WATER QUALITY MONITORING REPORT

SECOND SEMI-ANNUAL 2013 SAMPLING EVENT

Closed Henderson County Landfill, Permit No. 45-01

Henderson County, North Carolina

Submitted To:

HENDERSON COUNTY RECYCLES

Henderson County Solid Waste Division
191 Transfer Station Drive
Hendersonville, NC 28791

Submitted By: Golder Associates NC, Inc.
5B Oak Branch Drive
Greensboro, NC 27407

December 2013 **0839-650613.100**

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NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Golder Associates NC, Inc. on behalf of Henderson County

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

Name: David Y. Reedy II Phone: 336-852-4903

E-mail: dreedy@golder.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Henderson County Closed Landfill	802 Stoney Mountain Road Hendersonville, NC 28791	45-01	.1600/.0500	September 18-19, 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.

David Y. Reedy II, P.G. Senior Project Hydrogeologist 336-852-4903

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

Signature 12-17-13 Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1963 GEOLOGIST DAVID YATES REEDY, II 12-17-13

Golder Associates NC, Inc., 5B Oak Branch Drive, Greensboro, NC 27407

Facility Representative Address

C-2862

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

Revised 6/2009

December 17, 2013 0839-650613.100

Ms. Jackie Drummond
Department of Environment and Natural Resources
Division of Waste Management
Solid Waste Section
1646 Mail Service Center
Raleigh, North Carolina 27699
919-707-8294

RE: WATER QUALITY MONITORING REPORT, SECOND SEMI-ANNUAL 2013 SAMPLING EVENT
CLOSED HENDERSON COUNTY LANDFILL, PERMIT NO. 45-01
HENDERSON COUNTY, NORTH CAROLINA

Dear Jackie:

On behalf of Henderson County, Golder Associates NC, Inc. (Golder) is submitting the enclosed *Water Quality Monitoring Report,* which documents the results of the September 18-19, 2013, compliance monitoring event at the closed municipal solid waste (MSW) landfill and closed construction and demolition (C&D) landfill at the above-referenced facility. Surface water monitoring point TSW-1 had no discernable flow during the event and therefore a sample was not collected.

During the September 2013 event, three NC Appendix I inorganic constituents (barium, cobalt, and lead) were reported at concentrations that exceed their respective Solid Waste Section Limits (SWSLs) and their respective North Carolina Groundwater Quality Standards (NC 2L Standards) or Solid Waste Section Groundwater Protection Standards (GPSs) in samples from one or more downgradient monitoring wells at the closed MSW facility. The concentrations of barium, cobalt, and lead were statistically evaluated in accordance with the procedures outlined in 15A NCAC 13B.1632(g) and (h) and were determined to be below background concentrations and no further action is warranted. Cobalt and vanadium were detected in samples from one or more downgradient wells at the closed MSW facility at estimated concentrations below their SWSLs, but above their respective GPS.

At the closed MSW facility, three NC Appendix I volatile organic compounds (VOCs) (benzene; 1,4-dichlorobenzene; and tetrachloroethene) were reported at concentrations above their respective SWSLs and NC 2L Standards in samples from downgradient monitoring wells during the September 2013 event. Vinyl chloride was also reported at estimated concentrations below the SWSL, but above the NC 2L Standard in samples from one or more downgradient wells. The detected VOC constituents and concentrations are generally consistent with reported historical concentrations for the closed MSW landfill.

At the closed C&D facility, five NC Appendix I inorganic constituents (beryllium, chromium, cobalt, lead, vanadium) were reported at concentrations that exceeded their respective water quality standards in the sample collected from the background well MW-10. Cobalt and vanadium were reported in samples from one or more downgradient wells at estimated concentrations below their respective SWSLs, but above the GPS, as they have been during previous events. The concentrations of indicator parameters iron and manganese in samples from each of the C&D monitoring wells exceeded their respective SWSLs and NC 2L Standards. Based on the concentrations in recent samples from background well MW-10, the concentrations of iron and manganese appear to be naturally occurring.

At the C&D facility, one NC Appendix I VOC (vinyl chloride) was detected at estimated concentrations below the SWSL, but above the NC 2L Standard in samples from one or more downgradient wells during

the September 2013 event, as they have been during previous events. No other NC Appendix I VOCs were reported at concentrations that exceeded their respective NC 2L Standards.

No NC Appendix I constituents were detected at concentrations that exceeded applicable standards in surface water monitoring points during the September 2013 sampling event. One NC Appendix I VOC (1,4-dichlorobenzene) was reported at a concentration above the SWSL, but below the surface water standard in the sample collected from BR-2, as it has been during previous events.

Based on these results, the uppermost aquifer beneath the MSW landfill should continue to be monitored in accordance with the requirements of the Assessment Monitoring Program as outlined in Title 15A of North Carolina Administrative Code (NCAC) Subchapter 13B Rule.1634. As required by 15A NCAC 13B.1635, an Assessment of Corrective Measures (ACM) for the MSW landfill and was submitted to NCDENR on April 15, 2013. The ACM was approved by NCDENR on May 22, 2013, and the County held a public meeting to discuss the ACM and potential remedies for the site on August 15, 2013. The County is proceeding with activities related to the Corrective Action Plan.

Also based on the results, the County will continue monitoring the C&D landfill in accordance with the requirements of the Assessment Monitoring Program as outlined in Title 15A NCAC 13B.0545. The next compliance monitoring event for this facility is tentatively scheduled for March 2014. If you have any questions, please contact the undersigned at 336-852-4903.

Sincerely,
GOLDER ASSOCIATES NC, INC.

