	01/30/13 18:38	3010675
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.8	74-88-4	01/30/13 14:30	01/30/13 18:38	3010675
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.3	591-78-6	01/30/13 14:30	01/30/13 18:38	3010675
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-09-2	01/30/13 14:30	01/30/13 18:38	3010675
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	78-93-3	01/30/13 14:30	01/30/13 18:38	3010675
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	108-10-1	01/30/13 14:30	01/30/13 18:38	3010675
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	100-42-5	01/30/13 14:30	01/30/13 18:38	3010675
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	01/30/13 14:30	01/30/13 18:38	3010675
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	79-34-5	01/30/13 14:30	01/30/13 18:38	3010675
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	127-18-4	01/30/13 14:30	01/30/13 18:38	3010675
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	01/30/13 14:30	01/30/13 18:38	3010675
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	01/30/13 14:30	01/30/13 18:38	3010675
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-00-5	01/30/13 14:30	01/30/13 18:38	3010675
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	79-01-6	01/30/13 14:30	01/30/13 18:38	3010675
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-69-4	01/30/13 14:30	01/30/13 18:38	3010675
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	96-18-4	01/30/13 14:30	01/30/13 18:38	3010675
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.3	108-05-4	01/30/13 14:30	01/30/13 18:38	3010675
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	01/30/13 14:30	01/30/13 18:38	3010675
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.8	1330-20-7	01/30/13 14:30	01/30/13 18:38	3010675
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	96 %		80-120				1868-53-7	01/30/13 14:30	01/30/13 18:38	3010675

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1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW16R
Lab No: AWA0838-09
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/29/13 11:17
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	103 %		78-120				17060-07-0	01/30/13 14:30	01/30/13 18:38	3010675
Surr: Toluene-d8	EPA 8260B	EPA 5030B	99 %		80-120				2037-26-5	01/30/13 14:30	01/30/13 18:38	3010675
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	98 %		80-120				460-00-4	01/30/13 14:30	01/30/13 18:38	3010675

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1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW17
Lab No: AWA0838-10
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/29/13 10:57
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		0.19	7440-36-0	01/31/13 09:00	01/31/13 22:48	3010695
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.20	7440-38-2	01/31/13 09:00	01/31/13 22:48	3010695
Barium	EPA 6020A	EPA 3005A	140	100	1	ug/L		0.49	7440-39-3	01/31/13 09:00	01/31/13 22:48	3010695
Beryllium	EPA 6020A	EPA 3005A	0.35	1.00	1	ug/L	J	0.09	7440-41-7	01/31/13 09:00	01/31/13 22:48	3010695
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	01/31/13 09:00	01/31/13 22:48	3010695
Chromium	EPA 6020A	EPA 3005A	3.08	10.0	1	ug/L	J	0.71	7440-47-3	01/31/13 09:00	01/31/13 22:48	3010695
Cobalt	EPA 6020A	EPA 3005A	3.49	10.0	1	ug/L	J	0.17	7440-48-4	01/31/13 09:00	01/31/13 22:48	3010695
Copper	EPA 6020A	EPA 3005A	1.74	10.0	1	ug/L	J	0.18	7440-50-8	01/31/13 09:00	01/31/13 22:48	3010695
Lead	EPA 6020A	EPA 3005A	2.73	10.0	1	ug/L	J	0.09	7439-92-1	01/31/13 09:00	01/31/13 22:48	3010695
Nickel	EPA 6020A	EPA 3005A	1.70	50.0	1	ug/L	J	0.18	7440-02-0	01/31/13 09:00	01/31/13 22:48	3010695
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.54	7782-49-2	01/31/13 09:00	01/31/13 22:48	3010695
Silver	EPA 6020A	EPA 3005A	2.13	10.0	1	ug/L	J	0.10	7440-22-4	01/31/13 09:00	01/31/13 22:48	3010695
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.23	7440-28-0	01/31/13 09:00	01/31/13 22:48	3010695
Vanadium	EPA 6020A	EPA 3005A	6.45	25.0	1	ug/L	B-01, J	1.70	7440-62-2	01/31/13 09:00	01/31/13 22:48	3010695
Zinc	EPA 6020A	EPA 3005A	5.01	10.0	1	ug/L	J	0.27	7440-66-6	01/31/13 09:00	01/31/13 22:48	3010695
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		6.1	67-64-1	01/30/13 14:30	01/30/13 19:06	3010675
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.9	107-13-1	01/30/13 14:30	01/30/13 19:06	3010675
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	71-43-2	01/30/13 14:30	01/30/13 19:06	3010675
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	01/30/13 14:30	01/30/13 19:06	3010675
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-27-4	01/30/13 14:30	01/30/13 19:06	3010675

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Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW17
Lab No: AWA0838-10
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/29/13 10:57
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.0	75-25-2	01/30/13 14:30	01/30/13 19:06	3010675
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		2.0	74-83-9	01/30/13 14:30	01/30/13 19:06	3010675
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	75-15-0	01/30/13 14:30	01/30/13 19:06	3010675
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	56-23-5	01/30/13 14:30	01/30/13 19:06	3010675
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	01/30/13 14:30	01/30/13 19:06	3010675
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	75-00-3	01/30/13 14:30	01/30/13 19:06	3010675
Chloroform	EPA 8260B	EPA 5030B	1.2	5.0	1	ug/L	J	0.4	67-66-3	01/30/13 14:30	01/30/13 19:06	3010675
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	74-87-3	01/30/13 14:30	01/30/13 19:06	3010675
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.3	124-48-1	01/30/13 14:30	01/30/13 19:06	3010675
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	01/30/13 14:30	01/30/13 19:06	3010675
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	01/30/13 14:30	01/30/13 19:06	3010675
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	01/30/13 14:30	01/30/13 19:06	3010675
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	01/30/13 14:30	01/30/13 19:06	3010675
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	01/30/13 14:30	01/30/13 19:06	3010675
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	01/30/13 14:30	01/30/13 19:06	3010675
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	01/30/13 14:30	01/30/13 19:06	3010675
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	01/30/13 14:30	01/30/13 19:06	3010675
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	01/30/13 14:30	01/30/13 19:06	3010675
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	01/30/13 14:30	01/30/13 19:06	3010675
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	156-60-5	01/30/13 14:30	01/30/13 19:06	3010675
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	01/30/13 14:30	01/30/13 19:06	3010675
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-01-5	01/30/13 14:30	01/30/13 19:06	3010675

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW17
Lab No: AWA0838-10
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/29/13 10:57
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-02-6	01/30/13 14:30	01/30/13 19:06	3010675
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-41-4	01/30/13 14:30	01/30/13 19:06	3010675
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.8	74-88-4	01/30/13 14:30	01/30/13 19:06	3010675
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.3	591-78-6	01/30/13 14:30	01/30/13 19:06	3010675
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-09-2	01/30/13 14:30	01/30/13 19:06	3010675
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	78-93-3	01/30/13 14:30	01/30/13 19:06	3010675
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	108-10-1	01/30/13 14:30	01/30/13 19:06	3010675
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	100-42-5	01/30/13 14:30	01/30/13 19:06	3010675
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	01/30/13 14:30	01/30/13 19:06	3010675
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	79-34-5	01/30/13 14:30	01/30/13 19:06	3010675
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	127-18-4	01/30/13 14:30	01/30/13 19:06	3010675
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	01/30/13 14:30	01/30/13 19:06	3010675
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	01/30/13 14:30	01/30/13 19:06	3010675
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-00-5	01/30/13 14:30	01/30/13 19:06	3010675
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	79-01-6	01/30/13 14:30	01/30/13 19:06	3010675
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-69-4	01/30/13 14:30	01/30/13 19:06	3010675
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	96-18-4	01/30/13 14:30	01/30/13 19:06	3010675
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.3	108-05-4	01/30/13 14:30	01/30/13 19:06	3010675
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	01/30/13 14:30	01/30/13 19:06	3010675
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.8	1330-20-7	01/30/13 14:30	01/30/13 19:06	3010675
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	97 %		80-120				1868-53-7	01/30/13 14:30	01/30/13 19:06	3010675

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-GW17
Lab No: AWA0838-10
Matrix: Ground Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/29/13 10:57
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	102 %		78-120				17060-07-0	01/30/13 14:30	01/30/13 19:06	3010675
Surr: Toluene-d8	EPA 8260B	EPA 5030B	99 %		80-120				2037-26-5	01/30/13 14:30	01/30/13 19:06	3010675
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	99 %		80-120				460-00-4	01/30/13 14:30	01/30/13 19:06	3010675

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Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-PW1
Lab No: AWA0838-11
Matrix: Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 11:25
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		0.19	7440-36-0	01/31/13 09:00	01/31/13 22:53	3010695
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.20	7440-38-2	01/31/13 09:00	01/31/13 22:53	3010695
Barium	EPA 6020A	EPA 3005A	58.3	100	1	ug/L	J	0.49	7440-39-3	01/31/13 09:00	01/31/13 22:53	3010695
Beryllium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.09	7440-41-7	01/31/13 09:00	01/31/13 22:53	3010695
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	01/31/13 09:00	01/31/13 22:53	3010695
Chromium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.71	7440-47-3	01/31/13 09:00	01/31/13 22:53	3010695
Cobalt	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.17	7440-48-4	01/31/13 09:00	01/31/13 22:53	3010695
Copper	EPA 6020A	EPA 3005A	5.03	10.0	1	ug/L	J	0.18	7440-50-8	01/31/13 09:00	01/31/13 22:53	3010695
Lead	EPA 6020A	EPA 3005A	0.34	10.0	1	ug/L	J	0.09	7439-92-1	01/31/13 09:00	01/31/13 22:53	3010695
Nickel	EPA 6020A	EPA 3005A	0.20	50.0	1	ug/L	J	0.18	7440-02-0	01/31/13 09:00	01/31/13 22:53	3010695
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.54	7782-49-2	01/31/13 09:00	01/31/13 22:53	3010695
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.10	7440-22-4	01/31/13 09:00	01/31/13 22:53	3010695
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.23	7440-28-0	01/31/13 09:00	01/31/13 22:53	3010695
Vanadium	EPA 6020A	EPA 3005A	ND	25.0	1	ug/L		1.70	7440-62-2	01/31/13 09:00	01/31/13 22:53	3010695
Zinc	EPA 6020A	EPA 3005A	80.2	10.0	1	ug/L		0.27	7440-66-6	01/31/13 09:00	01/31/13 22:53	3010695
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		6.1	67-64-1	01/30/13 14:30	01/30/13 19:34	3010675
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.9	107-13-1	01/30/13 14:30	01/30/13 19:34	3010675
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	71-43-2	01/30/13 14:30	01/30/13 19:34	3010675
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	01/30/13 14:30	01/30/13 19:34	3010675
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-27-4	01/30/13 14:30	01/30/13 19:34	3010675

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-PW1
Lab No: AWA0838-11
Matrix: Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 11:25
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.0	75-25-2	01/30/13 14:30	01/30/13 19:34	3010675
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		2.0	74-83-9	01/30/13 14:30	01/30/13 19:34	3010675
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	75-15-0	01/30/13 14:30	01/30/13 19:34	3010675
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	56-23-5	01/30/13 14:30	01/30/13 19:34	3010675
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	01/30/13 14:30	01/30/13 19:34	3010675
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	75-00-3	01/30/13 14:30	01/30/13 19:34	3010675
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	67-66-3	01/30/13 14:30	01/30/13 19:34	3010675
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	74-87-3	01/30/13 14:30	01/30/13 19:34	3010675
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.3	124-48-1	01/30/13 14:30	01/30/13 19:34	3010675
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	01/30/13 14:30	01/30/13 19:34	3010675
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	01/30/13 14:30	01/30/13 19:34	3010675
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	01/30/13 14:30	01/30/13 19:34	3010675
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	01/30/13 14:30	01/30/13 19:34	3010675
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	01/30/13 14:30	01/30/13 19:34	3010675
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	01/30/13 14:30	01/30/13 19:34	3010675
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	01/30/13 14:30	01/30/13 19:34	3010675
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	01/30/13 14:30	01/30/13 19:34	3010675
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	01/30/13 14:30	01/30/13 19:34	3010675
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	01/30/13 14:30	01/30/13 19:34	3010675
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	156-60-5	01/30/13 14:30	01/30/13 19:34	3010675
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	01/30/13 14:30	01/30/13 19:34	3010675
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-01-5	01/30/13 14:30	01/30/13 19:34	3010675

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-PW1
Lab No: AWA0838-11
Matrix: Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 11:25
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-02-6	01/30/13 14:30	01/30/13 19:34	3010675
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-41-4	01/30/13 14:30	01/30/13 19:34	3010675
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.8	74-88-4	01/30/13 14:30	01/30/13 19:34	3010675
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.3	591-78-6	01/30/13 14:30	01/30/13 19:34	3010675
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-09-2	01/30/13 14:30	01/30/13 19:34	3010675
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	78-93-3	01/30/13 14:30	01/30/13 19:34	3010675
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	108-10-1	01/30/13 14:30	01/30/13 19:34	3010675
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	100-42-5	01/30/13 14:30	01/30/13 19:34	3010675
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	01/30/13 14:30	01/30/13 19:34	3010675
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	79-34-5	01/30/13 14:30	01/30/13 19:34	3010675
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	127-18-4	01/30/13 14:30	01/30/13 19:34	3010675
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	01/30/13 14:30	01/30/13 19:34	3010675
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	01/30/13 14:30	01/30/13 19:34	3010675
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-00-5	01/30/13 14:30	01/30/13 19:34	3010675
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	79-01-6	01/30/13 14:30	01/30/13 19:34	3010675
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-69-4	01/30/13 14:30	01/30/13 19:34	3010675
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	96-18-4	01/30/13 14:30	01/30/13 19:34	3010675
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.3	108-05-4	01/30/13 14:30	01/30/13 19:34	3010675
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	01/30/13 14:30	01/30/13 19:34	3010675
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.8	1330-20-7	01/30/13 14:30	01/30/13 19:34	3010675
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	97 %		80-120				1868-53-7	01/30/13 14:30	01/30/13 19:34	3010675

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-PW1
Lab No: AWA0838-11
Matrix: Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 11:25
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	103 %		78-120				17060-07-0	01/30/13 14:30	01/30/13 19:34	3010675
Surr: Toluene-d8	EPA 8260B	EPA 5030B	99 %		80-120				2037-26-5	01/30/13 14:30	01/30/13 19:34	3010675
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	98 %		80-120				460-00-4	01/30/13 14:30	01/30/13 19:34	3010675

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-SW1
Lab No: AWA0838-12
Matrix: Surface Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 11:00
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		0.19	7440-36-0	01/31/13 09:00	01/31/13 22:59	3010695
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.20	7440-38-2	01/31/13 09:00	01/31/13 22:59	3010695
Barium	EPA 6020A	EPA 3005A	124	100	1	ug/L		0.49	7440-39-3	01/31/13 09:00	01/31/13 22:59	3010695
Beryllium	EPA 6020A	EPA 3005A	0.25	1.00	1	ug/L	J	0.09	7440-41-7	01/31/13 09:00	01/31/13 22:59	3010695
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	01/31/13 09:00	01/31/13 22:59	3010695
Chromium	EPA 6020A	EPA 3005A	1.82	10.0	1	ug/L	J	0.71	7440-47-3	01/31/13 09:00	01/31/13 22:59	3010695
Cobalt	EPA 6020A	EPA 3005A	2.30	10.0	1	ug/L	J	0.17	7440-48-4	01/31/13 09:00	01/31/13 22:59	3010695
Copper	EPA 6020A	EPA 3005A	1.27	10.0	1	ug/L	J	0.18	7440-50-8	01/31/13 09:00	01/31/13 22:59	3010695
Lead	EPA 6020A	EPA 3005A	0.94	10.0	1	ug/L	J	0.09	7439-92-1	01/31/13 09:00	01/31/13 22:59	3010695
Nickel	EPA 6020A	EPA 3005A	2.08	50.0	1	ug/L	J	0.18	7440-02-0	01/31/13 09:00	01/31/13 22:59	3010695
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.54	7782-49-2	01/31/13 09:00	01/31/13 22:59	3010695
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.10	7440-22-4	01/31/13 09:00	01/31/13 22:59	3010695
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.23	7440-28-0	01/31/13 09:00	01/31/13 22:59	3010695
Vanadium	EPA 6020A	EPA 3005A	3.62	25.0	1	ug/L	B-01, J	1.70	7440-62-2	01/31/13 09:00	01/31/13 22:59	3010695
Zinc	EPA 6020A	EPA 3005A	10.9	10.0	1	ug/L		0.27	7440-66-6	01/31/13 09:00	01/31/13 22:59	3010695
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		6.1	67-64-1	01/30/13 14:30	01/30/13 20:03	3010675
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.9	107-13-1	01/30/13 14:30	01/30/13 20:03	3010675
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	71-43-2	01/30/13 14:30	01/30/13 20:03	3010675
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	01/30/13 14:30	01/30/13 20:03	3010675
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-27-4	01/30/13 14:30	01/30/13 20:03	3010675

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-SW1
Lab No: AWA0838-12
Matrix: Surface Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 11:00
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.0	75-25-2	01/30/13 14:30	01/30/13 20:03	3010675
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		2.0	74-83-9	01/30/13 14:30	01/30/13 20:03	3010675
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	75-15-0	01/30/13 14:30	01/30/13 20:03	3010675
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	56-23-5	01/30/13 14:30	01/30/13 20:03	3010675
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	01/30/13 14:30	01/30/13 20:03	3010675
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	75-00-3	01/30/13 14:30	01/30/13 20:03	3010675
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	67-66-3	01/30/13 14:30	01/30/13 20:03	3010675
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	74-87-3	01/30/13 14:30	01/30/13 20:03	3010675
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.3	124-48-1	01/30/13 14:30	01/30/13 20:03	3010675
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	01/30/13 14:30	01/30/13 20:03	3010675
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	01/30/13 14:30	01/30/13 20:03	3010675
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	01/30/13 14:30	01/30/13 20:03	3010675
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	01/30/13 14:30	01/30/13 20:03	3010675
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	01/30/13 14:30	01/30/13 20:03	3010675
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	01/30/13 14:30	01/30/13 20:03	3010675
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	01/30/13 14:30	01/30/13 20:03	3010675
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	01/30/13 14:30	01/30/13 20:03	3010675
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	01/30/13 14:30	01/30/13 20:03	3010675
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	01/30/13 14:30	01/30/13 20:03	3010675
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	156-60-5	01/30/13 14:30	01/30/13 20:03	3010675
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	01/30/13 14:30	01/30/13 20:03	3010675
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-01-5	01/30/13 14:30	01/30/13 20:03	3010675

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110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-SW1
Lab No: AWA0838-12
Matrix: Surface Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 11:00
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-02-6	01/30/13 14:30	01/30/13 20:03	3010675
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-41-4	01/30/13 14:30	01/30/13 20:03	3010675
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.8	74-88-4	01/30/13 14:30	01/30/13 20:03	3010675
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.3	591-78-6	01/30/13 14:30	01/30/13 20:03	3010675
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-09-2	01/30/13 14:30	01/30/13 20:03	3010675
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	78-93-3	01/30/13 14:30	01/30/13 20:03	3010675
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	108-10-1	01/30/13 14:30	01/30/13 20:03	3010675
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	100-42-5	01/30/13 14:30	01/30/13 20:03	3010675
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	01/30/13 14:30	01/30/13 20:03	3010675
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	79-34-5	01/30/13 14:30	01/30/13 20:03	3010675
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	127-18-4	01/30/13 14:30	01/30/13 20:03	3010675
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	01/30/13 14:30	01/30/13 20:03	3010675
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	01/30/13 14:30	01/30/13 20:03	3010675
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-00-5	01/30/13 14:30	01/30/13 20:03	3010675
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	79-01-6	01/30/13 14:30	01/30/13 20:03	3010675
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-69-4	01/30/13 14:30	01/30/13 20:03	3010675
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	96-18-4	01/30/13 14:30	01/30/13 20:03	3010675
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.3	108-05-4	01/30/13 14:30	01/30/13 20:03	3010675
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	01/30/13 14:30	01/30/13 20:03	3010675
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.8	1330-20-7	01/30/13 14:30	01/30/13 20:03	3010675
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	96 %		80-120				1868-53-7	01/30/13 14:30	01/30/13 20:03	3010675

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(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-SW1
Lab No: AWA0838-12
Matrix: Surface Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 11:00
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	104 %		78-120				17060-07-0	01/30/13 14:30	01/30/13 20:03	3010675
Surr: Toluene-d8	EPA 8260B	EPA 5030B	101 %		80-120				2037-26-5	01/30/13 14:30	01/30/13 20:03	3010675
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	98 %		80-120				460-00-4	01/30/13 14:30	01/30/13 20:03	3010675