David "Dusty" Y. Reedy II, P.G.
Senior Project Hydrogeologist

Rachel P. Kirkman, P.G.
Associate and Senior Geologist

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Table of Contents

COVER LETTER
1.0 INTRODUCTION 1
1.1 Site Description and Background 1
1.2 Compliance Monitoring History 2
1.3 Hydrogeologic Setting 3
2.0 FIELD PROGRAM, MONITORING RESULTS, AND DISCUSSION 4
2.1 Visual Inspection Program 4
2.2 Well Network and Groundwater Elevation Measurements 5
2.3 September 2013 Groundwater and Surface Water Monitoring Event 5
2.4 Laboratory Analysis Program 6
2.5 September 2013 Sampling Results for the Closed MSW Landfill 7
2.6 September 2013 Sampling Results for the Closed C&D Landfill 7
3.0 LABORATORY AND FIELD QA/QC 8
4.0 DATA EVALUATION 8
4.1 North Carolina Groundwater and Surface Water Quality Standard Comparisons for the Closed MSW Landfill 8
4.2 North Carolina Groundwater Standard Comparisons for the Closed C&D Landfill 9
4.3 Statistical Evaluations 9
5.0 CONCLUSIONS 10
6.0 REFERENCES 10

List of Tables

Table 1 Summary of Historical Static Water Level Data
Table 2 Summary of Estimated Horizontal Flow Velocities
Table 3 Summary of Detected Constituents in MSW Monitoring Wells
Table 4 Summary of Detected Constituents in C&D Monitoring Wells
Table 5 Summary of Detected Constituents in Surface Water Monitoring Points

List of Drawings

Drawing 1 Groundwater Surface Contour Map, September 18, 2013

List of Appendices

Appendix A Groundwater and Surface Water Sampling Logs
Appendix B September 2013 Groundwater and Surface Water Certificate-of-Analysis, Chain-of-Custody Forms and Laboratory Data Review
Appendix C Statistical Evaluation Worksheets & Summary Table

1.0 INTRODUCTION

This report summarizes the monitoring results from the September 18-19, 2013, groundwater and surface water sampling and analysis event at the closed Henderson County Landfill in Henderson County, North Carolina in accordance with Title 15A of the North Carolina Administrative Code (NCAC) Subchapter 13B.1632 and NCAC Subchapter 13B.0544. The Henderson County Landfill, which consists of a closed municipal solid waste (MSW) and a closed construction and demolition (C&D) landfill, is maintained by the County under Permit No. 45-01 issued by the North Carolina Department of Environment and Natural Resources (NCDENR).

1.1 Site Description and Background

The location of the facility is shown on the inlay on Drawing 1. As presented, the closed Henderson County Landfill is located approximately 3 miles northwest of the city of Hendersonville, off Stoney Mountain Road. The County maintains an approximately 120-acre landfill facility that consists of a closed, unlined C&D over MSW facility; a closed, unlined C&D facility; a closed, unlined facility formerly operated by the Tennessee Valley Authority (TVA); and an active transfer station. A white goods area, a yard waste disposal area, and a beneficial reuse area are also present on the property.

Unpermitted waste was discovered along the eastern portion of the southern property boundary in 2011, during the construction of a road to the new customer convenience center. The waste, which appears to consist of mainly C&D material, extends off-site to an adjacent parcel. NC DENR was informed of the discovery and the County is in the process of trying to purchase the affected properties.

The MSW facility is subject to Assessment Monitoring in accordance with .1634 of the Solid Waste Management Rules (SWMR) and the Transition Plan for the facility. The C&D facility is subject to water quality monitoring in accordance with the January 1, 2007, revision to the C&D Rules (.0544 of the SWMR) and is currently in Assessment Monitoring. Water quality monitoring is also required for the TVA landfill.

The facility has been in operation since the 1940s, beginning with the TVA landfill. In January 1998, the MSW facility ceased accepting MSW waste and began placing C&D waste over the MSW waste. After closure of the C&D-over-MSW area, a new C&D landfill began operation on the southeastern portion of the facility property. The C&D-over-MSW area was capped with a modified clay cap. The County ceased accepting waste at the stand-alone C&D landfill on June 30, 2008, and completed closure activities on June 30, 2009.

The landfill is bounded to the north and east by residential and undeveloped wooded properties, to the south by Stoney Mountain Road and residential and wooded properties, and to the west by a tributary of Mill Pond Creek, a North Carolina Department of Transportation maintenance yard, and a Henderson County School bus maintenance facility. Topographic relief at the landfill ranges from approximately 2170 to 2590 feet above mean sea level. Surface drainage from the facility is predominantly to the southwest

toward several streams along the western and southern portions of the property. These features drain into Mill Pond Creek located southwest of the landfill.

1.2 Compliance Monitoring History

Henderson County monitors water quality at the closed MSW landfill by sampling one upgradient background monitoring well (MW-5), and three downgradient monitoring wells (MW-6, MW-7, and MW-8) semi-annually. Two assessment monitoring wells (AMW-1S and AMW-1D) have also been monitored semi-annually since April 2002. Samples from the wells have historically been analyzed for the NC Appendix II list for the first semi-annual event and the NC Appendix I list plus mercury during the second semi-annual event.

Based on the documented volatile organic compound (VOC) exceedances of applicable groundwater standards, the County submitted an *Additional Groundwater Assessment Proposed Work Plan* to NCDENR on September 26, 2008. NCDENR approved the Work Plan on April 17, 2008, and the County submitted the *Assessment Report* on June 3, 2008. As part of the *Assessment Report*, assessment monitoring wells AMW-2S and AMW-2D were installed to further delineate the VOC plume. As part of this submittal, Camp Dresser & McKee (CDM) recommended that AMW-2S and AMW-2D continue to be sampled semi-annually. On September 17, 2009, representatives of the County and Golder met with NCDENR and submitted a Groundwater Assessment Work Plan to NCDENR to address continued assessment activities at the MSW and C&D facilities. During the meeting, it was verbally agreed that well MW-9 would no longer be sampled and would remain for water level collection, and wells AMW-1S, AMW-1D, AMW-2S, and AMW-2D would be sampled for NC Appendix I constituents plus mercury. A follow-up emails were received on September 18, 2009, regarding approval to discontinue monitoring MW-9, and on February 2, 2010, regarding approval of reduced analytical parameters for the four assessment monitoring wells. In a letter to the County dated May 12, 2011, NCDENR requested that MW-9 be sampled on an annual basis for NC Appendix I constituents to monitor the closed TVA landfill.

In July 2012, Henderson County submitted a Nature and Extent Study (NES) to the NCDENR with the purpose of delineating the vertical and horizontal extent of those constituents identified in the groundwater samples at concentrations that exceed their respective groundwater standards. The NCDENR granted approval of the NES on October 18, 2012. The October 18, 2012, approval letter of the NES requires the County to initiate an Assessment of Corrective Measures (ACM) per North Carolina Administrative Code (NCAC) 15A NCAC 13B.1635 of the NC Solid Waste Management Rules. An ACM was submitted to the NCDENR on April 15, 2013. The ACM was approved by NCDENR on May 22, 2013, and the County held a public hearing to discuss the ACM and potential remedies for the site on August 15, 2013.

Four surface water monitoring points, BR-1, BR-2, BR-3, and SW-1, have been monitored semi-annually for NC Appendix I parameters. In response to leachate seeps initially observed in September 2010, two temporary surface water monitoring points (TSW-1 and TSW-2) were added to the routine semi-annual

water quality monitoring events at the closed MSW facility. The temporary surface water points are to be sampled semi-annually for at least five years from the date of the first sampling event of March 2011.

The County monitors water quality at the C&D facility by sampling one upgradient monitoring well (MW-10), and three downgradient monitoring wells (MW-11, MW-12, and MW-13) semi-annually. Samples from the wells have been analyzed for the NC Appendix I list plus mercury and indicator parameters. On September 28, 2010, the County submitted an *Alternate Source Demonstration* (ASD) to NCDENR in response to VOC concentrations detected in samples from the closed C&D landfill downgradient monitoring wells. Based on the data and evaluations from the ASD, it was apparent that leachate from the C&D disposal unit is not the likely source of the VOC concentrations. Additionally, the data suggest that the source of the VOCs in samples from the monitoring wells is most likely landfill gas. On May 12, 2011, NCDENR issued a letter to the County to initiate an Assessment Monitoring Program at the C&D facility. The County submitted an Assessment Monitoring Work Plan to NCDENR on September 21, 2011, and sampled the C&D landfill monitoring wells for the NC Appendix II list of constituents during the September 2011. Prior to the September 2012 compliance monitoring event, NCDENR allowed the County to sample the C&D wells for the NC Appendix I list of constituents plus 2,4-D after conducting two NC Appendix II sampling events.

1.3 Hydrogeologic Setting

Geologically, the facility is located within the Chauga Belt of the Blue Ridge Physiographic Province of North Carolina (NCGS, 1985 and 2004). The Chauga Belt is comprised of Cambrian intrusive metamorphic rocks of monzonitic to granodioritic origin. The Chauga Belt is considered a low-grade metamorphic part of the Inner Piedmont Belt and is bordered to the west by the Brevard thrust fault zone. The facility is underlain primarily by the Henderson Gneiss which is a medium-gray, biotite granite augen composed of microcline, oligoclase, quartz, biotite, and minor amounts of muscovite, epidote, and titanite (Butler and Secor, 1991). The topography of the area is characterized by rolling, rounded hills with broad valleys and moderately steep ravines typically containing streams.

The uppermost groundwater beneath the facility is present in a shallow, unconfined aquifer comprised of partially weathered, fractured, metamorphic intrusive rock. Topographic relief at the site ranges from an elevation of approximately 2590 feet above mean sea level (AMSL) along the eastern property boundary and slopes downward to the southwest to an approximate elevation of 2170 feet AMSL along the western property boundary. As a result of the varying topographic relief at the site, groundwater occurs at depths of ranging from approximately 6 to 55 feet below grade. Depth-to-water measurements obtained during the September 2013 monitoring event are summarized in Table 1 and were used to prepare a groundwater surface contour map presented as an overlay on Drawing 1.

As presented, the groundwater flow in the uppermost aquifer beneath the site is generally toward the southwest toward a tributary of Mill Pond Creek, which is located along the western property boundary of

the site. The groundwater contour map and interpreted flow directions are generally consistent with previously submitted groundwater contour maps and flow directions.

Based on the September 2013 groundwater surface contour map, the average hydraulic gradient in the shallow aquifer underlying the MSW landfill was calculated to be approximately 0.086 feet/foot (Table 2). The hydraulic gradient underlying the C&D landfill was calculated to be approximately 0.263 feet/foot (Table 2). A hydraulic conductivity of 1.26E-04 centimeters/second is used based on an average of previous hydraulic conductivities calculated for specific wells (CDM, October 2008). An estimated effective porosity of 0.15 was used for the shallow aquifer to represent a range from saprolite to fractured rock (CDM, December 2008).

Using the above values, the estimated rate of groundwater flow for the uppermost aquifer beneath the facility was calculated using the following modified Darcy equation:

$$V_{gw} = Ki/n_e$$

where V_{gw} = average linear velocity (feet/year), K = hydraulic conductivity (feet/year), i = horizontal hydraulic gradient, and n_e = effective porosity.

The average estimated linear groundwater flow velocity under the MSW landfill is approximately 75 feet/year, which is generally consistent with previous estimates (Table 2). The average estimated linear groundwater flow velocity under the C&D landfill is approximately 229 feet/year (Table 2). The range of groundwater flow is expected to vary depending on the hydrogeologic unit in which it occurs. However, the linear velocity equation above makes the simplified assumptions of a homogeneous and isotropic aquifer. Therefore, this equation represents a likely average value for the uppermost aquifer and does not account for heterogeneous and/or anisotropic conditions that may be present in the uppermost aquifer at the facility.

2.0 FIELD PROGRAM, MONITORING RESULTS, AND DISCUSSION

Field activities conducted for the September 2013 sampling event are discussed in the following sections.