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110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-SW2
Lab No: AWA0838-13
Matrix: Surface Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 11:35
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	1.60	6.00	1	ug/L	J	0.19	7440-36-0	01/31/13 09:00	01/31/13 23:05	3010695
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.20	7440-38-2	01/31/13 09:00	01/31/13 23:05	3010695
Barium	EPA 6020A	EPA 3005A	49.6	100	1	ug/L	J	0.49	7440-39-3	01/31/13 09:00	01/31/13 23:05	3010695
Beryllium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.09	7440-41-7	01/31/13 09:00	01/31/13 23:05	3010695
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	01/31/13 09:00	01/31/13 23:05	3010695
Chromium	EPA 6020A	EPA 3005A	3.22	10.0	1	ug/L	J	0.71	7440-47-3	01/31/13 09:00	01/31/13 23:05	3010695
Cobalt	EPA 6020A	EPA 3005A	1.03	10.0	1	ug/L	J	0.17	7440-48-4	01/31/13 09:00	01/31/13 23:05	3010695
Copper	EPA 6020A	EPA 3005A	6.90	10.0	1	ug/L	J	0.18	7440-50-8	01/31/13 09:00	01/31/13 23:05	3010695
Lead	EPA 6020A	EPA 3005A	1.26	10.0	1	ug/L	J	0.09	7439-92-1	01/31/13 09:00	01/31/13 23:05	3010695
Nickel	EPA 6020A	EPA 3005A	5.04	50.0	1	ug/L	J	0.18	7440-02-0	01/31/13 09:00	01/31/13 23:05	3010695
Selenium	EPA 6020A	EPA 3005A	0.99	10.0	1	ug/L	J	0.54	7782-49-2	01/31/13 09:00	01/31/13 23:05	3010695
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.10	7440-22-4	01/31/13 09:00	01/31/13 23:05	3010695
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.23	7440-28-0	01/31/13 09:00	01/31/13 23:05	3010695
Vanadium	EPA 6020A	EPA 3005A	9.56	25.0	1	ug/L	B-01, J	1.70	7440-62-2	01/31/13 09:00	01/31/13 23:05	3010695
Zinc	EPA 6020A	EPA 3005A	5.11	10.0	1	ug/L	J	0.27	7440-66-6	01/31/13 09:00	01/31/13 23:05	3010695
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		6.1	67-64-1	01/31/13 10:00	01/31/13 10:09	3010704
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.9	107-13-1	01/31/13 10:00	01/31/13 10:09	3010704
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	71-43-2	01/31/13 10:00	01/31/13 10:09	3010704
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	01/31/13 10:00	01/31/13 10:09	3010704
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-27-4	01/31/13 10:00	01/31/13 10:09	3010704

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-SW2
Lab No: AWA0838-13
Matrix: Surface Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 11:35
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.0	75-25-2	01/31/13 10:00	01/31/13 10:09	3010704
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		2.0	74-83-9	01/31/13 10:00	01/31/13 10:09	3010704
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	75-15-0	01/31/13 10:00	01/31/13 10:09	3010704
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	56-23-5	01/31/13 10:00	01/31/13 10:09	3010704
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	01/31/13 10:00	01/31/13 10:09	3010704
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	75-00-3	01/31/13 10:00	01/31/13 10:09	3010704
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	67-66-3	01/31/13 10:00	01/31/13 10:09	3010704
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	74-87-3	01/31/13 10:00	01/31/13 10:09	3010704
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.3	124-48-1	01/31/13 10:00	01/31/13 10:09	3010704
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	01/31/13 10:00	01/31/13 10:09	3010704
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	01/31/13 10:00	01/31/13 10:09	3010704
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	01/31/13 10:00	01/31/13 10:09	3010704
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	01/31/13 10:00	01/31/13 10:09	3010704
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	01/31/13 10:00	01/31/13 10:09	3010704
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	01/31/13 10:00	01/31/13 10:09	3010704
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	01/31/13 10:00	01/31/13 10:09	3010704
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	01/31/13 10:00	01/31/13 10:09	3010704
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	01/31/13 10:00	01/31/13 10:09	3010704
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	01/31/13 10:00	01/31/13 10:09	3010704
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	156-60-5	01/31/13 10:00	01/31/13 10:09	3010704
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	01/31/13 10:00	01/31/13 10:09	3010704
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-01-5	01/31/13 10:00	01/31/13 10:09	3010704

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Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-SW2
Lab No: AWA0838-13
Matrix: Surface Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 11:35
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-02-6	01/31/13 10:00	01/31/13 10:09	3010704
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-41-4	01/31/13 10:00	01/31/13 10:09	3010704
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.8	74-88-4	01/31/13 10:00	01/31/13 10:09	3010704
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.3	591-78-6	01/31/13 10:00	01/31/13 10:09	3010704
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-09-2	01/31/13 10:00	01/31/13 10:09	3010704
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	78-93-3	01/31/13 10:00	01/31/13 10:09	3010704
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	108-10-1	01/31/13 10:00	01/31/13 10:09	3010704
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	100-42-5	01/31/13 10:00	01/31/13 10:09	3010704
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	01/31/13 10:00	01/31/13 10:09	3010704
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	79-34-5	01/31/13 10:00	01/31/13 10:09	3010704
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	127-18-4	01/31/13 10:00	01/31/13 10:09	3010704
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	01/31/13 10:00	01/31/13 10:09	3010704
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	01/31/13 10:00	01/31/13 10:09	3010704
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-00-5	01/31/13 10:00	01/31/13 10:09	3010704
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	79-01-6	01/31/13 10:00	01/31/13 10:09	3010704
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-69-4	01/31/13 10:00	01/31/13 10:09	3010704
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	96-18-4	01/31/13 10:00	01/31/13 10:09	3010704
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.3	108-05-4	01/31/13 10:00	01/31/13 10:09	3010704
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	01/31/13 10:00	01/31/13 10:09	3010704
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.8	1330-20-7	01/31/13 10:00	01/31/13 10:09	3010704
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	99 %		80-120				1868-53-7	01/31/13 10:00	01/31/13 10:09	3010704

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-SW2
Lab No: AWA0838-13
Matrix: Surface Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 11:35
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	104 %		78-120				17060-07-0	01/31/13 10:00	01/31/13 10:09	3010704
Surr: Toluene-d8	EPA 8260B	EPA 5030B	101 %		80-120				2037-26-5	01/31/13 10:00	01/31/13 10:09	3010704
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	100 %		80-120				460-00-4	01/31/13 10:00	01/31/13 10:09	3010704

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-SW3
Lab No: AWA0838-14
Matrix: Surface Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 11:45
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		0.19	7440-36-0	01/31/13 09:00	01/31/13 23:11	3010695
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.20	7440-38-2	01/31/13 09:00	01/31/13 23:11	3010695
Barium	EPA 6020A	EPA 3005A	72.6	100	1	ug/L	J	0.49	7440-39-3	01/31/13 09:00	01/31/13 23:11	3010695
Beryllium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.09	7440-41-7	01/31/13 09:00	01/31/13 23:11	3010695
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	01/31/13 09:00	01/31/13 23:11	3010695
Chromium	EPA 6020A	EPA 3005A	2.92	10.0	1	ug/L	J	0.71	7440-47-3	01/31/13 09:00	01/31/13 23:11	3010695
Cobalt	EPA 6020A	EPA 3005A	1.32	10.0	1	ug/L	J	0.17	7440-48-4	01/31/13 09:00	01/31/13 23:11	3010695
Copper	EPA 6020A	EPA 3005A	1.30	10.0	1	ug/L	J	0.18	7440-50-8	01/31/13 09:00	01/31/13 23:11	3010695
Lead	EPA 6020A	EPA 3005A	0.65	10.0	1	ug/L	J	0.09	7439-92-1	01/31/13 09:00	01/31/13 23:11	3010695
Nickel	EPA 6020A	EPA 3005A	1.90	50.0	1	ug/L	J	0.18	7440-02-0	01/31/13 09:00	01/31/13 23:11	3010695
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.54	7782-49-2	01/31/13 09:00	01/31/13 23:11	3010695
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.10	7440-22-4	01/31/13 09:00	01/31/13 23:11	3010695
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.23	7440-28-0	01/31/13 09:00	01/31/13 23:11	3010695
Vanadium	EPA 6020A	EPA 3005A	3.68	25.0	1	ug/L	B-01, J	1.70	7440-62-2	01/31/13 09:00	01/31/13 23:11	3010695
Zinc	EPA 6020A	EPA 3005A	4.93	10.0	1	ug/L	J	0.27	7440-66-6	01/31/13 09:00	01/31/13 23:11	3010695
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		6.1	67-64-1	01/31/13 10:00	01/31/13 10:37	3010704
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.9	107-13-1	01/31/13 10:00	01/31/13 10:37	3010704
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	71-43-2	01/31/13 10:00	01/31/13 10:37	3010704
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	01/31/13 10:00	01/31/13 10:37	3010704
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-27-4	01/31/13 10:00	01/31/13 10:37	3010704

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-SW3
Lab No: AWA0838-14
Matrix: Surface Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 11:45
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.0	75-25-2	01/31/13 10:00	01/31/13 10:37	3010704
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		2.0	74-83-9	01/31/13 10:00	01/31/13 10:37	3010704
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	75-15-0	01/31/13 10:00	01/31/13 10:37	3010704
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	56-23-5	01/31/13 10:00	01/31/13 10:37	3010704
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	01/31/13 10:00	01/31/13 10:37	3010704
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	75-00-3	01/31/13 10:00	01/31/13 10:37	3010704
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	67-66-3	01/31/13 10:00	01/31/13 10:37	3010704
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	74-87-3	01/31/13 10:00	01/31/13 10:37	3010704
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.3	124-48-1	01/31/13 10:00	01/31/13 10:37	3010704
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	01/31/13 10:00	01/31/13 10:37	3010704
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	01/31/13 10:00	01/31/13 10:37	3010704
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	01/31/13 10:00	01/31/13 10:37	3010704
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	01/31/13 10:00	01/31/13 10:37	3010704
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	01/31/13 10:00	01/31/13 10:37	3010704
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	01/31/13 10:00	01/31/13 10:37	3010704
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	01/31/13 10:00	01/31/13 10:37	3010704
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	01/31/13 10:00	01/31/13 10:37	3010704
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	01/31/13 10:00	01/31/13 10:37	3010704
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	01/31/13 10:00	01/31/13 10:37	3010704
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	156-60-5	01/31/13 10:00	01/31/13 10:37	3010704
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	01/31/13 10:00	01/31/13 10:37	3010704
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-01-5	01/31/13 10:00	01/31/13 10:37	3010704

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-SW3
Lab No: AWA0838-14
Matrix: Surface Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 11:45
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-02-6	01/31/13 10:00	01/31/13 10:37	3010704
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-41-4	01/31/13 10:00	01/31/13 10:37	3010704
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.8	74-88-4	01/31/13 10:00	01/31/13 10:37	3010704
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.3	591-78-6	01/31/13 10:00	01/31/13 10:37	3010704
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-09-2	01/31/13 10:00	01/31/13 10:37	3010704
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	78-93-3	01/31/13 10:00	01/31/13 10:37	3010704
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	108-10-1	01/31/13 10:00	01/31/13 10:37	3010704
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	100-42-5	01/31/13 10:00	01/31/13 10:37	3010704
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	01/31/13 10:00	01/31/13 10:37	3010704
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	79-34-5	01/31/13 10:00	01/31/13 10:37	3010704
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	127-18-4	01/31/13 10:00	01/31/13 10:37	3010704
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	01/31/13 10:00	01/31/13 10:37	3010704
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	01/31/13 10:00	01/31/13 10:37	3010704
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-00-5	01/31/13 10:00	01/31/13 10:37	3010704
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	79-01-6	01/31/13 10:00	01/31/13 10:37	3010704
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-69-4	01/31/13 10:00	01/31/13 10:37	3010704
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	96-18-4	01/31/13 10:00	01/31/13 10:37	3010704
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.3	108-05-4	01/31/13 10:00	01/31/13 10:37	3010704
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	01/31/13 10:00	01/31/13 10:37	3010704
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.8	1330-20-7	01/31/13 10:00	01/31/13 10:37	3010704
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	97 %		80-120				1868-53-7	01/31/13 10:00	01/31/13 10:37	3010704

ASI

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Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-SW3
Lab No: AWA0838-14
Matrix: Surface Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 11:45
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	105 %		78-120				17060-07-0	01/31/13 10:00	01/31/13 10:37	3010704
Surr: Toluene-d8	EPA 8260B	EPA 5030B	101 %		80-120				2037-26-5	01/31/13 10:00	01/31/13 10:37	3010704
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	98 %		80-120				460-00-4	01/31/13 10:00	01/31/13 10:37	3010704

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Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-SW4
Lab No: AWA0838-15
Matrix: Surface Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 11:55
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		0.19	7440-36-0	01/31/13 09:00	01/31/13 23:17	3010695
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.20	7440-38-2	01/31/13 09:00	01/31/13 23:17	3010695
Barium	EPA 6020A	EPA 3005A	92.7	100	1	ug/L	J	0.49	7440-39-3	01/31/13 09:00	01/31/13 23:17	3010695
Beryllium	EPA 6020A	EPA 3005A	0.16	1.00	1	ug/L	J	0.09	7440-41-7	01/31/13 09:00	01/31/13 23:17	3010695
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	01/31/13 09:00	01/31/13 23:17	3010695
Chromium	EPA 6020A	EPA 3005A	7.56	10.0	1	ug/L	J	0.71	7440-47-3	01/31/13 09:00	01/31/13 23:17	3010695
Cobalt	EPA 6020A	EPA 3005A	3.34	10.0	1	ug/L	J	0.17	7440-48-4	01/31/13 09:00	01/31/13 23:17	3010695
Copper	EPA 6020A	EPA 3005A	3.79	10.0	1	ug/L	J	0.18	7440-50-8	01/31/13 09:00	01/31/13 23:17	3010695
Lead	EPA 6020A	EPA 3005A	4.32	10.0	1	ug/L	J	0.09	7439-92-1	01/31/13 09:00	01/31/13 23:17	3010695
Nickel	EPA 6020A	EPA 3005A	4.94	50.0	1	ug/L	J	0.18	7440-02-0	01/31/13 09:00	01/31/13 23:17	3010695
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.54	7782-49-2	01/31/13 09:00	01/31/13 23:17	3010695
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.10	7440-22-4	01/31/13 09:00	01/31/13 23:17	3010695
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.23	7440-28-0	01/31/13 09:00	01/31/13 23:17	3010695
Vanadium	EPA 6020A	EPA 3005A	10.6	25.0	1	ug/L	B-01, J	1.70	7440-62-2	01/31/13 09:00	01/31/13 23:17	3010695
Zinc	EPA 6020A	EPA 3005A	86.5	10.0	1	ug/L		0.27	7440-66-6	01/31/13 09:00	01/31/13 23:17	3010695
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		6.1	67-64-1	01/31/13 10:00	01/31/13 11:05	3010704
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.9	107-13-1	01/31/13 10:00	01/31/13 11:05	3010704
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	71-43-2	01/31/13 10:00	01/31/13 11:05	3010704
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	01/31/13 10:00	01/31/13 11:05	3010704
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-27-4	01/31/13 10:00	01/31/13 11:05	3010704

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-SW4
Lab No: AWA0838-15
Matrix: Surface Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 11:55
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.0	75-25-2	01/31/13 10:00	01/31/13 11:05	3010704
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		2.0	74-83-9	01/31/13 10:00	01/31/13 11:05	3010704
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	75-15-0	01/31/13 10:00	01/31/13 11:05	3010704
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	56-23-5	01/31/13 10:00	01/31/13 11:05	3010704
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	01/31/13 10:00	01/31/13 11:05	3010704
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	75-00-3	01/31/13 10:00	01/31/13 11:05	3010704
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	67-66-3	01/31/13 10:00	01/31/13 11:05	3010704
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	74-87-3	01/31/13 10:00	01/31/13 11:05	3010704
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.3	124-48-1	01/31/13 10:00	01/31/13 11:05	3010704
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	01/31/13 10:00	01/31/13 11:05	3010704
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	01/31/13 10:00	01/31/13 11:05	3010704
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	01/31/13 10:00	01/31/13 11:05	3010704
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	01/31/13 10:00	01/31/13 11:05	3010704
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	01/31/13 10:00	01/31/13 11:05	3010704
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	01/31/13 10:00	01/31/13 11:05	3010704
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	01/31/13 10:00	01/31/13 11:05	3010704
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	01/31/13 10:00	01/31/13 11:05	3010704
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	01/31/13 10:00	01/31/13 11:05	3010704
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	01/31/13 10:00	01/31/13 11:05	3010704
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	156-60-5	01/31/13 10:00	01/31/13 11:05	3010704
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	01/31/13 10:00	01/31/13 11:05	3010704
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-01-5	01/31/13 10:00	01/31/13 11:05	3010704

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110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-SW4
Lab No: AWA0838-15
Matrix: Surface Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 11:55
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-02-6	01/31/13 10:00	01/31/13 11:05	3010704
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-41-4	01/31/13 10:00	01/31/13 11:05	3010704
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.8	74-88-4	01/31/13 10:00	01/31/13 11:05	3010704
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.3	591-78-6	01/31/13 10:00	01/31/13 11:05	3010704
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-09-2	01/31/13 10:00	01/31/13 11:05	3010704
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	78-93-3	01/31/13 10:00	01/31/13 11:05	3010704
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	108-10-1	01/31/13 10:00	01/31/13 11:05	3010704
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	100-42-5	01/31/13 10:00	01/31/13 11:05	3010704
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	01/31/13 10:00	01/31/13 11:05	3010704
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	79-34-5	01/31/13 10:00	01/31/13 11:05	3010704
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	127-18-4	01/31/13 10:00	01/31/13 11:05	3010704
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	01/31/13 10:00	01/31/13 11:05	3010704
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	01/31/13 10:00	01/31/13 11:05	3010704
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-00-5	01/31/13 10:00	01/31/13 11:05	3010704
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	79-01-6	01/31/13 10:00	01/31/13 11:05	3010704
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-69-4	01/31/13 10:00	01/31/13 11:05	3010704
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	96-18-4	01/31/13 10:00	01/31/13 11:05	3010704
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.3	108-05-4	01/31/13 10:00	01/31/13 11:05	3010704
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	01/31/13 10:00	01/31/13 11:05	3010704
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.8	1330-20-7	01/31/13 10:00	01/31/13 11:05	3010704
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	99 %		80-120				1868-53-7	01/31/13 10:00	01/31/13 11:05	3010704

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1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-SW4
Lab No: AWA0838-15
Matrix: Surface Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 11:55
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	106 %		78-120				17060-07-0	01/31/13 10:00	01/31/13 11:05	3010704
Surr: Toluene-d8	EPA 8260B	EPA 5030B	100 %		80-120				2037-26-5	01/31/13 10:00	01/31/13 11:05	3010704
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	99 %		80-120				460-00-4	01/31/13 10:00	01/31/13 11:05	3010704

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1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-Field Blank
Lab No: AWA0838-16
Matrix: Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/29/13 12:15
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		0.19	7440-36-0	01/31/13 09:00	01/31/13 23:34	3010695
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		1.20	7440-38-2	01/31/13 09:00	01/31/13 23:34	3010695
Barium	EPA 6020A	EPA 3005A	ND	100	1	ug/L		0.49	7440-39-3	01/31/13 09:00	01/31/13 23:34	3010695
Beryllium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.09	7440-41-7	01/31/13 09:00	01/31/13 23:34	3010695
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	01/31/13 09:00	01/31/13 23:34	3010695
Chromium	EPA 6020A	EPA 3005A	1.38	10.0	1	ug/L	J	0.71	7440-47-3	01/31/13 09:00	01/31/13 23:34	3010695
Cobalt	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.17	7440-48-4	01/31/13 09:00	01/31/13 23:34	3010695
Copper	EPA 6020A	EPA 3005A	0.26	10.0	1	ug/L	J	0.18	7440-50-8	01/31/13 09:00	01/31/13 23:34	3010695
Lead	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.09	7439-92-1	01/31/13 09:00	01/31/13 23:34	3010695
Nickel	EPA 6020A	EPA 3005A	ND	50.0	1	ug/L		0.18	7440-02-0	01/31/13 09:00	01/31/13 23:34	3010695
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.54	7782-49-2	01/31/13 09:00	01/31/13 23:34	3010695
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.10	7440-22-4	01/31/13 09:00	01/31/13 23:34	3010695
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.23	7440-28-0	01/31/13 09:00	01/31/13 23:34	3010695
Vanadium	EPA 6020A	EPA 3005A	ND	25.0	1	ug/L		1.70	7440-62-2	01/31/13 09:00	01/31/13 23:34	3010695
Zinc	EPA 6020A	EPA 3005A	0.57	10.0	1	ug/L	J	0.27	7440-66-6	01/31/13 09:00	01/31/13 23:34	3010695
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		6.1	67-64-1	01/31/13 10:00	01/31/13 11:34	3010704
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.9	107-13-1	01/31/13 10:00	01/31/13 11:34	3010704
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	71-43-2	01/31/13 10:00	01/31/13 11:34	3010704
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	01/31/13 10:00	01/31/13 11:34	3010704
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-27-4	01/31/13 10:00	01/31/13 11:34	3010704

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-Field Blank
Lab No: AWA0838-16
Matrix: Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/29/13 12:15
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.0	75-25-2	01/31/13 10:00	01/31/13 11:34	3010704
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		2.0	74-83-9	01/31/13 10:00	01/31/13 11:34	3010704
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	75-15-0	01/31/13 10:00	01/31/13 11:34	3010704
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	56-23-5	01/31/13 10:00	01/31/13 11:34	3010704
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	01/31/13 10:00	01/31/13 11:34	3010704
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	75-00-3	01/31/13 10:00	01/31/13 11:34	3010704
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	67-66-3	01/31/13 10:00	01/31/13 11:34	3010704
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	74-87-3	01/31/13 10:00	01/31/13 11:34	3010704
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.3	124-48-1	01/31/13 10:00	01/31/13 11:34	3010704
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	01/31/13 10:00	01/31/13 11:34	3010704
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	01/31/13 10:00	01/31/13 11:34	3010704
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	01/31/13 10:00	01/31/13 11:34	3010704
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	01/31/13 10:00	01/31/13 11:34	3010704
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	01/31/13 10:00	01/31/13 11:34	3010704
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	01/31/13 10:00	01/31/13 11:34	3010704
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	01/31/13 10:00	01/31/13 11:34	3010704
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	01/31/13 10:00	01/31/13 11:34	3010704
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	01/31/13 10:00	01/31/13 11:34	3010704
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	01/31/13 10:00	01/31/13 11:34	3010704
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	156-60-5	01/31/13 10:00	01/31/13 11:34	3010704
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	01/31/13 10:00	01/31/13 11:34	3010704
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-01-5	01/31/13 10:00	01/31/13 11:34	3010704