2.1 Visual Inspection Program

In order to ensure that a potential release is detected at the earliest possible time, the visual inspection program is used by sampling personnel at the closed Henderson County Landfill. This program includes physical indicators such as potential water table mounding beneath the waste management unit, physical examination of any stresses in biological communities, visible signs of leachate migration (i.e., leachate seeps), unexplained changes in soil characteristics, and any other change to the environment due to the waste management unit. During the September 2013 compliance monitoring event, no physical indicators of a potential release were observed in the vicinity of the waste management area.

2.2 Well Network and Groundwater Elevation Measurements

The network of groundwater monitoring wells at the closed Henderson County MSW landfill consists of one upgradient monitoring well (MW-5) and three downgradient monitoring wells (MW-6, MW-7, and MW-8). Four assessment monitoring wells (AMW-1S, AMW-1D, AMW-2S, and AMW-2D) are also monitored during each semi-annual monitoring event. Four surface water monitoring points, BR-1, BR-2, BR-3, and SW-1, are monitored semi-annually. At the request of the NCDENR, temporary surface water monitoring points TSW-1 and TSW-2 have been added to the monitoring network at the closed MSW landfill. Monitoring well and surface water point locations are shown on Drawing 1. Monitoring wells MW-6, MW-7, MW-8, AMW-1S, and AMW-2S are screened in the shallow, unconfined aquifer. Monitoring wells MW-5, AMW-1D, and AMW-2D are screened in fractured bedrock.

The network of groundwater monitoring wells at the closed C&D landfill consists of one upgradient monitoring well (MW-10), and three downgradient monitoring wells (MW-11, MW-12, and MW-13). The four wells are screened in the shallow, unconfined aquifer to target the preferential flow path for groundwater underlying the closed C&D waste disposal areas. Well MW-9 is sampled annually (first semi-annual event) to monitor groundwater downgradient of the closed TVA landfill. The landfill is screened in the shallow, unconfined aquifer.

Depth-to-water measurements were recorded to the nearest 0.01 foot prior to initiating groundwater purging and sampling activities. A summary of the current and available historical water level elevations are presented in Table 1.

As presented, the data indicate that the hydraulic head level in the uppermost aquifer beneath the facility is fairly consistent, with temporal variation from the long-term average ranging from approximately 2 to 12 feet (plus or minus). As expected, the range in fluctuation is greatest in the upgradient wells MW-5 and MW-10, as these wells are located in groundwater recharge areas. The range of fluctuation in downgradient compliance wells, which are located closer to groundwater discharge areas, is less, presumably due to the stabilizing effect of the hydraulic discharge boundary.

2.3 September 2013 Groundwater and Surface Water Monitoring Event

Personnel from Golder visited the facility on September 18-19, 2013, to purge and sample the 12 monitoring wells (MW-5, MW-6, MW-7, MW-8, MW-10, MW-11, MW-12, MW-13, AMW-1S, AMW-1D, AMW-2S, and AMW-2D) at the closed MSW and C&D landfills and to sample six surface water monitoring points (BR-1, BR-2, BR-3, SW-1, TSW-1, and TSW-2). Depth-to-water measurements were obtained from the monitoring wells to the nearest 0.01 foot using an electronic water level indicator prior to purging the wells.

All monitoring wells, except for MW-11, were purged and sampled with disposable bailers. At least three casing volumes of groundwater were removed from each well prior to sampling. Measurements of

temperature, pH, specific conductivity, and turbidity were recorded after each purge volume and at the time of sampling with field-calibrated instruments to monitor groundwater quality.

Monitoring well MW-11 was purged and sampled using a portable bladder pump because the well casing was bent during construction of the new convenience center and a bailer can no longer be lowered to the bottom of the well. Measurements of pH, specific conductivity, turbidity, dissolved oxygen, temperature, and oxidation-reduction potential were recorded after each system volume collected during the purge with field-calibrated instruments to monitor for stabilization of water quality. The purge rate was matched to the yield of the monitoring well, as determined by continuously monitoring the depth to water, up to a maximum purge rate of 500 milliliters per minute. Purging was continued until stabilization was indicated by the field parameters.

The groundwater samples were collected directly from the bailer or bladder pump discharge line in the labeled, laboratory-supplied, pre-preserved sample containers after purging was completed. 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.

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 on each log is a description of the sampling equipment, sampling location, sampling method, field observations, and water quality measurements.

The surface water samples BR-1, BR-2, BR-3, SW-1, and TSW-2 were collected by lowering the sample containers into the stream flow with the opening facing away from the current flow, taking care to prevent the overflow of the sample containers and to minimize sample-induced turbidity. Measurements of temperature, pH, specific conductivity, oxidation-reduction potential, and turbidity were recorded during the collection of the surface water samples. Surface water monitoring point TSW-1 had no discernable flow and a sample was not collected during the September 2013 event.

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 equipment, sampling location, sampling method, field observations, and water quality measurements.

2.4 Laboratory Analysis Program

The September 2013 groundwater and surface water samples were shipped to Environmental Conservation Laboratories, Inc. (ENCO) of Cary, North Carolina under chain-of-custody control. The samples were received at the laboratory on September 20, 2013, in good condition and properly preserved. Groundwater samples from the compliance MSW wells and the assessment wells were analyzed for the NC Appendix I list of constituents and mercury. Groundwater samples from the closed C&D facility were analyzed for the NC Appendix I list of constituents, 2,4-D, tetrahydrofuran, and indicator parameters specified in Title 15A NCAC 13B.0566. Surface water samples BR-1, BR-2, BR-3, and

SW-1, were analyzed for the NC Appendix I list of constituents. Surface water sample TSW-2 was analyzed for the NC Appendix I VOC list only.

2.5 September 2013 Sampling Results for the Closed MSW Landfill

Analytical results for the September 2013 groundwater samples at the closed MSW landfill are summarized in Table 3 with available historical data. The laboratory certificates-of-analysis, chain-of-custody form, and laboratory data reviews for the sampling event are included in Appendix B.

As presented, four NC Appendix I inorganic constituents (barium, cobalt, lead, and zinc) were detected at the MSW landfill at concentrations above their respective Solid Waste Section Limits (SWSLs) in samples from one or more MSW downgradient monitoring wells during the September 2013 monitoring event. Eight NC Appendix I VOCs (benzene, chlorobenzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, methylene chloride, tetrachloroethene, toluene, and trichloroethene) were detected above their respective SWSLs in one or more downgradient monitoring wells at the closed MSW landfill during the September 2013 event. Mercury was detected in the sample from AMW-2S at a concentration above the SWSL.

As presented in Table 5, two NC Appendix I inorganic constituents (barium and zinc) were detected above their respective SWSLs in one or more surface water points during the September 2013 event. One NC Appendix I VOC (1,4-dichlorobenzene) was detected above the SWSL in surface water monitoring point BR-2 during the sampling event.

2.6 September 2013 Sampling Results for the Closed C&D Landfill

Analytical results for the September 2013 groundwater samples at the closed C&D landfill are summarized in Table 4 with available historical data. The laboratory certificates-of-analysis, chain-of-custody form, and laboratory data reviews for the sampling event are included in Appendix B.

Two NC Appendix I inorganic constituent (beryllium and zinc) were reported to be present in samples from one or more downgradient monitoring wells at concentrations above their respective SWSL during this event. Mercury was detected in the sample from MW-13 at a concentration above the SWSL. During the September 2013 monitoring event, eight NC Appendix I inorganic constituents (barium, beryllium, chromium, cobalt, copper, lead, vanadium, and zinc) were reported at concentrations that exceeded their respective SWSL in the upgradient monitoring well. These detections are attributed to entrained sediment in the sample collected for MW-10 as indicated by high turbidity values recorded on the enclosed groundwater monitoring log.

The indicator parameters iron and manganese were reported at concentrations above their respective SWSLs in samples collected from the upgradient and each downgradient monitoring wells. One NC Appendix I VOC (trichlorofluoromethane) was detected in samples from downgradient wells above its SWSL during the September 2013 event at the closed C&D landfill. Tetrahydrofuran was reported at

concentrations greater that the laboratory reporting limit in each of the downgradient monitoring wells during this event.

3.0 LABORATORY AND FIELD QA/QC

A field blank was collected by Golder personnel as part of the September 2013 groundwater and surface water sampling event. In addition to the field blank, a laboratory-prepared trip blank accompanied the volatile sample containers for the September 2013 sampling event to and from the laboratory. ENCO analyzed the field blank for the NC Appendix I list of parameters plus mercury and tetrahydrofuran. The trip blank was analyzed for NC Appendix I VOCs and tetrahydrofuran.

A review of the laboratory data was performed by Golder (Appendix B). Sulfate and thallium were detected at low-level concentrations in one or more of the laboratory method blanks and barium and manganese were reported to be present in the field blank. Based on Golder's review of the laboratory data, concentrations of the following constituents have been blank-qualified in the associated samples at the closed MSW landfill: barium (AMW-2D), thallium (MW-6, MW-7, MW-8, and AMW-1S), and sulfate (MW-10).

4.0 DATA EVALUATION

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

4.1 North Carolina Groundwater and Surface Water Quality Standard Comparisons for the Closed MSW Landfill

As presented in Table 3, three NC Appendix I inorganic constituents were detected at quantifiable concentrations that exceeded their respective North Carolina 2L Groundwater Standards (2L Standards) or Solid Waste Section Groundwater Protection Standards (GPS) in samples from monitoring wells at the MSW landfill during the September 2013 monitoring event. Barium was reported in the sample collected from MW-8 at a concentration that exceeded its SWSL and NC 2L Standard. Cobalt was reported in the samples from MW-6 and MW-7 at concentrations that exceeded its SWSL and GPS. Lead was detected in the sample from MW-6 at a concentration that exceeded its SWSL and NC 2L Standard. Cobalt, and vanadium were also detected in samples from one or more downgradient wells at estimated concentrations below their respective SWSLs, but above their respective NC 2L or GPS. These constituents have been detected at similar concentrations during previous events. Thallium was detected in samples from one or more downgradient wells at blank-qualified concentrations below the SWSL, but above the NC 2L Standard.

As presented on Table 3, three NC Appendix I organic constituents were detected at concentrations that exceeded their respective SWSLs and NC 2L Standards in samples from monitoring wells at the MSW landfill during the September 2013 event. Benzene was reported in the samples from MW-6, MW-7, and AMW-1D; 1,4-dichlorobenzene was reported in the sample from MW-7; and tetrachloroethene was reported in the sample from MW-8 at concentrations above their respective SWSL and NC 2L Standards.

Vinyl chloride was detected in samples from MW-7, AMW-1D, and AMW-2S at estimated concentrations below the SWSL, but above the NC 2L Standard. These detected constituents and concentrations are generally consistent with reported concentrations during recent events at the closed MSW landfill. As presented on Table 5, no NC Appendix I constituents were detected in surface water samples at concentrations above applicable surface water standards during the September 2013 event.

4.2 North Carolina Groundwater Standard Comparisons for the Closed C&D Landfill

As presented on Table 4, five NC Appendix I inorganic constituents (beryllium, chromium, cobalt, lead, and vanadium) were reported in the sample collected from the upgradient monitoring well MW-10 at concentrations that exceeded their SWSL and applicable groundwater standard at the C&D landfill during the September 2013 event. These elevated concentrations of inorganic constituents in MW-10 are attributed to entrained sediment in the sample collected from this monitoring location as evidenced by a high turbidity value recorded for this well. Cobalt and vanadium were reported in samples from one or more downgradient wells at estimated concentrations below the SWSL, but above the respective GPS during the event. Both constituents have been detected at similar concentrations in samples from the upgradient well and downgradient wells during previous events. The indicator parameters iron and manganese were reported at a concentrations greater than their respective SWSL and NC 2L Standard in samples from each monitoring well during the event. Based on iron and manganese concentrations in recent samples from the background well and downgradient wells, the concentrations of iron and manganese in the samples appear to be naturally occurring.