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1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-Field Blank
Lab No: AWA0838-16
Matrix: Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/29/13 12:15
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-02-6	01/31/13 10:00	01/31/13 11:34	3010704
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-41-4	01/31/13 10:00	01/31/13 11:34	3010704
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.8	74-88-4	01/31/13 10:00	01/31/13 11:34	3010704
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.3	591-78-6	01/31/13 10:00	01/31/13 11:34	3010704
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-09-2	01/31/13 10:00	01/31/13 11:34	3010704
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	78-93-3	01/31/13 10:00	01/31/13 11:34	3010704
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	108-10-1	01/31/13 10:00	01/31/13 11:34	3010704
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	100-42-5	01/31/13 10:00	01/31/13 11:34	3010704
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	01/31/13 10:00	01/31/13 11:34	3010704
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	79-34-5	01/31/13 10:00	01/31/13 11:34	3010704
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	127-18-4	01/31/13 10:00	01/31/13 11:34	3010704
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	01/31/13 10:00	01/31/13 11:34	3010704
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	01/31/13 10:00	01/31/13 11:34	3010704
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-00-5	01/31/13 10:00	01/31/13 11:34	3010704
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	79-01-6	01/31/13 10:00	01/31/13 11:34	3010704
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-69-4	01/31/13 10:00	01/31/13 11:34	3010704
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	96-18-4	01/31/13 10:00	01/31/13 11:34	3010704
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.3	108-05-4	01/31/13 10:00	01/31/13 11:34	3010704
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	01/31/13 10:00	01/31/13 11:34	3010704
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.8	1330-20-7	01/31/13 10:00	01/31/13 11:34	3010704
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	100 %		80-120				1868-53-7	01/31/13 10:00	01/31/13 11:34	3010704

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-Field Blank
Lab No: AWA0838-16
Matrix: Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/29/13 12:15
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	106 %		78-120				17060-07-0	01/31/13 10:00	01/31/13 11:34	3010704
Surr: Toluene-d8	EPA 8260B	EPA 5030B	100 %		80-120				2037-26-5	01/31/13 10:00	01/31/13 11:34	3010704
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	99 %		80-120				460-00-4	01/31/13 10:00	01/31/13 11:34	3010704

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-Trip Blank
Lab No: AWA0838-17
Matrix: Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 07:00
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		6.1	67-64-1	01/31/13 10:00	01/31/13 12:02	3010704
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.9	107-13-1	01/31/13 10:00	01/31/13 12:02	3010704
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	71-43-2	01/31/13 10:00	01/31/13 12:02	3010704
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	01/31/13 10:00	01/31/13 12:02	3010704
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-27-4	01/31/13 10:00	01/31/13 12:02	3010704
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.0	75-25-2	01/31/13 10:00	01/31/13 12:02	3010704
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		2.0	74-83-9	01/31/13 10:00	01/31/13 12:02	3010704
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	75-15-0	01/31/13 10:00	01/31/13 12:02	3010704
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	56-23-5	01/31/13 10:00	01/31/13 12:02	3010704
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	01/31/13 10:00	01/31/13 12:02	3010704
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	75-00-3	01/31/13 10:00	01/31/13 12:02	3010704
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	67-66-3	01/31/13 10:00	01/31/13 12:02	3010704
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	74-87-3	01/31/13 10:00	01/31/13 12:02	3010704
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.3	124-48-1	01/31/13 10:00	01/31/13 12:02	3010704
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	01/31/13 10:00	01/31/13 12:02	3010704
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	01/31/13 10:00	01/31/13 12:02	3010704
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	01/31/13 10:00	01/31/13 12:02	3010704
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	95-50-1	01/31/13 10:00	01/31/13 12:02	3010704
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	01/31/13 10:00	01/31/13 12:02	3010704
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	01/31/13 10:00	01/31/13 12:02	3010704
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	01/31/13 10:00	01/31/13 12:02	3010704
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	01/31/13 10:00	01/31/13 12:02	3010704

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-Trip Blank
Lab No: AWA0838-17
Matrix: Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 07:00
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	01/31/13 10:00	01/31/13 12:02	3010704
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-59-2	01/31/13 10:00	01/31/13 12:02	3010704
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	156-60-5	01/31/13 10:00	01/31/13 12:02	3010704
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	01/31/13 10:00	01/31/13 12:02	3010704
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-01-5	01/31/13 10:00	01/31/13 12:02	3010704
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-02-6	01/31/13 10:00	01/31/13 12:02	3010704
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-41-4	01/31/13 10:00	01/31/13 12:02	3010704
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.8	74-88-4	01/31/13 10:00	01/31/13 12:02	3010704
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.3	591-78-6	01/31/13 10:00	01/31/13 12:02	3010704
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-09-2	01/31/13 10:00	01/31/13 12:02	3010704
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	78-93-3	01/31/13 10:00	01/31/13 12:02	3010704
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.3	108-10-1	01/31/13 10:00	01/31/13 12:02	3010704
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	100-42-5	01/31/13 10:00	01/31/13 12:02	3010704
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	01/31/13 10:00	01/31/13 12:02	3010704
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	79-34-5	01/31/13 10:00	01/31/13 12:02	3010704
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	127-18-4	01/31/13 10:00	01/31/13 12:02	3010704
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	01/31/13 10:00	01/31/13 12:02	3010704
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	01/31/13 10:00	01/31/13 12:02	3010704
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-00-5	01/31/13 10:00	01/31/13 12:02	3010704
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	79-01-6	01/31/13 10:00	01/31/13 12:02	3010704
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-69-4	01/31/13 10:00	01/31/13 12:02	3010704

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Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-Trip Blank
Lab No: AWA0838-17
Matrix: Water

Project: East Carolina Regional Landfill
Date/Time Sampled: 01/28/13 07:00
Date/Time Received: 01/30/13 11:55

Report No.: AWA0838

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	96-18-4	01/31/13 10:00	01/31/13 12:02	3010704
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.3	108-05-4	01/31/13 10:00	01/31/13 12:02	3010704
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	01/31/13 10:00	01/31/13 12:02	3010704
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.8	1330-20-7	01/31/13 10:00	01/31/13 12:02	3010704
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	100 %		80-120				1868-53-7	01/31/13 10:00	01/31/13 12:02	3010704
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	106 %		78-120				17060-07-0	01/31/13 10:00	01/31/13 12:02	3010704
Surr: Toluene-d8	EPA 8260B	EPA 5030B	100 %		80-120				2037-26-5	01/31/13 10:00	01/31/13 12:02	3010704
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	100 %		80-120				460-00-4	01/31/13 10:00	01/31/13 12:02	3010704

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1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010695 - EPA 3005A										
Blank (3010695-BLK1)							Prepared & Analyzed: 01/31/13			
Antimony	ND	6.00	ug/L							
Arsenic	ND	10.0	ug/L							
Barium	ND	100	ug/L							
Beryllium	ND	1.00	ug/L							
Cadmium	ND	1.00	ug/L							
Chromium	ND	10.0	ug/L							
Cobalt	ND	10.0	ug/L							
Copper	ND	10.0	ug/L							
Lead	ND	10.0	ug/L							
Nickel	ND	50.0	ug/L							
Selenium	ND	10.0	ug/L							
Silver	ND	10.0	ug/L							
Thallium	ND	5.50	ug/L							
Vanadium	2.68	25.0	ug/L							J
Zinc	ND	10.0	ug/L							
LCS (3010695-BS1)							Prepared & Analyzed: 01/31/13			
Antimony	106	6.00	ug/L	100.00		106	80-120			
Arsenic	103	10.0	ug/L	100.00		103	80-120			
Barium	95.7	100	ug/L	100.00		96	80-120			J
Beryllium	104	1.00	ug/L	100.00		104	80-120			
Cadmium	104	1.00	ug/L	100.00		104	80-120			
Chromium	101	10.0	ug/L	100.00		101	80-120			
Cobalt	103	10.0	ug/L	100.00		103	80-120			
Copper	102	10.0	ug/L	100.00		102	80-120			
Lead	99.9	10.0	ug/L	100.00		100	80-120			
Nickel	103	50.0	ug/L	100.00		103	80-120			

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1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010695 - EPA 3005A										
LCS (3010695-BS1)							Prepared & Analyzed: 01/31/13			
Selenium	101	10.0	ug/L	100.00		101	80-120			
Silver	101	10.0	ug/L	100.00		101	80-120			
Thallium	99.7	5.50	ug/L	100.00		100	80-120			
Vanadium	102	25.0	ug/L	100.00		102	80-120			
Zinc	102	10.0	ug/L	100.00		102	80-120			
Matrix Spike (3010695-MS1)	**Source: AWA0838-02**						Prepared & Analyzed: 01/31/13			
Antimony	105	6.00	ug/L	100.00	0.40	105	75-125			
Arsenic	98.3	10.0	ug/L	100.00	ND	98	75-125			
Barium	165	100	ug/L	100.00	72.0	93	75-125			
Beryllium	103	1.00	ug/L	100.00	2.01	101	75-125			
Cadmium	102	1.00	ug/L	100.00	ND	102	75-125			
Chromium	98.0	10.0	ug/L	100.00	2.06	96	75-125			
Cobalt	132	10.0	ug/L	100.00	33.3	99	75-125			
Copper	98.4	10.0	ug/L	100.00	1.13	97	75-125			
Lead	97.4	10.0	ug/L	100.00	1.14	96	75-125			
Nickel	107	50.0	ug/L	100.00	9.57	97	75-125			
Selenium	98.2	10.0	ug/L	100.00	1.10	97	75-125			
Silver	99.0	10.0	ug/L	100.00	0.34	99	75-125			
Thallium	96.2	5.50	ug/L	100.00	ND	96	75-125			
Vanadium	97.1	25.0	ug/L	100.00	ND	97	75-125			
Zinc	101	10.0	ug/L	100.00	4.76	96	75-125			
Matrix Spike Dup (3010695-MSD1)	**Source: AWA0838-02**						Prepared & Analyzed: 01/31/13			
Antimony	104	6.00	ug/L	100.00	0.40	103	75-125	1	20	
Arsenic	97.0	10.0	ug/L	100.00	ND	97	75-125	1	20	
Barium	164	100	ug/L	100.00	72.0	92	75-125	0.4	20	

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010695 - EPA 3005A										
Matrix Spike Dup (3010695-MSD1)		**Source: AWA0838-02**					Prepared & Analyzed: 01/31/13			
Beryllium	99.3	1.00	ug/L	100.00	2.01	97	75-125	3	20	
Cadmium	100	1.00	ug/L	100.00	ND	100	75-125	2	20	
Chromium	96.1	10.0	ug/L	100.00	2.06	94	75-125	2	20	
Cobalt	129	10.0	ug/L	100.00	33.3	96	75-125	2	20	
Copper	95.8	10.0	ug/L	100.00	1.13	95	75-125	3	20	
Lead	97.1	10.0	ug/L	100.00	1.14	96	75-125	0.3	20	
Nickel	104	50.0	ug/L	100.00	9.57	95	75-125	2	20	
Selenium	96.5	10.0	ug/L	100.00	1.10	95	75-125	2	20	
Silver	97.0	10.0	ug/L	100.00	0.34	97	75-125	2	20	
Thallium	96.5	5.50	ug/L	100.00	ND	97	75-125	0.4	20	
Vanadium	98.1	25.0	ug/L	100.00	ND	98	75-125	1	20	
Zinc	100	10.0	ug/L	100.00	4.76	95	75-125	1	20	
Post Spike (3010695-PS1)		**Source: AWA0838-02**					Prepared & Analyzed: 01/31/13			
Antimony	92.8		ug/L	100.00	0.40	92	80-120			
Arsenic	97.2		ug/L	100.00	-1.73	99	80-120			
Barium	165		ug/L	100.00	72.0	93	80-120			
Beryllium	100		ug/L	100.00	2.01	98	80-120			
Cadmium	101		ug/L	100.00	0.05	101	80-120			
Chromium	95.9		ug/L	100.00	2.06	94	80-120			
Cobalt	129		ug/L	100.00	33.3	95	80-120			
Copper	96.1		ug/L	100.00	1.13	95	80-120			
Lead	97.5		ug/L	100.00	1.14	96	80-120			
Nickel	104		ug/L	100.00	9.57	95	80-120			
Selenium	97.5		ug/L	100.00	1.10	96	80-120			
Silver	97.9		ug/L	100.00	0.34	98	80-120			
Thallium	96.4		ug/L	100.00	-0.04	96	80-120			

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Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010695 - EPA 3005A										
Post Spike (3010695-PS1)		**Source: AWA0838-02**					Prepared & Analyzed: 01/31/13			
Vanadium	96.0		ug/L	100.00	0.78	95	80-120			
Zinc	100		ug/L	100.00	4.76	95	80-120			

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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010675 - EPA 5030B										
Blank (3010675-BLK1)							Prepared & Analyzed: 01/30/13			
Acetone	ND	100	ug/L							
Acrylonitrile	ND	200	ug/L							
Benzene	ND	1.0	ug/L							
Bromochloromethane	ND	3.0	ug/L							
Bromodichloromethane	ND	1.0	ug/L							
Bromoform	ND	3.0	ug/L							
Bromomethane	ND	10	ug/L							
Carbon Disulfide	ND	100	ug/L							
Carbon Tetrachloride	ND	1.0	ug/L							
Chlorobenzene	ND	3.0	ug/L							
Chloroethane	ND	10	ug/L							
Chloroform	ND	5.0	ug/L							
Chloromethane	ND	1.0	ug/L							
Dibromochloromethane	ND	3.0	ug/L							
1,2-Dibromo-3-chloropropane	ND	13	ug/L							
1,2-Dibromoethane	ND	1.0	ug/L							
Dibromomethane	ND	10	ug/L							
1,2-Dichlorobenzene	ND	5.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
trans-1,4-Dichloro-2-butene	ND	100	ug/L							
1,1-Dichloroethane	ND	5.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	5.0	ug/L							
cis-1,2-Dichloroethene	ND	5.0	ug/L							
trans-1,2-Dichloroethene	ND	5.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
cis-1,3-Dichloropropene	ND	1.0	ug/L							

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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010675 - EPA 5030B										
Blank (3010675-BLK1)							Prepared & Analyzed: 01/30/13			
trans-1,3-Dichloropropene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
Iodomethane	ND	10	ug/L							
Methyl Butyl Ketone (2-Hexanone)	ND	50	ug/L							
Methylene Chloride	ND	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	ND	100	ug/L							
4-Methyl-2-pentanone (MIBK)	ND	100	ug/L							
Styrene	ND	1.0	ug/L							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	3.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							
Toluene	0.2	1.0	ug/L							J
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
Trichloroethene	ND	1.0	ug/L							
Trichlorofluoromethane	ND	1.0	ug/L							
1,2,3-Trichloropropane	ND	1.0	ug/L							
Vinyl Acetate	ND	50	ug/L							
Vinyl Chloride	ND	1.0	ug/L							
Xylenes, total	ND	5.0	ug/L							
Surr: Dibromofluoromethane	*47*		*ug/L*	*50.000*		*94*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*49*		*ug/L*	*50.000*		*98*	*78-120*			
Surr: Toluene-d8	*50*		*ug/L*	*50.000*		*99*	*80-120*			
Surr: 4-Bromofluorobenzene	*50*		*ug/L*	*50.000*		*99*	*80-120*			
LCS (3010675-BS1)							Prepared & Analyzed: 01/30/13			

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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010675 - EPA 5030B										
LCS (3010675-BS1)							Prepared & Analyzed: 01/30/13			
Benzene	45		ug/L	50.000		90	67-134			
Chlorobenzene	48		ug/L	50.000		95	69-122			
1,1-Dichloroethene	43		ug/L	50.000		86	58-142			
Toluene	44		ug/L	50.000		88	68-127			
Trichloroethene	48		ug/L	50.000		95	72-132			
Surr: Dibromofluoromethane	*48*		*ug/L*	*50.000*		*96*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*49*		*ug/L*	*50.000*		*99*	*78-120*			
Surr: Toluene-d8	*50*		*ug/L*	*50.000*		*99*	*80-120*			
Surr: 4-Bromofluorobenzene	*49*		*ug/L*	*50.000*		*98*	*80-120*			
Matrix Spike (3010675-MS1)		**Source: AWA0838-02**					Prepared & Analyzed: 01/30/13			
Benzene	44		ug/L	50.000	ND	88	67-134			
Chlorobenzene	47		ug/L	50.000	ND	93	69-122			
1,1-Dichloroethene	43		ug/L	50.000	ND	87	58-142			
Toluene	42		ug/L	50.000	0.2	83	68-127			
Trichloroethene	46		ug/L	50.000	ND	92	72-132			
Surr: Dibromofluoromethane	*49*		*ug/L*	*50.000*		*98*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*52*		*ug/L*	*50.000*		*104*	*78-120*			
Surr: Toluene-d8	*50*		*ug/L*	*50.000*		*100*	*80-120*			
Surr: 4-Bromofluorobenzene	*50*		*ug/L*	*50.000*		*101*	*80-120*			
Matrix Spike Dup (3010675-MSD1)		**Source: AWA0838-02**					Prepared & Analyzed: 01/30/13			
Benzene	42		ug/L	50.000	ND	85	67-134	4	9	
Chlorobenzene	45		ug/L	50.000	ND	91	69-122	3	13	
1,1-Dichloroethene	42		ug/L	50.000	ND	84	58-142	4	9	

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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010675 - EPA 5030B										
Matrix Spike Dup (3010675-MSD1)	**Source: AWA0838-02**						Prepared & Analyzed: 01/30/13			
Toluene	41		ug/L	50.000	0.2	82	68-127	2	9	
Trichloroethene	44		ug/L	50.000	ND	89	72-132	4	11	
Surr: Dibromofluoromethane	*49*		*ug/L*	*50.000*		*98*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*52*		*ug/L*	*50.000*		*103*	*78-120*			
Surr: Toluene-d8	*50*		*ug/L*	*50.000*		*101*	*80-120*			
Surr: 4-Bromofluorobenzene	*49*		*ug/L*	*50.000*		*99*	*80-120*			
Batch 3010704 - EPA 5030B										
Blank (3010704-BLK1)							Prepared & Analyzed: 01/31/13			
Acetone	ND	100	ug/L							
Acrylonitrile	ND	200	ug/L							
Benzene	ND	1.0	ug/L							
Bromochloromethane	ND	3.0	ug/L							
Bromodichloromethane	ND	1.0	ug/L							
Bromoform	ND	3.0	ug/L							
Bromomethane	ND	10	ug/L							
Carbon Disulfide	ND	100	ug/L							
Carbon Tetrachloride	ND	1.0	ug/L							
Chlorobenzene	ND	3.0	ug/L							
Chloroethane	ND	10	ug/L							
Chloroform	ND	5.0	ug/L							
Chloromethane	ND	1.0	ug/L							
Dibromochloromethane	ND	3.0	ug/L							
1,2-Dibromo-3-chloropropane	ND	13	ug/L							
1,2-Dibromoethane	ND	1.0	ug/L							

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010704 - EPA 5030B										
Blank (3010704-BLK1)							Prepared & Analyzed: 01/31/13			
Dibromomethane	ND	10	ug/L							
1,2-Dichlorobenzene	ND	5.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
trans-1,4-Dichloro-2-butene	ND	100	ug/L							
1,1-Dichloroethane	ND	5.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	5.0	ug/L							
cis-1,2-Dichloroethene	ND	5.0	ug/L							
trans-1,2-Dichloroethene	ND	5.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
cis-1,3-Dichloropropene	ND	1.0	ug/L							
trans-1,3-Dichloropropene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
Iodomethane	ND	10	ug/L							
Methyl Butyl Ketone (2-Hexanone)	ND	50	ug/L							
Methylene Chloride	ND	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	ND	100	ug/L							
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L							
Styrene	ND	1.0	ug/L							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	3.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							
Toluene	ND	1.0	ug/L							
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
Trichloroethene	ND	1.0	ug/L							
Trichlorofluoromethane	ND	1.0	ug/L							

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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010704 - EPA 5030B										
Blank (3010704-BLK1)							Prepared & Analyzed: 01/31/13			
1,2,3-Trichloropropane	ND	1.0	ug/L							
Vinyl Acetate	ND	50	ug/L							
Vinyl Chloride	ND	1.0	ug/L							
Xylenes, total	ND	5.0	ug/L							
Surr: Dibromofluoromethane	*49*		*ug/L*	*50.000*		*98*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*52*		*ug/L*	*50.000*		*104*	*78-120*			
Surr: Toluene-d8	*50*		*ug/L*	*50.000*		*100*	*80-120*			
Surr: 4-Bromofluorobenzene	*49*		*ug/L*	*50.000*		*98*	*80-120*			
Blank (3010704-BLK2)							Prepared: 02/01/13 Analyzed: 02/04/13			
Acetone	ND	100	ug/L							
Acrylonitrile	ND	200	ug/L							
Benzene	ND	1.0	ug/L							
Bromochloromethane	ND	3.0	ug/L							
Bromodichloromethane	ND	1.0	ug/L							
Bromoform	ND	3.0	ug/L							
Bromomethane	ND	10	ug/L							
Carbon Disulfide	ND	100	ug/L							
Carbon Tetrachloride	ND	1.0	ug/L							
Chlorobenzene	ND	3.0	ug/L							
Chloroethane	ND	10	ug/L							
Chloroform	0.4	5.0	ug/L							J
Chloromethane	ND	1.0	ug/L							
Dibromochloromethane	ND	3.0	ug/L							
1,2-Dibromo-3-chloropropane	ND	13	ug/L							
1,2-Dibromoethane	ND	1.0	ug/L							

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010704 - EPA 5030B										
Blank (3010704-BLK2)							Prepared: 02/01/13 Analyzed: 02/04/13			
Dibromomethane	ND	10	ug/L							
1,2-Dichlorobenzene	ND	5.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
trans-1,4-Dichloro-2-butene	ND	100	ug/L							
1,1-Dichloroethane	ND	5.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	5.0	ug/L							
cis-1,2-Dichloroethene	ND	5.0	ug/L							
trans-1,2-Dichloroethene	ND	5.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
cis-1,3-Dichloropropene	ND	1.0	ug/L							
trans-1,3-Dichloropropene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
Iodomethane	ND	10	ug/L							
Methyl Butyl Ketone (2-Hexanone)	ND	50	ug/L							
Methylene Chloride	ND	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	ND	100	ug/L							
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L							
Styrene	ND	1.0	ug/L							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	3.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							
Toluene	ND	1.0	ug/L							
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
Trichloroethene	ND	1.0	ug/L							
Trichlorofluoromethane	ND	1.0	ug/L							

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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010704 - EPA 5030B										
Blank (3010704-BLK2)							Prepared: 02/01/13 Analyzed: 02/04/13			
1,2,3-Trichloropropane	ND	1.0	ug/L							
Vinyl Acetate	ND	50	ug/L							
Vinyl Chloride	ND	1.0	ug/L							
Xylenes, total	ND	5.0	ug/L							
Surr: Dibromofluoromethane	*47*		*ug/L*	*50.000*		*94*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*48*		*ug/L*	*50.000*		*97*	*78-120*			
Surr: Toluene-d8	*49*		*ug/L*	*50.000*		*97*	*80-120*			
Surr: 4-Bromofluorobenzene	*50*		*ug/L*	*50.000*		*100*	*80-120*			
LCS (3010704-BS1)							Prepared & Analyzed: 01/31/13			
Benzene	43		ug/L	50.000		86	67-134			
Chlorobenzene	46		ug/L	50.000		91	69-122			
1,1-Dichloroethene	45		ug/L	50.000		89	58-142			
Toluene	41		ug/L	50.000		82	68-127			
Trichloroethene	46		ug/L	50.000		91	72-132			
Surr: Dibromofluoromethane	*49*		*ug/L*	*50.000*		*98*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*52*		*ug/L*	*50.000*		*104*	*78-120*			
Surr: Toluene-d8	*50*		*ug/L*	*50.000*		*100*	*80-120*			
Surr: 4-Bromofluorobenzene	*49*		*ug/L*	*50.000*		*98*	*80-120*			
Matrix Spike (3010704-MS1)		**Source: AWA0854-01**					Prepared & Analyzed: 01/31/13			
Benzene	43		ug/L	50.000	ND	86	67-134			
Chlorobenzene	45		ug/L	50.000	ND	91	69-122			
1,1-Dichloroethene	45		ug/L	50.000	0.2	90	58-142			
Toluene	42		ug/L	50.000	ND	84	68-127			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010704 - EPA 5030B										
Matrix Spike (3010704-MS1)		**Source: AWA0854-01**					Prepared & Analyzed: 01/31/13			
Trichloroethene	46		ug/L	50.000	ND	93	72-132			
Surr: Dibromofluoromethane	*48*		*ug/L*	*50.000*		*96*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*52*		*ug/L*	*50.000*		*104*	*78-120*			
Surr: Toluene-d8	*50*		*ug/L*	*50.000*		*101*	*80-120*			
Surr: 4-Bromofluorobenzene	*50*		*ug/L*	*50.000*		*100*	*80-120*			
Matrix Spike Dup (3010704-MSD1)		**Source: AWA0854-01**					Prepared & Analyzed: 01/31/13			
Benzene	42		ug/L	50.000	ND	84	67-134	2	9	
Chlorobenzene	44		ug/L	50.000	ND	88	69-122	3	13	
1,1-Dichloroethene	44		ug/L	50.000	0.2	88	58-142	3	9	
Toluene	41		ug/L	50.000	ND	81	68-127	4	9	
Trichloroethene	44		ug/L	50.000	ND	88	72-132	5	11	
Surr: Dibromofluoromethane	*48*		*ug/L*	*50.000*		*95*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*52*		*ug/L*	*50.000*		*104*	*78-120*			
Surr: Toluene-d8	*50*		*ug/L*	*50.000*		*101*	*80-120*			
Surr: 4-Bromofluorobenzene	*50*		*ug/L*	*50.000*		*101*	*80-120*			

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Laboratory Certifications

Code	Description	Number	Expires
LA	Louisiana	02069	06/30/2013
NC	North Carolina	381	12/31/2013
NELAC	NELAC (Non-Potable Water, Solids)	E87315	06/30/2013
SC	South Carolina	98011001	06/30/2013
TX	Texas	T104704397-08-TX	03/31/2013
VA	Virginia	1340	12/14/2013

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Legend

Defination of Laboratory Terms

ND - Not Detected at levels greater than or equal to SWSL/RL
SWSL/RL - NC DENR Solid Waste Section LImit/Reporting Limit (Adjusted for DF/Prep Factor)
DF - Dilution Factor
MDL - Method Detection Limit

Qualifiers

J Estimated value less than Reporting Limit (RL) but greater than Method Detection Limit(MDL) (CLP J-Flag).

B-01 Analyte was detected in the associated method blank at an estimated level equal to or greater than the MDL. Sample values reported as greater than the MDL and less than 10x the method blank value are reported as estimated values.

Note: Unless otherwise noted, all results are reported on an as received basis.

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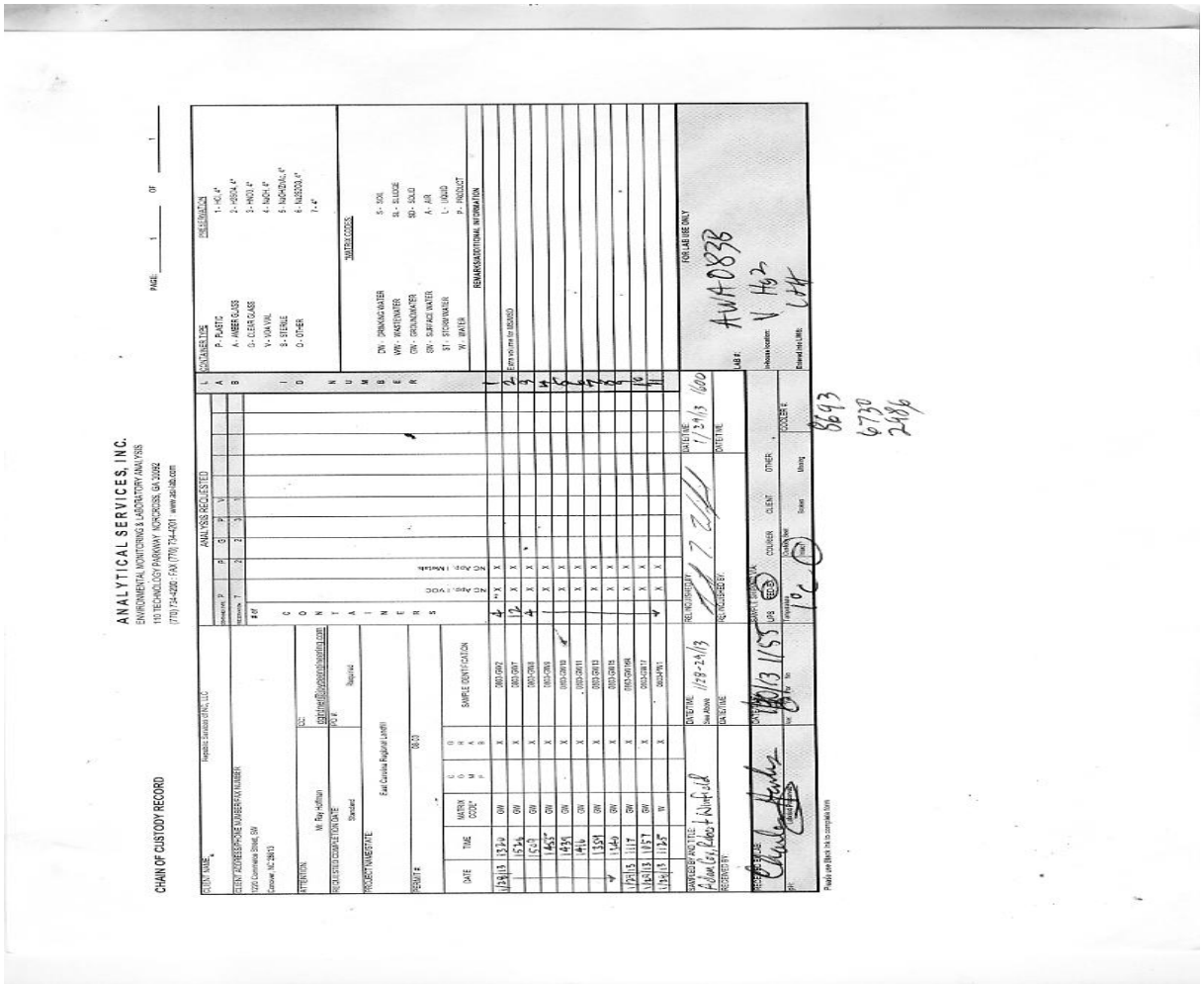
Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013



CHAIN OF CUSTODY RECORD

ANALYTICAL SERVICES, INC.
ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY NORCROSS GA 30092
(770) 734-4200 FAX (770) 734-4201 www.asi-lab.com

PAGE 1 OF 1

CUSTOMER NAME: Republic Services of NC, LLC
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 1220 Commerce Street, SW Conover, NC 28613
ATTENTION: Mr. Ray Hoffman
REQUESTED COMPLETION DATE: Standard
PROJECT NAME/SITE: East Carolina Regional Landfill
PROJECT #: 08-03

ANALYSIS REQUESTED

DATE	TIME	MATRIX CODE	COMP	GRAB	SAMPLE IDENTIFICATION	NO. ANALYSES	P	Q	P	V	REMARKS
1/29/13	1340	GW		X	2003-GW2	4	** X	X			
	1540	GW		X	2003-GW7	12	X	X	*		
	1620	GW		X	2003-GW8	4	X	X	*		
	1455	GW		X	2003-GW9		X	X			
	1435	GW		X	2003-GW10		X	X			
	1410	GW		X	2003-GW11		X	X			
	1350	GW		X	2003-GW13		X	X			
	1540	GW		X	2003-GW15		X	X			
1/30/13	1117	GW		X	2003-GW16		X	X			
1/30/13	1137	GW		X	2003-GW17		X	X			
1/30/13	1125*	W		X	2003-PW1	4	X	X			

CONTAINER TYPE: P - PLASTIC; A - AMBER GLASS; G - CLEAR GLASS; V - VOA VIAL; S - STERILE; O - OTHER

PRESERVATION: 1 - HCl, 4°; 2 - H2SO4, 4°; 3 - HNO3, 4°; 4 - NaOH, 4°; 5 - NaOH/ZnAc, 4°; 6 - Na2S2O3, 4°; 7 - 4°

MATRIX CODES: DW - DRINKING WATER; WW - WASTEWATER; GW - GROUNDWATER; SW - SURFACE WATER; ST - STORMWATER; W - WATER; S - SOIL; SL - SLUDGE; SD - SOLID; A - AIR; L - LIQUID; P - PRODUCT

REMARKS/ADDITIONAL INFORMATION: 1 Extra vol. one for MS/MSD

RELINQUISHED BY: Charles Hughes — DATE/TIME: 1/30/13 1155
RECEIVED BY: Charles Hughes — DATE/TIME: 1/30/13 1155
SAMPLES BY AND TITLE: Robert Gray, Robert Nuttall — DATE/TIME: 1/29-30/13
RELINQUISHED BY: — DATE/TIME: 1/29/13 1600
RECEIVED BY: — DATE/TIME:

SAMPLE RECEIPT INFORMATION: COURIER; CLIENT; OTHER; COOLER #: 8693, 6720, 2598; Temperature: 1°C; Seals Intact: Yes; Broken; Missing

FOR LAB USE ONLY: LAB #: AWA0838; Refrigerator location: V H92; Received into LIMS: LAH

Please view Back side for contracted items

ANALYTICAL SERVICES, INC.

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PAGE: 2 OF 2

CLIENT NAME: Republic Services of NC, LLC
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 1220 Commerce Street, SW, Conover, NC 28613
ATTENTION: Mr. Ray Hoffman
CC: dgardner@joyceengineering.com
REQUESTED COMPLETION DATE: Standard
PO #: Required
PROJECT NAME/STATE: East Carolina Regional Landfill
PERMIT #: 08-03

ANALYSIS REQUESTED — Container type / Preservation: P 7 (NC Appl. I VOC); P 2 (NC Appl. I Metals); G 2; P 3; V 1

DATE	TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS	NC Appl. I VOC	NC Appl. I Metals	LAB I.D. NUMBER
1/28/13	1100	SW		X	0803-SW1	4	X	X	12
↓	1135	SW		X	0803-SW2	↓	X	X	13
↓	1145	SW		X	0803-SW3	↓	X	X	14
↓	1155	SW		X	0803-SW4	↓	X	X	15

CONTAINER TYPE: P - PLASTIC; A - AMBER GLASS; G - CLEAR GLASS; V - VOA VIAL; S - STERILE; O - OTHER

PRESERVATION: 1 - HCl, 4°; 2 - H2SO4, 4°; 3 - HNO3, 4°; 4 - NaOH, 4°; 5 - NaOH/ZnAc, 4°; 6 - Na2S2O3, 4°; 7 - 4°

*MATRIX CODES: DW - DRINKING WATER; WW - WASTEWATER; GW - GROUNDWATER; SW - SURFACE WATER; ST - STORM WATER; W - WATER; S - SOIL; SL - SLUDGE; SO - SOLID; A - AIR; L - LIQUID; P - PRODUCT

REMARKS/ADDITIONAL INFORMATION:

SAMPLED BY AND TITLE: Adam Cox, Robert Winfield — DATE/TIME: See Above 1/28/13
RELINQUISHED BY: [signature] — DATE/TIME: 1/29/13 1600
RECEIVED BY: — DATE/TIME:
RELINQUISHED BY: — DATE/TIME:
RECEIVED BY LAB: [signature] — DATE/TIME: 1/30/13 1155
SAMPLE SHIPPED VIA: UPS FEDEX COURIER CLIENT OTHER: (FEDEX circled)
Ice: Yes / No — Temperature: 7°C — Custody Seal: Intact / Broken / Missing — COOLER #:
pH:

FOR LAB USE ONLY
LAB #: AWA0838
In-house location: V Hg2
Entered Into LIMS: CM

Please use Black Ink to complete form

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1220 Commerce Street, SW
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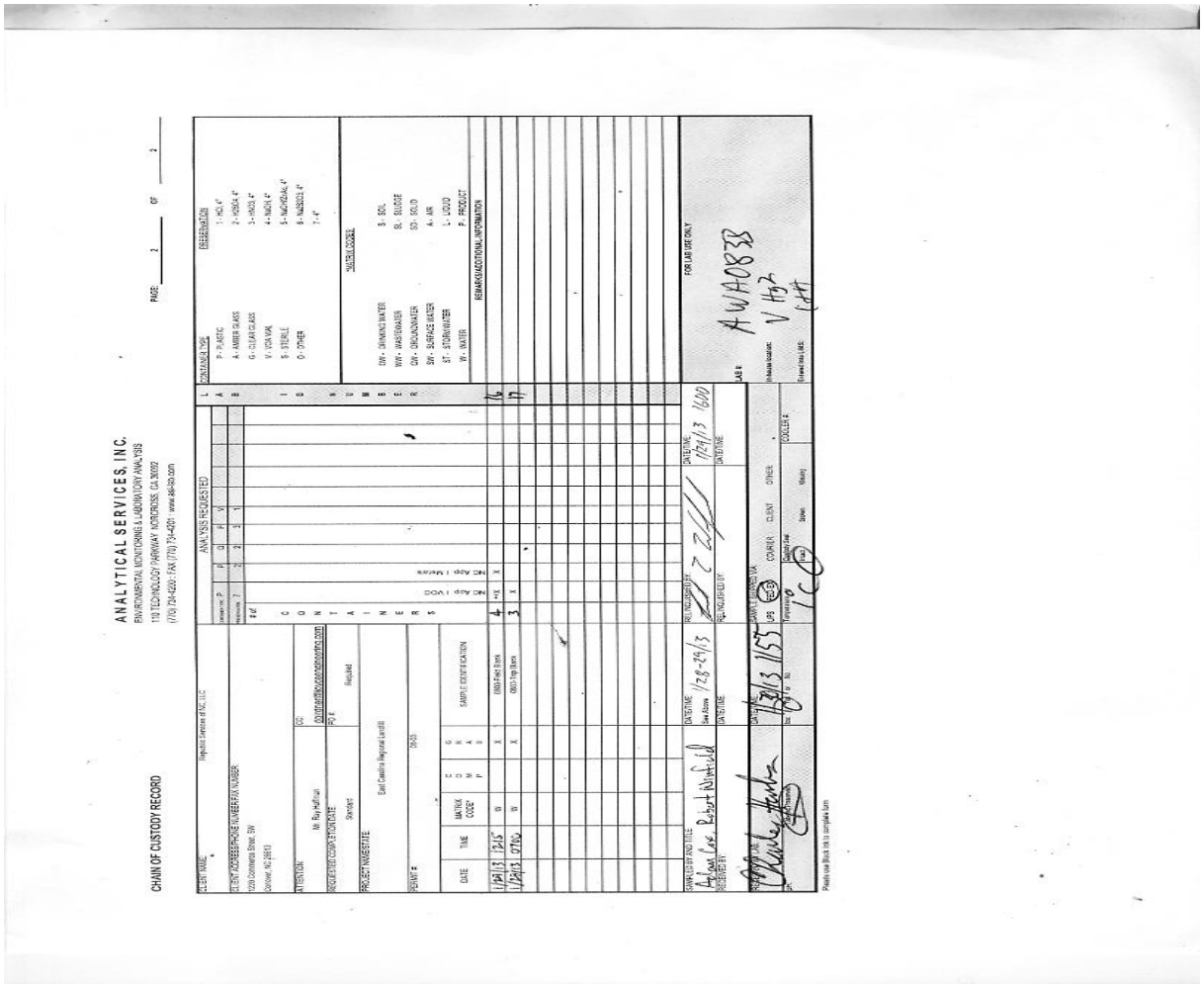
Attention: Mr. Ray Hoffman

February 08, 2013



CHAIN OF CUSTODY RECORD

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PAGE 2 OF 2

CLIENT NAME: Republic Services of NC, LLC

CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 1220 Commerce Street SW, Conover, NC 28613

ATTENTION: Mr. Ray Hoffman

REQUESTED COMPLETION DATE: Standard

PROJECT NAME/STATE: East Catawba Regional Landfill

REPORT #: 75433

DATE	TIME	MATRIX CODE	# CONTAINERS	SAMPLE IDENTIFICATION	Volatiles P	Semivolatiles P	Metals P	Pesticides P	Herbicides P	Arsenic P	Lead P	Zinc P	CONTAINER TYPE	DESIGNATION
1/29/13	1215	W	3	0003-Field Blank								X	P - PLASTIC	1 - HCL 4°
1/29/13	0700	W	3	0003-Trip Blank								X	A - AMBER GLASS	2 - H2SO4 4°
													G - CLEAR GLASS	3 - HNO3 4°
													V - VOA VIAL	4 - NaOH 4°
													S - STERILE	5 - NaOH/ZnAc 4°
													O - OTHER	6 - NaS2O3 4°
														7 - 4°

MATRIX CODES: DW - DRINKING WATER, WW - WASTEWATER, GW - GROUNDWATER, SW - SURFACE WATER, ST - STORM WATER, W - WATER, S - SOIL, SL - SLUDGE, SD - SOLID, A - AIR, L - LIQUID, P - PRODUCT

REMARKS/ADDITIONAL INFORMATION

SAMPLED BY AND TITLE	DATE/TIME	RELINQUISHED BY	DATE/TIME
Aaron Lee, Resident Manager	Sun Above 1/28-29/13		1/29/13 1600
RECEIVED BY	DATE/TIME	RELINQUISHED BY	DATE/TIME
RECEIVED BY	DATE/TIME	RECEIVED BY FOR LABORATORY	
	1/30/13 1155		

FOR LAB USE ONLY

LAB #: AWA0838

Preservation Verified: V H2 [illegible]

Temperature Upon Receipt: 1°C

Custody Seal Intact: Yes / No

Cooler Present: Yes / No

Cooler #: [illegible]

Cooler Temp (°C): [illegible]

Cooler Seal Intact: Yes / No

Cooler Temp (°C): [illegible]

Sample Condition: Acceptable / Unacceptable

Sample Received Via: UPS / FedEx / Courier / Client / Other

Please use Black Ink to complete form

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LOG-IN CHECKLIST **Printed: 2/8/2013 5:53:02PM**

Attn: Mr. Ray Hoffman

Client: Republic Services of North Carolina, LLC
Project: East Carolina Regional Landfill
Date Received: 01/30/13 11:55
Work Order: AWA0838
Logged In By: Charles Hawks

OBSERVATIONS

#Samples: 17 **#Containers:** 75

Minimum Temp(C): 1.0 **Maximum Temp(C):** 1.0 **Custody Seal(s) Used:** Yes

CHECKLIST ITEMS

COC included with Samples	YES
Sample Container(s) Intact	YES
Chain of Custody Complete	YES
Sample Container(s) Match COC	YES
Custody seal Intact	YES
Temperature in Compliance	YES
Sufficient Sample Volume for Analysis	YES
Zero Headspace Maintained for VOA Analyses	YES
Samples labeled preserved (If Applicable)	YES
Samples received within Allowable Hold Times	YES
Samples Received on Ice	YES
Preservation Confirmed	YES

Comments:

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Laboratory Report

Report Number: AWA0837

Project: East Carolina Regional Landfill Leachate

Project #:[none]

Prepared For:
Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover, NC 28613

Attention: Mr. Ray Hoffman

February 08, 2013

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call. Analytical Services, Inc. certifies that the following analytical results meet all requirements of the National Environmental Laboratory Accreditation Conference(NELAC).All test results relate only to the samples analyzed.