As presented on Table 4, one NC Appendix I VOC (vinyl chloride) was reported at estimated concentrations below the SWSLs, but above the NC 2L Standards in samples from one or more downgradient monitoring wells during the September 2013 event at the closed C&D landfill. The detections of VOCs in downgradient monitoring wells may be associated with landfill gas as discussed in an ASD submitted to NCDENR on September 28, 2010.

4.3 Statistical Evaluations

As discussed above, three NC Appendix I inorganic constituents (barium, cobalt, and lead) were reported above their respective SWSLs and applicable water quality standards in samples from one or more downgradient wells for the MSW landfill during the September 2013 event. The concentrations of barium in the sample collected from MW-8, cobalt in MW-6 and MW-7, and lead in MW-6 were statistically evaluated in accordance with the procedures outlined in 15A NCAC 13B.1632(g) and (h) to determine if the reported concentrations exceeded the facility background concentrations. The statistical worksheets are presented as Appendix C. The concentrations of barium , cobalt, and lead were determined to be below the background concentrations during this event, and therefore; no further action is required.

5.0 CONCLUSIONS

Due to the continued presence of VOCs above applicable groundwater standards, Henderson County will continue to monitor the uppermost aquifer beneath the MSW in accordance with the requirements of the Assessment Monitoring Program as outlined in Title 15A NCAC 13B.1634. Henderson County is also continuing with groundwater assessment activities as presented in the Work Plan, approved by NCDENR on December 18, 2009. An ACM was submitted to NCDENR on April 15, 2013, and subsequently approved by NCDENR on May 22, 2013. The County held a public hearing to discuss the ACM and potential remedies for the site on August 15, 2013, and are now proceeding with activities related to the Corrective Action Plan.

An Alternate Source Demonstration (ASD) was submitted to NCDENR on September 28, 2010, to address the source of the VOCs in recent samples from the closed C&D landfill wells. Based on the data and evaluations from the ASD, it is apparent that leachate from the C&D unit is not the likely source of the VOC concentrations that have been detected in the C&D landfill downgradient monitoring wells. Additionally, the data suggest that the source of the VOCs detected in these monitoring wells is most likely landfill gas. However, a letter from NCDENR dated May 12, 2011, instructed the County to initiate an Assessment Monitoring Program for the C&D facility. This is the fifth event where no quantifiable concentrations of VOCs were reported in samples from downgradient wells in excess of their applicable groundwater standards.

Based on the results summarized herein, the County will continue monitoring the MSW and C&D landfills in accordance with the requirements of the Assessment Monitoring Program as outlined in Title 15A NCAC 13B.1634 and Title 15A NCAC 13B.0545. The next compliance monitoring event for this facility is tentatively scheduled for March 2014.

6.0 REFERENCES

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North Carolina Geologic Survey, 1985. Geologic Map of North Carolina

North Carolina Geologic Survey, 2004. Modified from 1991 Generalized Geologic Map (digital representation)

TABLES

TABLE 1

Summary of Historical Static Water Level Data
Henderson County Closed MSW and C&D Landfills, Permit No. 45-01

	Monitoring Well																
	MW-5	**MW-6**	**MW-7**	**MW-8**	**MW-9**	**MW-10**	**MW-11**	**MW-12**	**MW-13**	**AMW-1S**	**AMW-1D**	**AMW-2S**	**AMW-2D**	**MW-1 (Old)**	**MW-1**	**MW-2 (Old)**	**MW-2**
TOC Elevation (ft AMSL)	2389.82	2204.24	2210.66	2235.87	2259.59	2404.55	2307.72	2300.09	2296.33	2193.09	2190.77	2177.66	2177.58	2206.42	2205.76	2182.77	2182.07
Date	**Static Water Elevation (ft AMSL)**																
10/04/06	2334.31	2191.02	2191.61	2209.54	2244.64	--	--	--	--	2179.83	2176.67	--	--	--	--	--	--
03/21/07	--	--	--	--	--	2371.42	2266.46	2250.25	2252.90	--	--	--	--	--	--	--	--
10/02/07	2331.55	2188.19	2189.95	2207.85	2244.08	--	--	--	--	2176.63	2174.07	--	--	--	--	--	--
04/03/08	2326.17	2190.65	2190.63	2209.61	2244.03	--	--	--	--	2180.41	2177.04	--	--	--	--	--	--
10/29/08	2322.17	2186.73	2188.87	2206.91	2242.52	2364.42	2258.56	2246.56	2245.91	2175.87	2173.56	2168.25	2170.93	--	--	--	--
03/24/09	2319.25	2188.30	2189.28	2208.43	2242.21	2363.04	2256.50	2244.43	2244.51	2178.99	2176.04	2169.29	2172.05	--	--	--	--
09/21-24/09	2326.37	2194.99	2190.56	2209.46	2243.29	2367.33	2258.97	2245.20	2245.56	2180.79	2177.56	2170.17	2174.88	2200.47	2200.58	2174.92	2174.14
03/22-23/10	2342.62	<2185.22	2193.88	2208.53	2236.04	2376.31	2258.18	2250.60	2253.17	2182.71	2178.32	2170.28	2173.33	2200.91	2201.11	2175.02	2164.27
09/21-22/10	2338.34	2189.98	2191.49	2210.62	2245.16	2369.83	2267.16	2250.78	2253.84	2177.74	2173.85	2171.40	2170.92	2199.72	2199.58	2163.77	2171.73
03/15-16/11	2333.36	2194.83	2191.45	2211.13	2245.10	2367.12	2263.36	2248.90	2251.00	2181.44	2176.77	2169.72	2171.74	2200.61	2200.72	2174.81	2173.04
09/20-21/11	2331.91	2189.10	2190.61	2209.78	2244.95	2368.37	2260.95	2249.18	2250.57	2177.42	2173.77	2168.40	2170.86	2199.74	2199.44	2173.97	2171.72
03/20-22/12	2330.51	2189.49	2191.15	2210.25	2244.54	2367.47	2260.61	2248.24	2249.98	2178.99	2175.58	2169.04	2171.08	2200.24	2200.13	2174.36	2172.34
09/19-20/12	2328.67	2189.64	2190.07	2209.24	--	2367.05	2260.07	2247.39	2249.08	2177.89	2175.53	2169.33	2172.33	--	--	--	--
03/20/13	2330.45	2189.68	2190.54	2210.79	2244.43	2367.57	2259.14	2247.66	2249.30	2179.83	2176.77	2169.69	2173.50	2200.44	2200.45	2174.59	2172.83
09/18/13	2342.55	2190.92	2191.97	2212.33	2249.63	2375.12	2265.42	2252.34	2255.88	2179.38	2176.39	2168.98	2174.27	2198.04	2198.73	2174.20	2172.58
MEAN	*2331.30*	*2190.27*	*2190.86*	*2209.61*	*2243.89*	*2368.75*	*2261.28*	*2248.46*	*2250.14*	*2179.14*	*2175.85*	*2169.50*	*2172.35*	*2200.02*	*2200.09*	*2173.21*	*2171.58*
MAXIMUM	*2342.62*	*2194.99*	*2193.88*	*2212.33*	*2249.63*	*2376.31*	*2267.16*	*2252.34*	*2255.88*	*2182.71*	*2178.32*	*2171.40*	*2174.88*	*2200.91*	*2201.11*	*2175.02*	*2174.14*
MINIMUM	*2319.25*	*2186.73*	*2188.87*	*2206.91*	*2236.04*	*2363.04*	*2256.50*	*2244.43*	*2244.51*	*2175.87*	*2173.56*	*2168.25*	*2170.86*	*2198.04*	*2198.73*	*2163.77*	*2164.27*

Notes: ft AMSL = feet above mean sea level.
TOC = top of casing
-- = no data available
Historical data prior to March 2009 provided by Henderson County and CDM.
The stick-ups on monitoring wells MW-9, MW-11, and MW-13 were modified prior to the September 2011 event and the TOC elevations for those wells have been resurveyed.

TABLE 2

Summary of Estimated Horizontal Flow Velocities
Henderson County Closed MSW and C&D Landfills, Permit No. 45-01

September 2013							
Gradient Calculation Segment	**Flow Direction**	**Gradient Segment Length (feet)**	**Gradient Segment Elevations (feet)**	**Horizontal Gradient (i, feet)**	**Effective Porosity (n_e)**	**Hydraulic Conductivity (K, cm/sec)**	**Velocity (V_{gw}, feet/year)**
i_1	SW	1421	2320 / 2200	0.0845	0.15	1.26E-04	73.58
i_2	SSW	1593	2340 / 2200	0.0879	0.15	1.26E-04	76.54
i_3	WSW	380	2360 / 2260	0.2634	0.15	1.26E-04	229.43

Notes: Horizontal velocities based on the modified Darcy equation $V_{gw} = Ki/n_e$.
Value for K is collected from the average of measured hydraulic conductivities from the December 2008 CDM Report.
Value for n_e is an estimated effective porosity used in previous CDM reports.