Approved:

Judy Wagner
Project Manager

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1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
0803-Leachate	AWA0837-01	Water	01/29/13 11:50	01/30/13 11:55

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Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-Leachate
Lab No: AWA0837-01
Matrix: Water

Project: East Carolina Regional Landfill Leachate
Date/Time Sampled: 01/29/13 11:50
Date/Time Received: 01/30/13 11:55

Report No.: AWA0837

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
General Chemistry												
Biochemical Oxygen Demand	SM 5210 B	SM 5210 B	1820	65.0	5	ug/L		2.0	E-10106	01/31/13 07:35	02/05/13 08:43	3010701
Chemical Oxygen Demand	SM 5220 D	EPA 410.4	4770000	200	20	ug/L		200	E-10117	02/06/13 12:45	02/06/13 17:20	3020105
Cyanide, Total	EPA 9010/9014	EPA 9010	14.0	10.0	1	ug/L		10.0	57-12-5	02/06/13 16:00	02/06/13 19:00	3020126
Oil & Grease (HEM)	EPA 1664B	EPA 1664	6600	5400	1	ug/L		5000	C-007	02/01/13 12:00	02/01/13 12:00	3020017
Total Phenols as Phenol	EPA 420.1	EPA 420.1	3260	100	1	ug/L		100	E-10253	02/07/13 11:00	02/07/13 15:30	3020098
Phosphorus-Total	SM 4500-P B,E	SM 4500-P B	2400	0.22	1.11	ug/L		0.22	7723-14-0	02/06/13 10:30	02/07/13 14:34	3020092
Total Kjeldahl Nitrogen as N	EPA 351.2	EPA 351.2	840000	80.0	10	ug/L		80.0	E-10264	02/06/13 12:40	02/07/13 11:54	3020076
Total Suspended Solids	SM 2540 D	SM 2540 D	46000	5	1	ug/L		5	E-10162	01/31/13 09:30	01/31/13 09:30	3010694
Inorganic Anions												
Nitrate/Nitrite as N	EPA 9056A	EPA 300.0	ND	500	10	ug/L	R-01	500	E-10128	01/31/13 11:06	01/31/13 11:06	3010696
Nitrate as N	EPA 9056A	EPA 300.0	ND	500	10	ug/L	R-01	500	14797-55-8	01/31/13 11:06	01/31/13 11:06	3010696
Nitrite as N	EPA 9056A	EPA 300.0	ND	500	10	ug/L	R-01	500	1594-56-5	01/31/13 11:06	01/31/13 11:06	3010696
Sulfate	EPA 9056A	EPA 300.0	ND	10000	2	ug/L	R-01	10000	14808-79-8	01/31/13 11:47	01/31/13 11:47	3010696
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	31.1	6.00	1	ug/L		0.19	7440-36-0	01/31/13 09:00	02/01/13 01:13	3010695
Arsenic	EPA 6020A	EPA 3005A	192	10.0	1	ug/L		1.20	7440-38-2	01/31/13 09:00	02/01/13 01:13	3010695
Barium	EPA 6020A	EPA 3005A	394	100	1	ug/L		0.49	7440-39-3	01/31/13 09:00	02/01/13 01:13	3010695
Beryllium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.09	7440-41-7	01/31/13 09:00	02/01/13 01:13	3010695
Cadmium	EPA 6020A	EPA 3005A	0.17	1.00	1	ug/L	J	0.06	7440-43-9	01/31/13 09:00	02/01/13 01:13	3010695
Chromium	EPA 6020A	EPA 3005A	121	10.0	1	ug/L		0.71	7440-47-3	01/31/13 09:00	02/01/13 01:13	3010695

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1220 Commerce Street, SW
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Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-Leachate
Lab No: AWA0837-01
Matrix: Water

Project: East Carolina Regional Landfill Leachate
Date/Time Sampled: 01/29/13 11:50
Date/Time Received: 01/30/13 11:55

Report No.: AWA0837

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Cobalt	EPA 6020A	EPA 3005A	21.0	10.0	1	ug/L		0.17	7440-48-4	01/31/13 09:00	02/01/13 01:13	3010695
Copper	EPA 6020A	EPA 3005A	17.3	10.0	1	ug/L		0.18	7440-50-8	01/31/13 09:00	02/01/13 01:13	3010695
Lead	EPA 6020A	EPA 3005A	3.38	10.0	1	ug/L	J	0.09	7439-92-1	01/31/13 09:00	02/01/13 01:13	3010695
Nickel	EPA 6020A	EPA 3005A	95.0	50.0	1	ug/L		0.18	7440-02-0	01/31/13 09:00	02/01/13 01:13	3010695
Selenium	EPA 6020A	EPA 3005A	1.41	10.0	1	ug/L	J	0.54	7782-49-2	01/31/13 09:00	02/08/13 12:09	3010695
Silver	EPA 6020A	EPA 3005A	0.29	10.0	1	ug/L	J	0.10	7440-22-4	01/31/13 09:00	02/01/13 01:13	3010695
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.23	7440-28-0	01/31/13 09:00	02/01/13 01:13	3010695
Vanadium	EPA 6020A	EPA 3005A	130	125	5	ug/L	B-01	8.50	7440-62-2	01/31/13 09:00	02/01/13 00:48	3010695
Zinc	EPA 6020A	EPA 3005A	39.9	10.0	1	ug/L		0.27	7440-66-6	01/31/13 09:00	02/01/13 01:13	3010695
Mercury	EPA 7470A	EPA 7470A	ND	0.200	1	ug/L		0.061	7439-97-6	02/01/13 15:20	02/05/13 15:12	3020029
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	21000	10000	100	ug/L		610	67-64-1	01/31/13 10:00	01/31/13 19:06	3010704
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.9	107-13-1	01/31/13 10:00	01/31/13 19:35	3010704
Benzene	EPA 8260B	EPA 5030B	2.4	1.0	1	ug/L		0.1	71-43-2	01/31/13 10:00	01/31/13 19:35	3010704
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	01/31/13 10:00	01/31/13 19:35	3010704
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-27-4	01/31/13 10:00	01/31/13 19:35	3010704
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.0	75-25-2	01/31/13 10:00	01/31/13 19:35	3010704
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		2.0	74-83-9	01/31/13 10:00	01/31/13 19:35	3010704
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	75-15-0	01/31/13 10:00	01/31/13 19:35	3010704
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	56-23-5	01/31/13 10:00	01/31/13 19:35	3010704
Chlorobenzene	EPA 8260B	EPA 5030B	0.8	3.0	1	ug/L	J	0.3	108-90-7	01/31/13 10:00	01/31/13 19:35	3010704

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1220 Commerce Street, SW
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Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-Leachate
Lab No: AWA0837-01
Matrix: Water

Project: East Carolina Regional Landfill Leachate
Date/Time Sampled: 01/29/13 11:50
Date/Time Received: 01/30/13 11:55

Report No.: AWA0837

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	75-00-3	01/31/13 10:00	01/31/13 19:35	3010704
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	67-66-3	01/31/13 10:00	01/31/13 19:35	3010704
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	74-87-3	01/31/13 10:00	01/31/13 19:35	3010704
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.3	124-48-1	01/31/13 10:00	01/31/13 19:35	3010704
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	01/31/13 10:00	01/31/13 19:35	3010704
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	01/31/13 10:00	01/31/13 19:35	3010704
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	01/31/13 10:00	01/31/13 19:35	3010704
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	0.4	5.0	1	ug/L	J	0.3	95-50-1	01/31/13 10:00	01/31/13 19:35	3010704
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	9.6	1.0	1	ug/L		0.3	106-46-7	01/31/13 10:00	01/31/13 19:35	3010704
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	01/31/13 10:00	01/31/13 19:35	3010704
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-34-3	01/31/13 10:00	01/31/13 19:35	3010704
1,2-Dichloroethane	EPA 8260B	EPA 5030B	1.7	1.0	1	ug/L		0.2	107-06-2	01/31/13 10:00	01/31/13 19:35	3010704
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	01/31/13 10:00	01/31/13 19:35	3010704
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	1.4	5.0	1	ug/L	J	0.2	156-59-2	01/31/13 10:00	01/31/13 19:35	3010704
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	156-60-5	01/31/13 10:00	01/31/13 19:35	3010704
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	78-87-5	01/31/13 10:00	01/31/13 19:35	3010704
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-01-5	01/31/13 10:00	01/31/13 19:35	3010704
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	10061-02-6	01/31/13 10:00	01/31/13 19:35	3010704
Ethylbenzene	EPA 8260B	EPA 5030B	31	1.0	1	ug/L		0.3	100-41-4	01/31/13 10:00	01/31/13 19:35	3010704
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.8	74-88-4	01/31/13 10:00	01/31/13 19:35	3010704
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	41	50	1	ug/L	J	1.3	591-78-6	01/31/13 10:00	01/31/13 19:35	3010704

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(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-Leachate
Lab No: AWA0837-01
Matrix: Water

Project: East Carolina Regional Landfill Leachate
Date/Time Sampled: 01/29/13 11:50
Date/Time Received: 01/30/13 11:55

Report No.: AWA0837

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Methylene Chloride	EPA 8260B	EPA 5030B	0.2	1.0	1	ug/L	J	0.2	75-09-2	01/31/13 10:00	01/31/13 19:35	3010704
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	47000	20000	200	ug/L		270	78-93-3	02/01/13 11:30	02/04/13 17:45	3010704
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	680	500	100	ug/L		130	108-10-1	01/31/13 10:00	01/31/13 19:06	3010704
Styrene	EPA 8260B	EPA 5030B	2.4	1.0	1	ug/L		0.7	100-42-5	01/31/13 10:00	01/31/13 19:35	3010704
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	630-20-6	01/31/13 10:00	01/31/13 19:35	3010704
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	79-34-5	01/31/13 10:00	01/31/13 19:35	3010704
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	127-18-4	01/31/13 10:00	01/31/13 19:35	3010704
Toluene	EPA 8260B	EPA 5030B	33	1.0	1	ug/L		0.2	108-88-3	01/31/13 10:00	01/31/13 19:35	3010704
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	01/31/13 10:00	01/31/13 19:35	3010704
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-00-5	01/31/13 10:00	01/31/13 19:35	3010704
Trichloroethene	EPA 8260B	EPA 5030B	0.2	1.0	1	ug/L	J	0.2	79-01-6	01/31/13 10:00	01/31/13 19:35	3010704
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-69-4	01/31/13 10:00	01/31/13 19:35	3010704
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.9	96-18-4	01/31/13 10:00	01/31/13 19:35	3010704
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.3	108-05-4	01/31/13 10:00	01/31/13 19:35	3010704
Vinyl Chloride	EPA 8260B	EPA 5030B	0.2	1.0	1	ug/L	J	0.2	75-01-4	01/31/13 10:00	01/31/13 19:35	3010704
Xylenes, total	EPA 8260B	EPA 5030B	57	5.0	1	ug/L		0.8	1330-20-7	01/31/13 10:00	01/31/13 19:35	3010704
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	103 %		80-120				1868-53-7	01/31/13 10:00	01/31/13 19:06	3010704
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	95 %		80-120				1868-53-7	02/01/13 11:30	02/04/13 17:45	3010704
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	93 %		80-120				1868-53-7	01/31/13 10:00	01/31/13 19:35	3010704
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	113 %		78-120				17060-07-0	01/31/13 10:00	01/31/13 19:06	3010704
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	99 %		78-120				17060-07-0	02/01/13 11:30	02/04/13 17:45	3010704

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Attention: Mr. Ray Hoffman

February 08, 2013

Client ID: 0803-Leachate
Lab No: AWA0837-01
Matrix: Water

Project: East Carolina Regional Landfill Leachate
Date/Time Sampled: 01/29/13 11:50
Date/Time Received: 01/30/13 11:55

Report No.: AWA0837

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	111 %		78-120				17060-07-0	01/31/13 10:00	01/31/13 19:35	3010704
Surr: Toluene-d8	EPA 8260B	EPA 5030B	101 %		80-120				2037-26-5	01/31/13 10:00	01/31/13 19:06	3010704
Surr: Toluene-d8	EPA 8260B	EPA 5030B	97 %		80-120				2037-26-5	01/31/13 10:00	01/31/13 19:35	3010704
Surr: Toluene-d8	EPA 8260B	EPA 5030B	98 %		80-120				2037-26-5	02/01/13 11:30	02/04/13 17:45	3010704
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	99 %		80-120				460-00-4	01/31/13 10:00	01/31/13 19:06	3010704
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	99 %		80-120				460-00-4	02/01/13 11:30	02/04/13 17:45	3010704
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	100 %		80-120				460-00-4	01/31/13 10:00	01/31/13 19:35	3010704

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010694 - SM 2540 D										
Blank (3010694-BLK1)							Prepared & Analyzed: 01/31/13			
Total Suspended Solids	ND	5000	ug/L							
LCS (3010694-BS1)							Prepared & Analyzed: 01/31/13			
Total Suspended Solids	102000	10000	ug/L	100000		102	85-110			
Duplicate (3010694-DUP1)		**Source: AWA0825-02**					Prepared & Analyzed: 01/31/13			
Total Suspended Solids	55000	10000	ug/L		55000			0	40	
Duplicate (3010694-DUP2)		**Source: AWA0827-01**					Prepared & Analyzed: 01/31/13			
Total Suspended Solids	18000	5000	ug/L		16000			12	40	
Batch 3010701 - SM 5210 B										
Blank (3010701-BLK1)							Prepared: 01/31/13 Analyzed: 02/05/13			
Biochemical Oxygen Demand	ND	2000	ug/L							
LCS (3010701-BS1)							Prepared: 01/31/13 Analyzed: 02/05/13			
Biochemical Oxygen Demand	207000	2000	ug/L	198000		105	85-115			
Duplicate (3010701-DUP1)		**Source: AWA0881-01**					Prepared: 01/31/13 Analyzed: 02/05/13			
Biochemical Oxygen Demand	174000	13000	ug/L		185000			6	20	
Batch 3020017 - EPA 1664										
Blank (3020017-BLK1)							Prepared & Analyzed: 02/01/13			
Oil & Grease (HEM)	ND	5000	ug/L							

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3020017 - EPA 1664										
LCS (3020017-BS1)							Prepared & Analyzed: 02/01/13			
Oil & Grease (HEM)	37000	5000	ug/L	40000		92	78-114			
Duplicate (3020017-DUP1)		**Source: AWA0850-01**					Prepared & Analyzed: 02/01/13			
Oil & Grease (HEM)	ND	5900	ug/L		ND				75	
Matrix Spike (3020017-MS1)		**Source: AWA0857-02**					Prepared & Analyzed: 02/01/13			
Oil & Grease (HEM)	36000	5700	ug/L	40000	ND	89	78-114			
Batch 3020076 - EPA 351.2										
Blank (3020076-BLK1)							Prepared: 02/06/13 Analyzed: 02/07/13			
Total Kjeldahl Nitrogen as N	ND	0.4	ug/L							
LCS (3020076-BS1)							Prepared: 02/06/13 Analyzed: 02/07/13			
Total Kjeldahl Nitrogen as N	9880	400	ug/L	10000		99	90-110			
Matrix Spike (3020076-MS1)		**Source: AWA0787-01**					Prepared: 02/06/13 Analyzed: 02/07/13			
Total Kjeldahl Nitrogen as N	10100	400	ug/L	10000	ND	101	90-110			
Matrix Spike (3020076-MS2)		**Source: AWA0787-02**					Prepared: 02/06/13 Analyzed: 02/07/13			
Total Kjeldahl Nitrogen as N	10100	400	ug/L	10000	ND	101	90-110			
Batch 3020092 - SM 4500-P B										
Blank (3020092-BLK1)							Prepared: 02/06/13 Analyzed: 02/07/13			
Phosphorus-Total	ND	0.02	ug/L							

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3020092 - SM 4500-P B										
LCS (3020092-BS1)							Prepared: 02/06/13 Analyzed: 02/07/13			
Phosphorus-Total	3920	200	ug/L	4000.0		98	88-110			
Duplicate (3020092-DUP1)		**Source: AWB0103-01**					Prepared: 02/06/13 Analyzed: 02/07/13			
Phosphorus-Total	7860	222	ug/L		8110			3	47	
Matrix Spike (3020092-MS1)		**Source: AWB0114-01**					Prepared: 02/06/13 Analyzed: 02/07/13			
Phosphorus-Total	5120	200	ug/L	4000.0	930	105	72-123			
Matrix Spike Dup (3020092-MSD1)		**Source: AWB0114-01**					Prepared: 02/06/13 Analyzed: 02/07/13			
Phosphorus-Total	5260	200	ug/L	4000.0	930	108	72-123	3	11	
Batch 3020098 - EPA 420.1										
Blank (3020098-BLK1)							Prepared & Analyzed: 02/07/13			
Total Phenols as Phenol	ND	50.0	ug/L							
LCS (3020098-BS1)							Prepared & Analyzed: 02/07/13			
Total Phenols as Phenol	513	50.0	ug/L	500.00		103	80-120			
Matrix Spike (3020098-MS1)		**Source: AWA0818-01**					Prepared & Analyzed: 02/07/13			
Total Phenols as Phenol	549	50.0	ug/L	500.00	ND	110	80-120			
Matrix Spike Dup (3020098-MSD1)		**Source: AWA0818-01**					Prepared & Analyzed: 02/07/13			
Total Phenols as Phenol	556	50.0	ug/L	500.00	ND	111	80-120	1	20	
Batch 3020105 - EPA 410.4										
Blank (3020105-BLK1)							Prepared & Analyzed: 02/06/13			
Chemical Oxygen Demand	5830	10000	ug/L							J

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3020105 - EPA 410.4										
LCS (3020105-BS1)							Prepared & Analyzed: 02/06/13			
Chemical Oxygen Demand	218000	10000	ug/L	200000		109	90-110			
Matrix Spike (3020105-MS1)		**Source: AWA0903-01**					Prepared & Analyzed: 02/06/13			
Chemical Oxygen Demand	651000	10000	ug/L	200000	444000	103	90-110			
Matrix Spike Dup (3020105-MSD1)		**Source: AWA0903-01**					Prepared & Analyzed: 02/06/13			
Chemical Oxygen Demand	653000	10000	ug/L	200000	444000	104	90-110	0.4	10	
Batch 3020126 - EPA 9010										
Blank (3020126-BLK1)							Prepared & Analyzed: 02/06/13			
Cyanide, Total	ND	10.0	ug/L							
LCS (3020126-BS1)							Prepared & Analyzed: 02/06/13			
Cyanide, Total	80.0	10.0	ug/L	80.000		100	85-115			
Duplicate (3020126-DUP1)		**Source: AWA0837-01**					Prepared & Analyzed: 02/06/13			
Cyanide, Total	14.0	10.0	ug/L		14.0			0	20	
Matrix Spike (3020126-MS1)		**Source: AWA0852-02**					Prepared & Analyzed: 02/06/13			
Cyanide, Total	66.0	10.0	ug/L	80.000	ND	82	85-119			QM-05
Matrix Spike Dup (3020126-MSD1)		**Source: AWA0852-02**					Prepared & Analyzed: 02/06/13			
Cyanide, Total	67.0	10.0	ug/L	80.000	ND	84	85-119	2	13	QM-05

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Inorganic Anions - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010696 - EPA 300.0										
Blank (3010696-BLK1)							Prepared & Analyzed: 01/30/13			
Nitrate/Nitrite as N	ND	50	ug/L							
Nitrate as N	ND	50	ug/L							
Nitrite as N	ND	50	ug/L							
Sulfate	ND	5000	ug/L							
LCS (3010696-BS1)							Prepared & Analyzed: 01/31/13			
Nitrate/Nitrite as N	20000	50	ug/L	20000		100	90-110			
Nitrate as N	9820	50	ug/L	10000		98	90-110			
Nitrite as N	10200	50	ug/L	10000		102	90-110			
Sulfate	9940	5000	ug/L	10000		99	90-110			
Matrix Spike (3010696-MS1)	**Source: AWA0830-02**						Prepared & Analyzed: 01/31/13			
Nitrate/Nitrite as N	21300	50	ug/L	20000	1380	100	90-110			
Nitrate as N	10600	50	ug/L	10000	828	97	90-110			
Nitrite as N	10700	50	ug/L	10000	551	102	90-110			
Sulfate	19600	5000	ug/L	10000	10600	90	90-110			
Matrix Spike Dup (3010696-MSD1)	**Source: AWA0830-02**						Prepared & Analyzed: 01/31/13			
Nitrate/Nitrite as N	21300	50	ug/L	20000	1380	99	90-110	0.1	15	
Nitrate as N	10600	50	ug/L	10000	828	97	90-110	0.04	15	
Nitrite as N	10700	50	ug/L	10000	551	101	90-110	0.3	15	
Sulfate	19600	5000	ug/L	10000	10600	90	90-110	0.1	15	

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February 08, 2013

Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010695 - EPA 3005A										
Blank (3010695-BLK1)							Prepared & Analyzed: 01/31/13			
Antimony	ND	6.00	ug/L							
Arsenic	ND	10.0	ug/L							
Barium	ND	100	ug/L							
Beryllium	ND	1.00	ug/L							
Cadmium	ND	1.00	ug/L							
Chromium	ND	10.0	ug/L							
Cobalt	ND	10.0	ug/L							
Copper	ND	10.0	ug/L							
Lead	ND	10.0	ug/L							
Nickel	ND	50.0	ug/L							
Selenium	ND	10.0	ug/L							
Silver	ND	10.0	ug/L							
Thallium	ND	5.50	ug/L							
Vanadium	2.68	25.0	ug/L							J
Zinc	ND	10.0	ug/L							
LCS (3010695-BS1)							Prepared & Analyzed: 01/31/13			
Antimony	106	6.00	ug/L	100.00		106	80-120			
Arsenic	103	10.0	ug/L	100.00		103	80-120			
Barium	95.7	100	ug/L	100.00		96	80-120			J
Beryllium	104	1.00	ug/L	100.00		104	80-120			
Cadmium	104	1.00	ug/L	100.00		104	80-120			
Chromium	101	10.0	ug/L	100.00		101	80-120			
Cobalt	103	10.0	ug/L	100.00		103	80-120			
Copper	102	10.0	ug/L	100.00		102	80-120			
Lead	99.9	10.0	ug/L	100.00		100	80-120			
Nickel	103	50.0	ug/L	100.00		103	80-120			

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Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010695 - EPA 3005A										
LCS (3010695-BS1)							Prepared & Analyzed: 01/31/13			
Selenium	101	10.0	ug/L	100.00		101	80-120			
Silver	101	10.0	ug/L	100.00		101	80-120			
Thallium	99.7	5.50	ug/L	100.00		100	80-120			
Vanadium	102	25.0	ug/L	100.00		102	80-120			
Zinc	102	10.0	ug/L	100.00		102	80-120			
Matrix Spike (3010695-MS1)	**Source: AWA0838-02**						Prepared & Analyzed: 01/31/13			
Antimony	105	6.00	ug/L	100.00	0.40	105	75-125			
Arsenic	98.3	10.0	ug/L	100.00	ND	98	75-125			
Barium	165	100	ug/L	100.00	72.0	93	75-125			
Beryllium	103	1.00	ug/L	100.00	2.01	101	75-125			
Cadmium	102	1.00	ug/L	100.00	ND	102	75-125			
Chromium	98.0	10.0	ug/L	100.00	2.06	96	75-125			
Cobalt	132	10.0	ug/L	100.00	33.3	99	75-125			
Copper	98.4	10.0	ug/L	100.00	1.13	97	75-125			
Lead	97.4	10.0	ug/L	100.00	1.14	96	75-125			
Nickel	107	50.0	ug/L	100.00	9.57	97	75-125			
Selenium	98.2	10.0	ug/L	100.00	1.10	97	75-125			
Silver	99.0	10.0	ug/L	100.00	0.34	99	75-125			
Thallium	96.2	5.50	ug/L	100.00	ND	96	75-125			
Vanadium	97.1	25.0	ug/L	100.00	ND	97	75-125			
Zinc	101	10.0	ug/L	100.00	4.76	96	75-125			
Matrix Spike Dup (3010695-MSD1)	**Source: AWA0838-02**						Prepared & Analyzed: 01/31/13			
Antimony	104	6.00	ug/L	100.00	0.40	103	75-125	1	20	
Arsenic	97.0	10.0	ug/L	100.00	ND	97	75-125	1	20	
Barium	164	100	ug/L	100.00	72.0	92	75-125	0.4	20	

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February 08, 2013

Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010695 - EPA 3005A										
Matrix Spike Dup (3010695-MSD1)		**Source: AWA0838-02**					Prepared & Analyzed: 01/31/13			
Beryllium	99.3	1.00	ug/L	100.00	2.01	97	75-125	3	20	
Cadmium	100	1.00	ug/L	100.00	ND	100	75-125	2	20	
Chromium	96.1	10.0	ug/L	100.00	2.06	94	75-125	2	20	
Cobalt	129	10.0	ug/L	100.00	33.3	96	75-125	2	20	
Copper	95.8	10.0	ug/L	100.00	1.13	95	75-125	3	20	
Lead	97.1	10.0	ug/L	100.00	1.14	96	75-125	0.3	20	
Nickel	104	50.0	ug/L	100.00	9.57	95	75-125	2	20	
Selenium	96.5	10.0	ug/L	100.00	1.10	95	75-125	2	20	
Silver	97.0	10.0	ug/L	100.00	0.34	97	75-125	2	20	
Thallium	96.5	5.50	ug/L	100.00	ND	97	75-125	0.4	20	
Vanadium	98.1	25.0	ug/L	100.00	ND	98	75-125	1	20	
Zinc	100	10.0	ug/L	100.00	4.76	95	75-125	1	20	
Post Spike (3010695-PS1)		**Source: AWA0838-02**					Prepared & Analyzed: 01/31/13			
Antimony	92.8		ug/L	100.00	0.40	92	80-120			
Arsenic	97.2		ug/L	100.00	-1.73	99	80-120			
Barium	165		ug/L	100.00	72.0	93	80-120			
Beryllium	100		ug/L	100.00	2.01	98	80-120			
Cadmium	101		ug/L	100.00	0.05	101	80-120			
Chromium	95.9		ug/L	100.00	2.06	94	80-120			
Cobalt	129		ug/L	100.00	33.3	95	80-120			
Copper	96.1		ug/L	100.00	1.13	95	80-120			
Lead	97.5		ug/L	100.00	1.14	96	80-120			
Nickel	104		ug/L	100.00	9.57	95	80-120			
Selenium	97.5		ug/L	100.00	1.10	96	80-120			
Silver	97.9		ug/L	100.00	0.34	98	80-120			
Thallium	96.4		ug/L	100.00	-0.04	96	80-120			

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Republic Services of North Carolina, LLC
1220 Commerce Street, SW
Conover NC, 28613

Attention: Mr. Ray Hoffman

February 08, 2013

Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010695 - EPA 3005A										
Post Spike (3010695-PS1)		**Source: AWA0838-02**					Prepared & Analyzed: 01/31/13			
Vanadium	96.0		ug/L	100.00	0.78	95	80-120			
Zinc	100		ug/L	100.00	4.76	95	80-120			
Batch 3020029 - EPA 7470A										
Blank (3020029-BLK1)							Prepared: 02/04/13 Analyzed: 02/05/13			
Mercury	ND	0.200	ug/L							
LCS (3020029-BS1)							Prepared: 02/04/13 Analyzed: 02/05/13			
Mercury	2.41	0.200	ug/L	2.5000		96	80-120			
Matrix Spike (3020029-MS1)		**Source: AWA0904-12**					Prepared: 02/04/13 Analyzed: 02/05/13			
Mercury	3.87	0.200	ug/L	2.5000	1.50	95	75-125			
Matrix Spike Dup (3020029-MSD1)		**Source: AWA0904-12**					Prepared: 02/04/13 Analyzed: 02/05/13			
Mercury	3.62	0.200	ug/L	2.5000	1.50	85	75-125	7	20	
Post Spike (3020029-PS1)		**Source: AWA0904-12**					Prepared: 02/04/13 Analyzed: 02/05/13			
Mercury	2.48		ug/L	1.6667	1.00	89	80-120			

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February 08, 2013

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010704 - EPA 5030B										
Blank (3010704-BLK1)							Prepared & Analyzed: 01/31/13			
Acetone	ND	100	ug/L							
Acrylonitrile	ND	200	ug/L							
Benzene	ND	1.0	ug/L							
Bromochloromethane	ND	3.0	ug/L							
Bromodichloromethane	ND	1.0	ug/L							
Bromoform	ND	3.0	ug/L							
Bromomethane	ND	10	ug/L							
Carbon Disulfide	ND	100	ug/L							
Carbon Tetrachloride	ND	1.0	ug/L							
Chlorobenzene	ND	3.0	ug/L							
Chloroethane	ND	10	ug/L							
Chloroform	ND	5.0	ug/L							
Chloromethane	ND	1.0	ug/L							
Dibromochloromethane	ND	3.0	ug/L							
1,2-Dibromo-3-chloropropane	ND	13	ug/L							
1,2-Dibromoethane	ND	1.0	ug/L							
Dibromomethane	ND	10	ug/L							
1,2-Dichlorobenzene	ND	5.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
trans-1,4-Dichloro-2-butene	ND	100	ug/L							
1,1-Dichloroethane	ND	5.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	5.0	ug/L							
cis-1,2-Dichloroethene	ND	5.0	ug/L							
trans-1,2-Dichloroethene	ND	5.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
cis-1,3-Dichloropropene	ND	1.0	ug/L							

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February 08, 2013

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010704 - EPA 5030B										
Blank (3010704-BLK1)							Prepared & Analyzed: 01/31/13			
trans-1,3-Dichloropropene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
Iodomethane	ND	10	ug/L							
Methyl Butyl Ketone (2-Hexanone)	ND	50	ug/L							
Methylene Chloride	ND	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	ND	100	ug/L							
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L							
Styrene	ND	1.0	ug/L							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	3.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							
Toluene	ND	1.0	ug/L							
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
Trichloroethene	ND	1.0	ug/L							
Trichlorofluoromethane	ND	1.0	ug/L							
1,2,3-Trichloropropane	ND	1.0	ug/L							
Vinyl Acetate	ND	50	ug/L							
Vinyl Chloride	ND	1.0	ug/L							
Xylenes, total	ND	5.0	ug/L							
Surr: Dibromofluoromethane	*49*		*ug/L*	*50.000*		*98*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*52*		*ug/L*	*50.000*		*104*	*78-120*			
Surr: Toluene-d8	*50*		*ug/L*	*50.000*		*100*	*80-120*			
Surr: 4-Bromofluorobenzene	*49*		*ug/L*	*50.000*		*98*	*80-120*			
Blank (3010704-BLK2)							Prepared: 02/01/13 Analyzed: 02/04/13			

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February 08, 2013

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010704 - EPA 5030B										
Blank (3010704-BLK2)							Prepared: 02/01/13 Analyzed: 02/04/13			
Acetone	ND	100	ug/L							
Acrylonitrile	ND	200	ug/L							
Benzene	ND	1.0	ug/L							
Bromochloromethane	ND	3.0	ug/L							
Bromodichloromethane	ND	1.0	ug/L							
Bromoform	ND	3.0	ug/L							
Bromomethane	ND	10	ug/L							
Carbon Disulfide	ND	100	ug/L							
Carbon Tetrachloride	ND	1.0	ug/L							
Chlorobenzene	ND	3.0	ug/L							
Chloroethane	ND	10	ug/L							
Chloroform	0.4	5.0	ug/L							J
Chloromethane	ND	1.0	ug/L							
Dibromochloromethane	ND	3.0	ug/L							
1,2-Dibromo-3-chloropropane	ND	13	ug/L							
1,2-Dibromoethane	ND	1.0	ug/L							
Dibromomethane	ND	10	ug/L							
1,2-Dichlorobenzene	ND	5.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
trans-1,4-Dichloro-2-butene	ND	100	ug/L							
1,1-Dichloroethane	ND	5.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	5.0	ug/L							
cis-1,2-Dichloroethene	ND	5.0	ug/L							
trans-1,2-Dichloroethene	ND	5.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
cis-1,3-Dichloropropene	ND	1.0	ug/L							

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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010704 - EPA 5030B										
Blank (3010704-BLK2)							Prepared: 02/01/13 Analyzed: 02/04/13			
trans-1,3-Dichloropropene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
Iodomethane	ND	10	ug/L							
Methyl Butyl Ketone (2-Hexanone)	ND	50	ug/L							
Methylene Chloride	ND	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	ND	100	ug/L							
4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/L							
Styrene	ND	1.0	ug/L							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	3.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							
Toluene	ND	1.0	ug/L							
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
Trichloroethene	ND	1.0	ug/L							
Trichlorofluoromethane	ND	1.0	ug/L							
1,2,3-Trichloropropane	ND	1.0	ug/L							
Vinyl Acetate	ND	50	ug/L							
Vinyl Chloride	ND	1.0	ug/L							
Xylenes, total	ND	5.0	ug/L							
Surr: Dibromofluoromethane	*47*		*ug/L*	*50.000*		*94*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*48*		*ug/L*	*50.000*		*97*	*78-120*			
Surr: Toluene-d8	*49*		*ug/L*	*50.000*		*97*	*80-120*			
Surr: 4-Bromofluorobenzene	*50*		*ug/L*	*50.000*		*100*	*80-120*			
LCS (3010704-BS1)							Prepared & Analyzed: 01/31/13			

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February 08, 2013

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010704 - EPA 5030B										
LCS (3010704-BS1)							Prepared & Analyzed: 01/31/13			
Benzene	43		ug/L	50.000		86	67-134			
Chlorobenzene	46		ug/L	50.000		91	69-122			
1,1-Dichloroethene	45		ug/L	50.000		89	58-142			
Toluene	41		ug/L	50.000		82	68-127			
Trichloroethene	46		ug/L	50.000		91	72-132			
Surr: Dibromofluoromethane	*49*		*ug/L*	*50.000*		*98*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*52*		*ug/L*	*50.000*		*104*	*78-120*			
Surr: Toluene-d8	*50*		*ug/L*	*50.000*		*100*	*80-120*			
Surr: 4-Bromofluorobenzene	*49*		*ug/L*	*50.000*		*98*	*80-120*			
Matrix Spike (3010704-MS1)	**Source: AWA0854-01**						Prepared & Analyzed: 01/31/13			
Benzene	43		ug/L	50.000	ND	86	67-134			
Chlorobenzene	45		ug/L	50.000	ND	91	69-122			
1,1-Dichloroethene	45		ug/L	50.000	0.2	90	58-142			
Toluene	42		ug/L	50.000	ND	84	68-127			
Trichloroethene	46		ug/L	50.000	ND	93	72-132			
Surr: Dibromofluoromethane	*48*		*ug/L*	*50.000*		*96*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*52*		*ug/L*	*50.000*		*104*	*78-120*			
Surr: Toluene-d8	*50*		*ug/L*	*50.000*		*101*	*80-120*			
Surr: 4-Bromofluorobenzene	*50*		*ug/L*	*50.000*		*100*	*80-120*			
Matrix Spike Dup (3010704-MSD1)	**Source: AWA0854-01**						Prepared & Analyzed: 01/31/13			
Benzene	42		ug/L	50.000	ND	84	67-134	2	9	
Chlorobenzene	44		ug/L	50.000	ND	88	69-122	3	13	
1,1-Dichloroethene	44		ug/L	50.000	0.2	88	58-142	3	9	

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Attention: Mr. Ray Hoffman

February 08, 2013

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3010704 - EPA 5030B										
Matrix Spike Dup (3010704-MSD1)		**Source: AWA0854-01**					Prepared & Analyzed: 01/31/13			
Toluene	41		ug/L	50.000	ND	81	68-127	4	9	
Trichloroethene	44		ug/L	50.000	ND	88	72-132	5	11	
Surr: Dibromofluoromethane	*48*		*ug/L*	*50.000*		*95*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*52*		*ug/L*	*50.000*		*104*	*78-120*			
Surr: Toluene-d8	*50*		*ug/L*	*50.000*		*101*	*80-120*			
Surr: 4-Bromofluorobenzene	*50*		*ug/L*	*50.000*		*101*	*80-120*			

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February 08, 2013

Laboratory Certifications

Code	Description	Number	Expires
LA	Louisiana	02069	06/30/2013
NC	North Carolina	381	12/31/2013
NELAC	NELAC (Non-Potable Water, Solids)	E87315	06/30/2013
SC	South Carolina	98011001	06/30/2013
TX	Texas	T104704397-08-TX	03/31/2013
VA	Virginia	1340	12/14/2013

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February 08, 2013

Legend

Defination of Laboratory Terms

ND - Not Detected at levels greater than or equal to SWSL/RL
SWSL/RL - NC DENR Solid Waste Section LImit/Reporting Limit (Adjusted for DF/Prep Factor)
DF - Dilution Factor
MDL - Method Detection Limit

Qualifiers

R-01 Elevated reporting limit due to matrix interference.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD and/or PDS due to suspected matrix interference. Sample results for the QC batch were accepted based on acceptable LCS recoveries.

J Estimated value less than Reporting Limit (RL) but greater than Method Detection Limit(MDL) (CLP J-Flag).

B-01 Analyte was detected in the associated method blank at an estimated level equal to or greater than the MDL. Sample values reported as greater than the MDL and less than 10x the method blank value are reported as estimated values.

Note: Unless otherwise noted, all results are reported on an as received basis.

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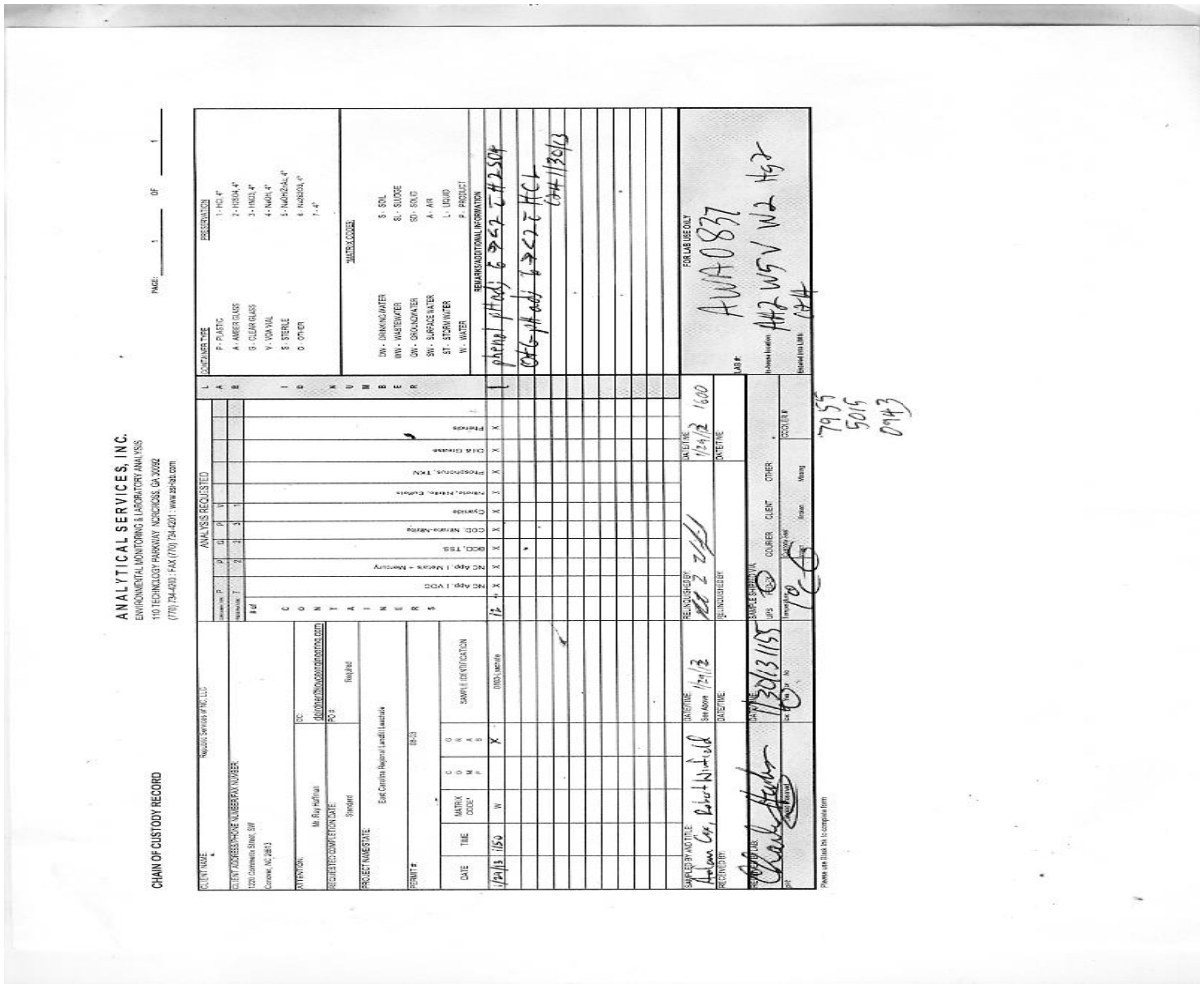
February 08, 2013



CHAIN OF CUSTODY RECORD

ANALYTICAL SERVICES, INC.
ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY NORCROSS, GA 30092
(770) 734-4200 - FAX (770) 734-4201 - www.asi-lab.com

PAGE: 1 OF 1

CLIENT NAME: Republic Services of NC, LLC
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 1220 Commerce Street SW, Conover, NC 28613
ATTENTION: Mr. Ray Hoffman
EDD: Allyson@RepublicServices.com
RECEIPT REQUIRED/COMPLETION DATE: PO #: Required
PROJECT NAME/STATE: East Carolina Regional Landfill Lawsuit
PERMIT #: BI-33

ANALYSIS REQUESTED

DATE	TIME	MATRIX CODE	COMPOSITE	GRAB	SAMPLE IDENTIFICATION	Chlorides (mg/L) 7	NO Appl. 1 VOC	NO Appl. 1 Metals + Mercury	BOD, TSS	COD, Nitrate-Nitrite	Cyanide	Nitrate, Nitrite, Sulfate	Phenolics, TKN	Oil & Grease	Phenols
1/24/13	1150	W		X	MW3-Leachate	12	X	X	X	X	X	X	X	X	X

CONTAINER TYPE: P - PLASTIC; A - AMBER GLASS; G - CLEAR GLASS; V - VOA VIAL; S - STERILE; O - OTHER

PRESERVATION: 1 - HCL 4°; 2 - H2SO4 4°; 3 - HNO3 4°; 4 - NaOH 4°; 5 - NaOH+Zn Ac 4°; 6 - Na2SO3 4°; 7 - 4°

MATRIX CODES: DW - DRINKING WATER; WW - WASTEWATER; GW - GROUNDWATER; SW - SURFACE WATER; ST - STORM WATER; W - WATER; S - SOIL; SL - SLUDGE; SO - SOLID; A - AIR; L - LIQUID; P - PRODUCT

REMARKS/ADDITIONAL INFORMATION: 1 preservative pH adj. to pH<2 w/ H2SO4 (pH=1) 1 preservative pH adj. to pH<2 w/ HCL (pH=1) 1/29/13

SAMPLED BY AND TITLE: Jackson Co. Field Tech
DATE/TIME: 1/24/13
RELINQUISHED BY: Sam Moore
DATE/TIME: 1/24/13 1600
RECEIVED BY: Sam Moore
DATE/TIME:
RELINQUISHED BY: Sam Moore
DATE/TIME:
RECEIVED BY: Sam Moore
DATE/TIME: 1/30/13 1115
SAMPLE SHIPMENT: UPS FedEx COURIER CLIENT OTHER
Tracking #: 7955 5015 0443
Cooler Temp: 7.8
Seal Intact: Yes
COOLER #:

FOR LAB USE ONLY: AWA0837
LAB #: AWA0837 W2 H2 SW
Preservation Verification: pH
Received into LIMS: pH

Please use black ink to complete form

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

LOG-IN CHECKLIST **Printed: 2/8/2013 5:48:33PM**

Attn: Mr. Ray Hoffman

Client: Republic Services of North Carolina, LLC
Project: East Carolina Regional Landfill Leachate
Date Received: 01/30/13 11:55
Work Order: AWA0837
Logged In By: Charles Hawks

OBSERVATIONS

#Samples: 1 **#Containers:** 12

Minimum Temp(C): 1.0 **Maximum Temp(C):** 1.0 **Custody Seal(s) Used:** Yes

CHECKLIST ITEMS

COC included with Samples	YES
Sample Container(s) Intact	YES
Chain of Custody Complete	YES
Sample Container(s) Match COC	YES
Custody seal Intact	YES
Temperature in Compliance	YES
Sufficient Sample Volume for Analysis	YES
Zero Headspace Maintained for VOA Analyses	YES
Samples labeled preserved (If Applicable)	YES
Samples received within Allowable Hold Times	NO
Samples Received on Ice	YES
Preservation Confirmed	YES

Comments:

The Phenol sample was pH adjusted from 6 to <2 with H2SO4 lot# 013. The O&G sample was pH adjusted from 6 to <2 with HCL lot# 2211580. CFH

Appendix C

Summary Table and Statistical Analyses Worksheets

Summary of Statistical Analyses
East Carolina Regional Landfill, Permit No. 08-03
Bertie County, North Carolina

Constituent	NC 2L	GWPS	Data Distribution	Statistical Method used to Establish Background	Calculated Background Concentration	Highest Reported Concentration for January 2013 and Well	Noted SSI Increase
Cobalt	N/E	1	Log Normal	Upper Tolerance Limit - Interwell	55.4 ug/L	33.3 ug/L GW-7	None
Cobalt	N/E	1	Log Normal	Upper Tolerance Limit - Intrawell	48.3 ug/L	33.3 ug/L GW-7	None

Notes:
1. Concentrations are in micrograms per liter (µg/L).
2. NC 2L = North Carolina 2L Groundwater Standard.
3. GWPS = Groundwater Protect Standard.
4. SSI = Statistically significant increase.
5. N/E = Not established.
5. N/A = Not applicable.

Joyce Project: **East Carolina Regional Landfill**
Project No: **894.1301.12**
Task No: **02**
Date: **28-Jan-13**

Analyte: **Cobalt**

Sample No.	Sample Date	Location	Concentration (ug/L)	QL	Sorted Concentration (ug/L)	
1	28-Oct-98	GW-2	ND		8.59	12.6
2	07-Apr-99	GW-2	ND		9.50	12.5
3	08-Dec-99	GW-2	10		9.53	12.0
4	27-Apr-00	GW-2	ND		9.65	11.9
5	18-Oct-00	GW-2	ND		9.76	11.4
6	19-Apr-01	GW-2	ND		10	11.3
7	24-Dec-01	GW-2	ND		10	10.4
8	23-Apr-02	GW-2	ND		10	10.3
9	23-Oct-02	GW-2	ND		10.0	10.1
10	01-Apr-03	GW-2	10		10.1	10
11	28-Oct-03	GW-2	ND		10.3	10
12	27-Apr-04	GW-2	ND		10.4	10
13	26-Oct-04	GW-2	ND		11.3	10.0
14	15-Mar-05	GW-2	10		11.4	9.76
15	12-Jul-05	GW-2	ND		11.9	9.65
16	19-Jan-06	GW-2	11.9		12.0	9.53
17	11-Jul-06	GW-2	12.5		12.5	9.50
18	17-Jan-07	GW-2	10.3		12.6	8.59
19	09-Jul-07	GW-2	10.0			
20	14-Jan-08	GW-2	11.3			
21	14-Jul-08	GW-2	10.1			
22	19-Jan-09	GW-2	12.0			
23	20-Jul-09	GW-2	11.4			
24	25-Jan-10	GW-2	12.6			
25	06-Jul-10	GW-2	8.59	J		
26	04-Jan-11	GW-2	9.65	J		
27	05-Jul-11	GW-2	10.4			
28	09-Jan-12	GW-2	9.51	J		
29	09-Jul-12	GW-2	9.76	J		
30	28-Jan-13	GW-2	9.53	J		

Number of Data:	30
Number of Truncated Data:	12
Percentage of Truncated Data:	40%

Upper Tolerance Limit **55.4** **µg/L**

All concentrations in micrograms per liter (µg/L).
B = Blank qualified data not used in statistical calculations.
J = Estimated concentration below quantification limit.

JOYCE Project: **East Carolina Regional Landfill**
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Probability Plots to determine the distribution of **Cobalt**

Complete the following table where

i = ordered value of sample, arranged from smallest to largest
X(i) = sample values arranged from smallest to largest
LN[X(i)] = Natural Log Value of sample concentrations arranged from smallest to largest
[i/(n+1)] = Cumulative probability
n = number of samples = 18

X(i)	LN[X(i)]	i	Rank	[Rank/(n+1)]	Quantiles
8.59	2.15	1	1	0.053	-1.62
9.5	2.25	2	2	0.105	-1.25
9.53	2.25	3	3	0.158	-1.00
9.65	2.27	4	4	0.211	-0.80
9.76	2.28	5	5	0.263	-0.63
10	2.30	6	6	0.316	-0.48
10	2.30	7	7	0.368	-0.34
10	2.30	8	8	0.421	-0.20
10	2.30	9	9	0.474	-0.07
10.1	2.31	10	10	0.526	0.07
10.3	2.33	11	11	0.579	0.20
10.4	2.34	12	12	0.632	0.34
11.3	2.42	13	13	0.684	0.48
11.4	2.43	14	14	0.737	0.63
11.9	2.48	15	15	0.789	0.80
12	2.48	16	16	0.842	1.00
12.5	2.53	17	17	0.895	1.25
12.6	2.53	18	18	0.947	1.62

Plot analysis indicates that the data more closely follow a log normal distribution.

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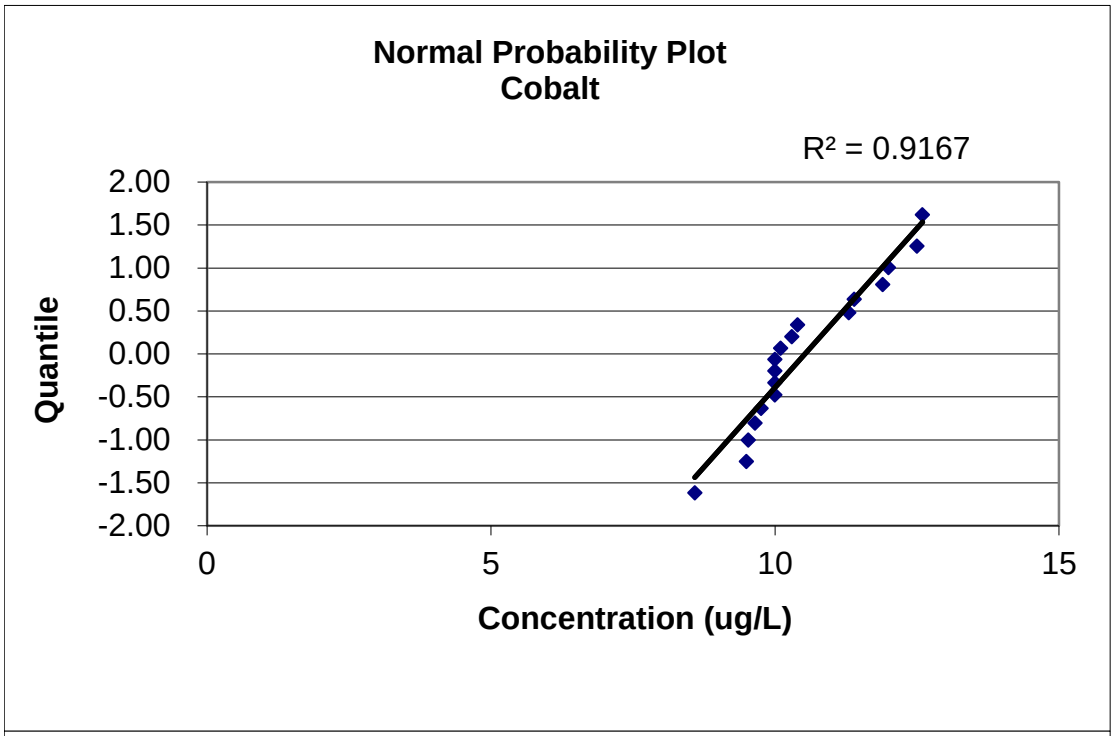
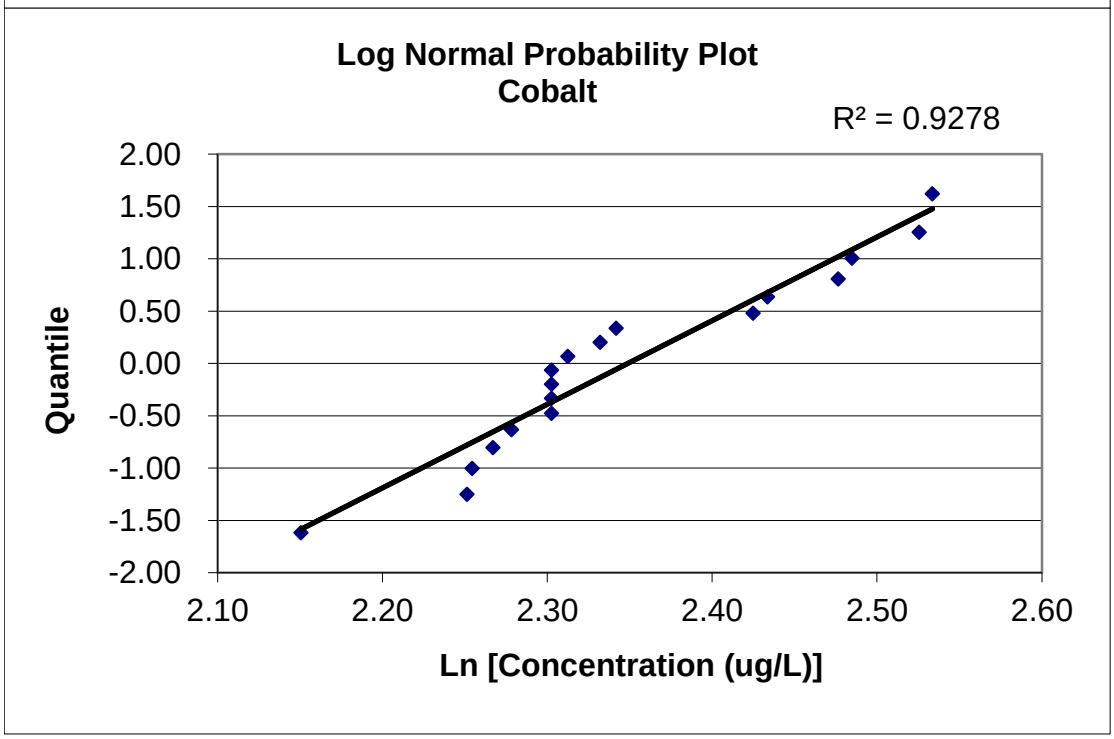
Probability Plots to determine the distribution of **Cobalt**





JOYCE Project **East Carolina Regional Landfill**
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Task No: **02**
Date: **28-Jan-13**

Determination of reported background value as an outlier

Analyte: **Cobalt**

Background Data

Sample No.	Sample Date	Location	ln(Concentration) (ug/L)	
1	28-Oct-98	GW-2	ND	
2	07-Apr-99	GW-2	ND	
3	08-Dec-99	GW-2	10.00	
4	27-Apr-00	GW-2	ND	
5	18-Oct-00	GW-2	ND	
6	19-Apr-01	GW-2	ND	
7	24-Dec-01	GW-2	ND	
8	23-Apr-02	GW-2	ND	
9	23-Oct-02	GW-2	ND	
10	01-Apr-03	GW-2	10.00	
11	28-Oct-03	GW-2	ND	
12	27-Apr-04	GW-2	ND	
13	26-Oct-04	GW-2	ND	
14	15-Mar-05	GW-2	10.00	
15	12-Jul-05	GW-2	ND	
16	19-Jan-06	GW-2	11.90	
17	11-Jul-06	GW-2	12.50	
18	17-Jan-07	GW-2	10.30	
19	09-Jul-07	GW-2	10.00	
20	14-Jan-08	GW-2	11.30	
21	14-Jul-08	GW-2	10.10	
22	19-Jan-09	GW-2	12.00	
23	20-Jul-09	GW-2	11.40	
24	25-Jan-10	GW-2	12.60	
25	06-Jul-10	GW-2	8.59	J
26	04-Jan-11	GW-2	9.65	J
27	05-Jul-11	GW-2	10.40	
28	09-Jan-12	GW-2	9.51	J
29	09-Jul-12	GW-2	9.76	J
30	28-Jan-13	GW-2	9.53	J
		Mean =	10.530	
		STD =	1.140	

Note: All concentrations are in ug/L.

Using the data listed above, form the statisitc Tn:

Tn = (Xn - mean) / STD

where: Xn = largest observed sample value
mean = mean of the background values
STD = standard deviation of the background values

For Xn = 12.600
mean = 10.530
STD = 1.140

Tn = 1.815

From Table 8 included in the Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities - Interim Final Guidance, the critical value for the given sample group is

Number of samples = 18
Tc = 2.504

Since Tc>Tn, the sample result is not considered to be an outlier

JEI Project: **East Carolina Regional Landfill**
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Shapiro Wilk Test Statistic (W) for log normality of **Cobalt**

Complete the following table where

i = ordered value of sample, arranged from smallest to largest
X(i) = sample values arranged from smallest to largest
X(n-i+1) = sample values arranged from largest to smallest
A(n-i+1) = coefficient from table A-1, Statistical Analysis of Ground-Water Data at RCRA Facilities
B(i) = summation of (X(n-i+1)-X(i))A(n-i+1)

i	X(i)	X(n-i+1)	X(n-i+1) - X(i)	A(n-i+1)	B(i)
1	2.151	2.534	0.383	0.4886	0.187
2	2.251	2.526	0.274	0.3253	0.089
3	2.254	2.485	0.230	0.2553	0.059
4	2.267	2.477	0.210	0.2027	0.042
5	2.278	2.434	0.155	0.1587	0.025
6	2.303	2.425	0.122	0.1197	0.015
7	2.303	2.342	0.039	0.0837	0.003
8	2.303	2.332	0.030	0.0496	0.001
9	2.303	2.313	0.010	0.0163	0.000
10	2.313	2.303	-0.010		
11	2.332	2.303	-0.030		
12	2.342	2.303	-0.039		
13	2.425	2.303	-0.122		
14	2.434	2.278	-0.155		
15	2.477	2.267	-0.210		
16	2.485	2.254	-0.230		
17	2.526	2.251	-0.274		
18	2.534	2.151	-0.383		

The test statistic W can be found using:

W = SQR((B/SD x SQRT(n-1))

where:

B =	summation of (X(n-i+1)-X(i))A(n-i+1)	=	0.422
SD =	standard deviation of the data group	=	0.107
n =	number of samples	=	18
		W =	0.923

Compare this value to the critical value in Table A-2 of Statistical Analysisof Ground-Water Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance (Draft) July, 1992, to determine if the data is normally distributed.

From Table A-2 with (n) samples and a 95% confidence level, the critical value is

W(crit) = 0.897
and the calculated W = 0.923

Therefore the data set is Log-Normal

JEI Project: **East Carolina Regional Landfill**
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Shapiro Wilk Test Statistic (W) for normality of total **Cobalt**

Complete the following table where

i = ordered value of sample, arranged from smallest to largest
X(i) = sample values arranged from smallest to largest
X(n-i+1) = sample values arranged from largest to smallest
A(n-i+1) = coefficient from table A-1, Statistical Analysis of Ground-Water Data at RCRA Facilities
B(i) = summation of (X(n-i+1)-X(i))A(n-i+1)

i	X(i)	X(n-i+1)	X(n-i+1) - X(i)	A(n-i+1)	B(i)
1	8.59	12.6	4.01	0.4886	1.9593
2	9.50	12.5	3.00	0.3253	0.9759
3	9.53	12.0	2.47	0.2553	0.6306
4	9.65	11.9	2.25	0.2027	0.4561
5	9.76	11.4	1.64	0.1587	0.2603
6	10.00	11.3	1.30	0.1197	0.1556
7	10.00	10.4	0.40	0.0837	0.0335
8	10.00	10.3	0.30	0.0496	0.0149
9	10.00	10.1	0.10	0.0163	0.0016
10	10.10	10.0	-0.10		
11	10.30	10.0	-0.30		
12	10.40	10.0	-0.40		
13	11.30	10.0	-1.30		
14	11.40	9.8	-1.64		
15	11.90	9.7	-2.25		
16	12.00	9.5	-2.47		
17	12.50	9.5	-3.00		
18	12.60	8.6	-4.01		

The test statistic W can be found using:

W = SQR[B/(SD x SQRT(n-1))]

where:

B =	summation of (X(n-i+1)-X(i))A(n-i+1)	=	4.49
SD =	standard deviation of the data group	=	1.14
n =	number of samples	=	18

W = 0.910

Compare this value to the critical value in Table A-2 of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance (Draft) July, 1992, to determine if the data is normally distributed.

From Table A-2 with (n) samples and a 95% confidence level, the critical value is

W(crit) = 0.897
and the calculated W = 0.910

Therefore the data set is Normal

JOYCE Projec East Carolina Regional Landfill
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Aitchison's Adjustment for Cobalt

Background Values (positive detects only)

Sample No.	Sample Date	Location	Concentration (ug/l)	ln(conc)
1	28-Oct-98	GW-2	ND	
2	7-Apr-99	GW-2	ND	
3	8-Dec-99	GW-2	10.00	2.303
4	27-Apr-00	GW-2	ND	
5	18-Oct-00	GW-2	ND	
6	19-Apr-01	GW-2	ND	
7	24-Dec-01	GW-2	ND	
8	23-Apr-02	GW-2	ND	
9	23-Oct-02	GW-2	ND	
10	1-Apr-03	GW-2	10.00	2.303
11	28-Oct-03	GW-2	ND	
12	27-Apr-04	GW-2	ND	
13	26-Oct-04	GW-2	ND	
14	15-Mar-05	GW-2	10.00	2.303
15	12-Jul-05	GW-2	ND	
16	19-Jan-06	GW-2	11.90	2.477
17	11-Jul-06	GW-2	12.50	2.526
18	17-Jan-07	GW-2	10.30	2.332
19	9-Jul-07	GW-2	10.00	2.303
20	14-Jan-08	GW-2	11.30	2.425
21	14-Jul-08	GW-2	10.10	2.313
22	19-Jan-09	GW-2	12.00	2.485
23	20-Jul-09	GW-2	11.40	2.434
24	25-Jan-10	GW-2	12.60	2.534
25	6-Jul-10	GW-2	8.59	2.151
26	4-Jan-11	GW-2	9.65	2.267
27	5-Jul-11	GW-2	10.40	2.342
28	9-Jan-12	GW-2	9.51	2.252
29	9-Jul-12	GW-2	9.76	2.278
30	28-Jan-13	GW-2	9.53	2.254

Mean of detected values = 2.35
Standard Deviation of detected values = 0.11

The adjusted mean can be found using

M(a) = (1-d/n) x M

where:	d =	number non- detected values	=	12
	n =	total number samples	=	30
	M =	mean detected values	=	2.35
		M(a)	**=**	**1.41**

The adjusted standard deviation squared may be found using

STD(a) = [(n-(d+1))/(n-1)] S + d/n((n-d)/(n-1))MM

where:	n =	total number samples	=	30
	d =	number non-detected values	=	12
	S =	std deviation of detected values squared	=	0.01
	MM =	mean of detected values squared	=	5.52
		STD(a)	=	1.38

and the adjusted standard deviation is then

S(a) = SQRT(STD(a)) = 1.17

Joyce Project: East Carolina Regional Landfill
Project No: 894.1301.12
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Parametric Tolerance Interval for Aitchison's adjusted data

Analyte: Cobalt

Background Data

Sample No.	Sample Date	Location	Concentration (ug/l)	Quantitation Limit (ug/l)	ln(Concentration) (ug/l)
1	28-Oct-98	GW-2	ND	10	
2	7-Apr-99	GW-2	ND	10	
3	8-Dec-99	GW-2	10	10	2.303
4	27-Apr-00	GW-2	ND	10	
5	18-Oct-00	GW-2	ND	10	
6	19-Apr-01	GW-2	ND	10	
7	24-Dec-01	GW-2	ND	10	
8	23-Apr-02	GW-2	ND	10	
9	23-Oct-02	GW-2	ND	10	
10	1-Apr-03	GW-2	10	10	2.303
11	28-Oct-03	GW-2	ND	10	
12	27-Apr-04	GW-2	ND	10	
13	26-Oct-04	GW-2	ND	10	
14	15-Mar-05	GW-2	10	10	2.303
15	12-Jul-05	GW-2	ND	10	
16	19-Jan-06	GW-2	11.9	10	2.477
17	11-Jul-06	GW-2	12.5	10	2.526
18	17-Jan-07	GW-2	10.3	10	2.332
19	9-Jul-07	GW-2	10	10	2.303
20	14-Jan-08	GW-2	11.3	10	2.425
21	14-Jul-08	GW-2	10.1	10	2.313
22	19-Jan-09	GW-2	12	10	2.485
23	20-Jul-09	GW-2	11.4	10	2.434
24	25-Jan-10	GW-2	12.6	10	2.534
25	6-Jul-10	GW-2	8.59	10	2.151
26	4-Jan-11	GW-2	9.65	10	2.267
27	5-Jul-11	GW-2	10.4	10	2.342
28	9-Jan-12	GW-2	9.51	10	2.252
29	9-Jul-12	GW-2	9.76	10	2.278
30	28-Jan-13	GW-2	9.53	10	2.254

Note: All sample concentrations are micrograms per liter

The background mean and standard deviation were modified using Aitchison's Adjustment.
The adjusted mean and standard deviation are as follows:

The ln(adjusted mean) and ln(standard deviation) are

ln(adjusted mean) = 1.41
ln(adjusted standard deviation) = 1.17

Using the background data, the upper Tolerance Limit can be determined using

Upper Tolerance Limit = (Mean Concentration) + K x (Standard Deviation Samples)

where: K = factor for constructing one sided normal tolerance limit taken from table 4-2, page 87, Statistical Methods for Groundwater Monitoring, Gibbons, 1994
n = number of background samples

For: K = 2.22
n = 30

UTL = 55.36

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Analyte: **Cobalt**

Sample No.	Sample Date	Location	Concentration (ug/L)	Sorted Concentration (ug/L)	
1	28-Oct-98	GW-7	30.0	20	50
2	07-Apr-99	GW-7	20.0	20	50
3	08-Dec-99	GW-7	20.0	21.5	40
4	27-Apr-00	GW-7	30.0	23.7	40
5	18-Oct-00	GW-7	30.0	26.6	40
6	19-Apr-01	GW-7	30.0	29.8	39.0
7	24-Dec-01	GW-7	30.0	30	37.5
8	23-Apr-02	GW-7	30.0	30	37.3
9	23-Oct-02	GW-7	50.0	30	36
10	01-Apr-03	GW-7	40.0	30	35.4
11	28-Oct-03	GW-7	50.0	30	35.1
12	27-Apr-04	GW-7	30.0	30	34.9
13	26-Oct-04	GW-7	40.0	30	31.6
14	15-Mar-05	GW-7	36.0	30.0	30
15	12-Jul-05	GW-7	40.0	31.6	30
16	19-Jan-06	GW-7	30.0	34.9	30
17	11-Jul-06	GW-7	31.6	35.1	30
18	17-Jan-07	GW-7	34.9	35.4	30
19	09-Jul-07	GW-7	37.5	36	30
20	14-Jan-08	GW-7	35.1	37.3	30
21	14-Jul-08	GW-7	37.3	37.5	30.0
22	19-Jan-09	GW-7	23.7	39	29.8
23	20-Jul-09	GW-7	35.4	40	26.6
24	25-Jan-10	GW-7	21.5	40	23.7
25	06-Jul-10	GW-7	26.6	40	21.5
26	04-Jan-11	GW-7	29.8	50	20
27	05-Jul-11	GW-7	39.0	50	20

Number of Data: 26
Number of Truncated Data: 0
Percentage of Truncated Data: 0%

Upper Tolerance Limit: 48.3 µg/L

All concentrations in micrograms per liter (µg/L).
B = Blank qualified data not used in statistical calculations.
J = Estimated concentration below quantification limit.

JEI Project: **East Carolina Regional Landfill**
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Probability Plots to determine the distribution of **Cobalt**

Complete the following table where

i = ordered value of sample, arranged from smallest to largest
X(i) = sample values arranged from smallest to largest
LN[X(i)] = Natural Log Value of sample concentrations arranged from smallest to largest
[i/(n+1)] = Cumulative probability
n = number of samples = 27

X(i)	LN[X(i)]	i	Rank	[Rank/(n+1)]	Quantiles
20.0	3.00	1	1	0.036	-1.80
20.0	3.00	2	2	0.071	-1.47
21.5	3.07	3	3	0.107	-1.24
23.7	3.17	4	4	0.143	-1.07
26.6	3.28	5	5	0.179	-0.92
29.8	3.39	6	6	0.214	-0.79
30.0	3.40	7	7	0.250	-0.67
30.0	3.40	8	8	0.286	-0.57
30.0	3.40	9	9	0.321	-0.46
30.0	3.40	10	10	0.357	-0.37
30.0	3.40	11	11	0.393	-0.27
30.0	3.40	12	12	0.429	-0.18
30.0	3.40	13	13	0.464	-0.09
30.0	3.40	14	14	0.500	0.00
31.6	3.45	15	15	0.536	0.09
34.9	3.55	16	16	0.571	0.18
35.1	3.56	17	17	0.607	0.27
35.4	3.57	18	18	0.643	0.37
36.0	3.58	19	19	0.679	0.46
37.3	3.62	20	20	0.714	0.57
37.5	3.62	21	21	0.750	0.67
39.0	3.66	22	22	0.786	0.79
40.0	3.69	23	23	0.821	0.92
40.0	3.69	24	24	0.857	1.07
40.0	3.69	25	25	0.893	1.24
50.0	3.91	26	26	0.929	1.47
50.0	3.91	27	27	0.964	1.80

Plot analysis indicates that the data more closely follow a log normal distribution.

JEI Project: **East Carolina Regional Landfill**
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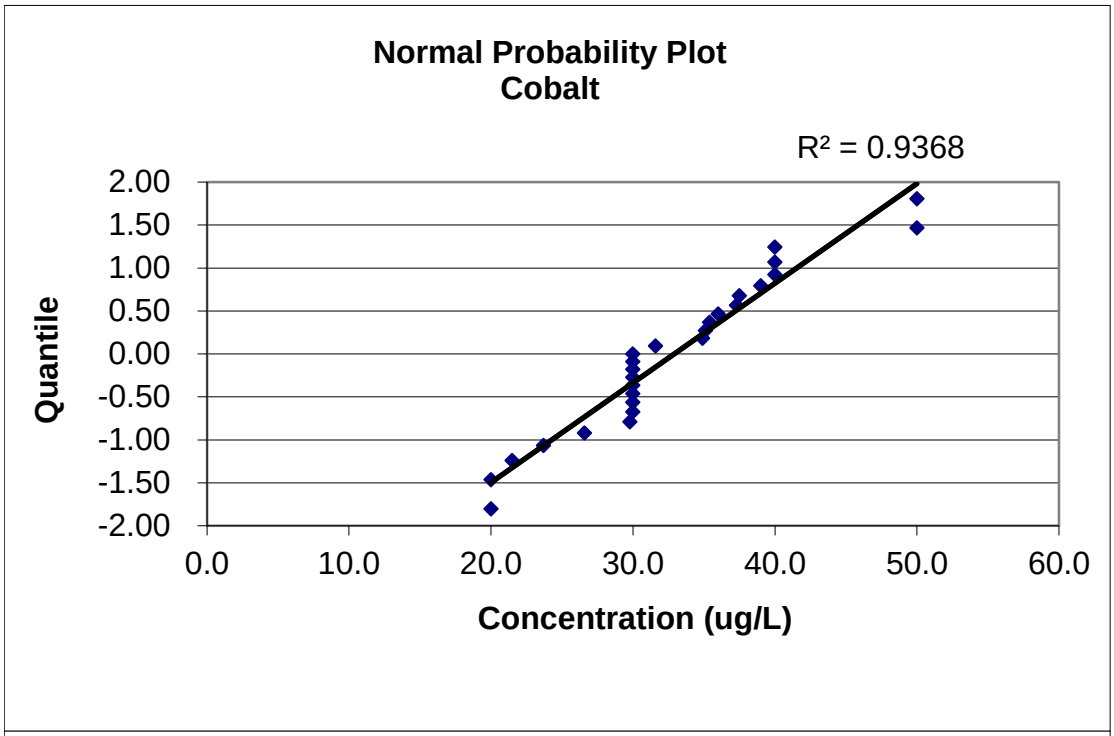
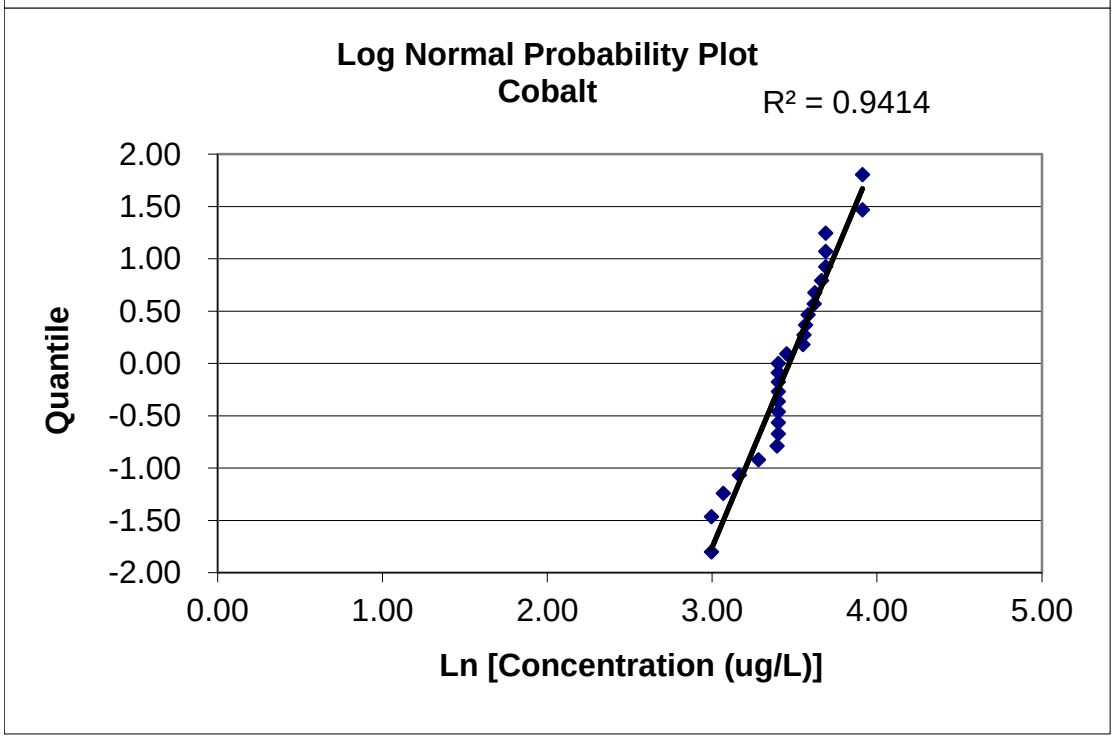
Probability Plots to determine the distribution of **Cobalt**





JEI Project: **East Carolina Regional Landfill**
Project No: **894.1301.12**
Task No: **02**
Date: **28-Jan-13**

Determination of reported background value as an outlier

Analyte: **Cobalt**

Background Data

Sample No.	Sample Date	Location	ln(Concentration) (ug/L)
1	28-Oct-98	GW-7	30.0
2	07-Apr-99	GW-7	20.0
3	08-Dec-99	GW-7	20.0
4	27-Apr-00	GW-7	30.0
5	18-Oct-00	GW-7	30.0
6	19-Apr-01	GW-7	30.0
7	24-Dec-01	GW-7	30.0
8	23-Apr-02	GW-7	30.0
9	23-Oct-02	GW-7	50.0
10	01-Apr-03	GW-7	40.0
11	28-Oct-03	GW-7	50.0
12	27-Apr-04	GW-7	30.0
13	26-Oct-04	GW-7	40.0
14	15-Mar-05	GW-7	36.0
15	12-Jul-05	GW-7	40.0
16	19-Jan-06	GW-7	30.0
17	11-Jul-06	GW-7	31.6
18	17-Jan-07	GW-7	34.9
19	09-Jul-07	GW-7	37.5
20	14-Jan-08	GW-7	35.1
21	14-Jul-08	GW-7	37.3
22	19-Jan-09	GW-7	23.7
23	20-Jul-09	GW-7	35.4
24	25-Jan-10	GW-7	21.5
25	06-Jul-10	GW-7	26.6
26	04-Jan-11	GW-7	29.8
27	05-Jul-11	GW-7	39.0
		Mean =	32.9
		STD =	7.6

Note: All concentrations are in ug/L.

Using the data listed above, form the statisitc Tn:

Tn = (Xn - mean) / STD

where: Xn = largest observed sample value
mean = mean of the background values
STD = standard deviation of the background values

For Xn = 50.0
mean = 32.9
STD = 7.6

Tn = 2.248

From Table 8 included in the Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities - Interim Final Guidance, the critical value for the given sample group is

Number of samples = 27
Tc = 2.698

Since Tc>Tn, the sample result is not considered to be an outlier

JEI Project: **East Carolina Regional Landfill**
Project No: **894.1301.12**
Task No: **02**
Date: **28-Jan-13**

Shapiro Wilk Test Statistic (W) for normality of total **Cobalt**

Complete the following table where

i = ordered value of sample, arranged from smallest to largest
X(i) = sample values arranged from smallest to largest
X(n-i+1) = sample values arranged from largest to smallest
A(n-i+1) = coefficient from table A-1, Statistical Analysis of Ground-Water Data at RCRA Facilities
B(i) = summation of (X(n-i+1)-X(i))A(n-i+1)

i	X(i)	X(n-i+1)	X(n-i+1) - X(i)	A(n-i+1)	B(i)
1	20.0	50.0	30.00	0.4366	13.0980
2	20.0	50.0	30.00	0.3018	9.0540
3	21.5	40.0	18.50	0.2522	4.6657
4	23.7	40.0	16.30	0.2152	3.5078
5	26.6	40.0	13.40	0.1848	2.4763
6	29.8	39.0	9.20	0.1584	1.4573
7	30.0	37.5	7.50	0.1346	1.0095
8	30.0	37.3	7.30	0.1128	0.8234
9	30.0	36.0	6.00	0.0923	0.5538
10	30.0	35.4	5.40	0.0728	0.3931
11	30.0	35.1	5.10	0.0540	0.2754
12	30.0	34.9	4.90	0.0358	0.1754
13	30.0	31.6	1.60	0.0178	0.0285
14	30.0	30.0	0.00	0.0000	0.0000
15	31.6	30.0			
16	34.9	30.0			
17	35.1	30.0			
18	35.4	30.0			
19	36.0	30.0			
20	37.3	30.0			
21	37.5	30.0			
22	39.0	29.8			
23	40.0	26.6			
24	40.0	23.7			
25	40.0	21.5			
26	50.0	20.0			
27	50.0	20.0			

The test statistic W can be found using:

W = SQR[B/(SD x SQRT(n-1))]

where:

B =	summation of (X(n-i+1)-X(i))A(n-i+1)	=	37.52
SD =	standard deviation of the data group	=	7.61
n =	number of samples	=	27

W = 0.936

Compare this value to the critical value in Table A-2 of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance (Draft) July, 1992, to determine if the data is normally distributed.

From Table A-2 with (n) samples and a 95% confidence level, the critical value is

W(crit) = 0.923
and the calculated W = 0.936

Therefore the data set is Normal

JEI Project: **East Carolina Regional Landfill**
Project No: **894.1301.12**
Task No: **02**
Date: **28-Jan-13**

Shapiro Wilk Test Statistic (W) for log normality of **Cobalt**

Complete the following table where

i = ordered value of sample, arranged from smallest to largest
X(i) = sample values arranged from smallest to largest
X(n-i+1) = sample values arranged from largest to smallest
A(n-i+1) = coefficient from table A-1, Statistical Analysis of Ground-Water Data at RCRA Facilities
B(i) = summation of (X(n-i+1)-X(i))A(n-i+1)

i	X(i)	X(n-i+1)	X(n-i+1) - X(i)	A(n-i+1)	B(i)
1	2.996	3.912	0.916	0.4366	0.400
2	2.996	3.912	0.916	0.3018	0.277
3	3.068	3.689	0.621	0.2522	0.157
4	3.165	3.689	0.523	0.2152	0.113
5	3.281	3.689	0.408	0.1848	0.075
6	3.395	3.664	0.269	0.1584	0.043
7	3.401	3.624	0.223	0.1346	0.030
8	3.401	3.619	0.218	0.1128	0.025
9	3.401	3.584	0.182	0.0923	0.017
10	3.401	3.567	0.166	0.0728	0.012
11	3.401	3.558	0.157	0.0540	0.008
12	3.401	3.552	0.151	0.0358	0.005
13	3.401	3.453	0.052	0.0178	0.001
14	3.401	3.401	0.000	0.0000	0.000
15	3.453	3.401			
16	3.552	3.401			
17	3.558	3.401			
18	3.567	3.401			
19	3.584	3.401			
20	3.619	3.401			
21	3.624	3.401			
22	3.664	3.395			
23	3.689	3.281			
24	3.689	3.165			
25	3.689	3.068			
26	3.912	2.996			
27	3.912	2.996			

The test statistic W can be found using:

W = SQR((B/SD x SQRT(n-1))

where:

B =	summation of (X(n-i+1)-X(i))A(n-i+1)	=	1.162
SD =	standard deviation of the data group	=	0.235
n =	number of samples	=	27

W = 0.939

Compare this value to the critical value in Table A-2 of Statistical Analysisof Ground-Water Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance (Draft) July, 1992, to determine if the data is normally distributed.

From Table A-2 with (n) samples and a 95% confidence level, the critical value is

W(crit) = 0.923
and the calculated W = 0.939

Therefore the data set is Log-Normal

Joyce Project: **East Carolina Regional Landfill**
Project No: **894.1301.12**
Task No: **02**
Date: **28-Jan-13**

Parametric Prediction Interval for log normally distributed data

Analyte: **Cobalt**

Background Data: Note use of log(concentration)

Sample No.	Sample Date	Location	Concentration (ug/L)	Natural Log Concentration
1	28-Oct-98	GW-7	30	3.401
2	7-Apr-99	GW-7	20	2.996
3	8-Dec-99	GW-7	20	2.996
4	27-Apr-00	GW-7	30	3.401
5	18-Oct-00	GW-7	30	3.401
6	19-Apr-01	GW-7	30	3.401
7	24-Dec-01	GW-7	30	3.401
8	23-Apr-02	GW-7	30	3.401
9	23-Oct-02	GW-7	50	3.912
10	1-Apr-03	GW-7	40	3.689
11	28-Oct-03	GW-7	50	3.912
12	27-Apr-04	GW-7	30	3.401
13	26-Oct-04	GW-7	40	3.689
14	15-Mar-05	GW-7	36	3.584
15	12-Jul-05	GW-7	40	3.689
16	19-Jan-06	GW-7	30	3.401
17	11-Jul-06	GW-7	31.6	3.453
18	17-Jan-07	GW-7	34.9	3.552
19	9-Jul-07	GW-7	37.5	3.624
20	14-Jan-08	GW-7	35.1	3.558
21	14-Jul-08	GW-7	37.3	3.619
22	19-Jan-09	GW-7	23.7	3.165
23	20-Jul-09	GW-7	35.4	3.567
24	25-Jan-10	GW-7	21.5	3.068
25	6-Jul-10	GW-7	26.6	3.281
26	4-Jan-11	GW-7	29.8	3.395
27	5-Jul-11	GW-7	39	3.664

Note: All concentrations are in ug/L.

Using the background data, the upper Prediction Limit can be determined using:

Upper Prediction Limit = antilog((Mean Conc) + t(n-1,k,.95) x (Std Dev) x SQRT(1/m+1/n))

where:
Mean Conc = mean concentration background samples
t(n-1k,.95) = Bonferroni t-statistic with
n-1 = degrees of freedom (number of samples - 1)
k = number of downgradient samples per event
.95 = confidence interval
Std Dev = standard deviation of background samples
m = number independent samples from each sampling point
n = number of background samples

For:
Mean Conc = 3.467
Std Dev = 0.235
t(n-1,k,.95)*sqrt(1/m+1/n) = 1.740
k = 1
m = 1
n = 27

Antilog UPL = 48.27 su