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
Antimony	ug/L	12/05/94	6	ND	ND	ND	ND	--	--	--	--	ND	--
SWS GPS = 1 ug/L	ug/L	02/14/95	6	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	6	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	6	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	6	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	6	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	6	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	6	ND	ND	3	ND	--	--	--	--	ND	--
	ug/L	05/14/98	6	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	6	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	6	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	6	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	6	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	6	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	6	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	6	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	6	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	6	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	6	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	6	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	6	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	6	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	6	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	6	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	6	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	6	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	6	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	6	ND	ND	ND	ND	ND	ND	--	--	0.91 J	ND
	ug/L	10/02/07	6	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	6	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	6	ND	Dry	ND	0.441 J	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	6	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	6	0.226 J	ND	0.286 J	ND	0.460 J	0.382 J	ND	0.365 J	--	ND
	ug/L	09/21/11	6	ND	0.478 J	0.408 J	0.287 J	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	6	0.320 J	ND	ND	0.906 J	ND	0.236 J	ND	ND	ND	ND
	ug/L	09/20/12	6	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	6	ND	ND	ND	0.621 J	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	6	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
Arsenic	ug/L	12/05/94	10	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 10 ug/L	ug/L	02/14/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	ND	ND	ND	10.1	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	ND	ND	ND	ND	11.1	--	--	ND	--
	ug/L	10/20/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	14.7	ND	21.3	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	ND	0.84 J	0.94 J	0.46 J	1.13 J	ND	--	--	ND	ND
	ug/L	10/02/07	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	10	2.07 J	2.45 J	3.04 J	5.07 J	ND	ND	3.64 J	10.5	ND	ND
	ug/L	10/29/08	10	ND	13.9	7.18 J	ND	ND	5.98 J	5.38 J	2.96 J	ND	ND
	ug/L	03/24/09	10	ND	ND	ND	3.1 J	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	10	ND	5.40 B	7.18 B	ND	ND	ND	ND	ND	--	2.90 J
	ug/L	03/22/10	10	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	10	ND	5.27 J	ND	4.58 J	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	10	ND	ND	5.48 J	6.93 J	ND	ND	4.29 J	3.03 J	--	ND
	ug/L	03/21/12	10	3.80 J	ND	ND	ND	ND	ND	ND	4.00 J	ND	ND
	ug/L	09/20/12	10	ND	ND	ND	ND	ND	ND	ND	ND	--	3.27 J
	ug/L	03/20/13	10	ND	ND	ND	ND	ND	ND	ND	3.04 J	ND	ND
	ug/L	09/18/13	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
Barium	ug/L	12/05/94	100	134	237	378	528	--	--	--	--	207	--
NC 2L = 700 ug/L	ug/L	02/14/95	100	ND	416	439	601	--	--	--	--	205	--
	ug/L	04/03/95	100	174	493	350	786	--	--	--	--	197	--
	ug/L	10/30/95	100	348	539	230	835	--	--	--	--	358	--
	ug/L	04/08/96	100	199	332	264	790	--	--	--	--	140	--
	ug/L	10/24/96	100	300	--	338	925	--	--	--	--	285	--
	ug/L	04/15/97	100	180	--	300	810	--	--	--	--	360	--
	ug/L	10/29/97	100	200	700	500	700	--	--	--	--	100	--
	ug/L	05/14/98	100	ND	ND	ND	628	--	--	--	--	ND	--
	ug/L	10/11/98	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	100	ND	ND	ND	552	--	--	--	--	ND	--
	ug/L	10/29/99	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	100	ND	ND	ND	ND	258	--	--	--	ND	--
	ug/L	11/07/00	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	100	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	100	ND	ND	ND	604	--	--	--	--	ND	--
	ug/L	10/16/01	100	ND	178	116	298	--	ND	--	--	ND	--
	ug/L	04/24/02	100	ND	ND	ND	642	ND	ND	--	--	ND	--
	ug/L	10/01/02	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	100	ND	ND	ND	522	ND	ND	--	--	ND	--
	ug/L	10/20/03	100	ND	ND	ND	720	ND	ND	--	--	ND	--
	ug/L	03/24/04	100	ND	ND	ND	829	ND	ND	--	--	ND	--
	ug/L	10/27/04	100	ND	530	ND	866	ND	ND	--	--	ND	--
	ug/L	05/25/05	100	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	100	ND	ND	ND	982	ND	ND	--	--	ND	--
	ug/L	04/25/06	100	ND	687	ND	822	ND	ND	--	--	ND	--
	ug/L	10/04/06	100	ND	562	ND	920	ND	ND	--	--	ND	ND
	ug/L	03/21/07	100	47.5 J	136	294	992	306	27.2 J	--	--	49.9 J	ND
	ug/L	10/02/07	100	135	904	198	695	563	37.4 B	--	--	54.3 B	16.1 J
	ug/L	04/03/08	100	87.8 J	86.8 J	144	714	476	20.3 B	44.3 B	39.4 B	65.9 J	10.1 J
	ug/L	10/29/08	100	69.9 J	795	227	429	930	28.2	24.9 J	19.4 J	62.1 J	ND
	ug/L	03/24/09	100	26.2 J	54.5 J	203	517	221	19.0 J	15.4 J	ND	56.7 J	ND
	ug/L	09/22/09	100	31.5 J	48.9 J	259	916	323	11.7 J	19.1 J	5.46 J	--	ND
	ug/L	03/22/10	100	28.2 J	Dry	268	693	79.9 J	23.1 J	9.57 J	4.16 B	--	1.54 J
	ug/L	09/23/10	100	34.3 J	335	302	1130	86.5 J	13.1 J	7.69 J	1.79 J	--	ND
	ug/L	03/16/11	100	71.3 J	39.4 J	417	414	216	8.14 J	85.4 J	2.71 J	--	ND
	ug/L	09/21/11	100	40.2 J	482	453	1370	214	12.2 J	14.0 J	2.07 J	--	ND
	ug/L	03/21/12	100	60.8 J	315	481	1070	412	14.5 J	7.28 J	1.64 J	180	ND
	ug/L	09/20/12	100	28.9 J	58.9 J	464	454	390	12.2 J	12.9 J	2.15 J	--	ND
	ug/L	03/20/13	100	51.9 J	33.4 J	518	957	342	10.4 J	8.94 J	1.74 B	192	1.34 J
	ug/L	09/18/13	100	57.7 J	218	590	787	400	11.3 J	26.6 J	2.75 B	--	1.08 J
Beryllium	ug/L	12/05/94	1	ND	ND	3	7	--	--	--	--	ND	--
SWS GPS = 4 ug/L	ug/L	02/14/95	1	ND	ND	4	5	--	--	--	--	ND	--
	ug/L	04/03/95	1	ND	2	3	9	--	--	--	--	ND	--
	ug/L	10/30/95	1	ND	ND	ND	5	--	--	--	--	ND	--
	ug/L	04/08/96	1	ND	ND	ND	4	--	--	--	--	ND	--
	ug/L	10/24/96	1	ND	--	ND	4	--	--	--	--	ND	--
	ug/L	04/15/97	1	ND	--	ND	8	--	--	--	--	ND	--
	ug/L	10/29/97	1	ND	3	3	14	--	--	--	--	1	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	1	ND	ND	ND	2.4	--	--	--	--	ND	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	1	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	1	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	1	4.2	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	1	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	ND	ND	ND	1.06 J	5.1 J	ND	--	--	ND	ND
	ug/L	10/02/07	1	ND	ND	ND	ND	ND	ND	--	--	22.8 B	6.01
	ug/L	04/03/08	1	1.07	2.8	6.28	ND	5.41	3.2	ND	2.33	1.54	ND
	ug/L	10/29/08	1	4.60	5.96	2.23	10.2	10.7	5.45	10.7	2.23	11.2	ND
	ug/L	03/24/09	1	0.35 J	0.20 J	0.82 J	3.02	1.30	ND	0.18 J	ND	0.35 J	ND
	ug/L	09/22/09	1	0.438 J	0.299 J	0.771 J	1.26	0.438 J	ND	0.470 J	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	0.635 J	ND	0.631 J	ND	ND	0.247 J	--	ND
	ug/L	09/23/10	1	0.198 J	ND	0.570 J	ND	0.492 J	ND	ND	ND	--	ND
	ug/L	03/16/11	1	0.208 J	ND	0.422 J	ND	1.06	ND	1.80	ND	--	ND
	ug/L	09/21/11	1	ND	0.183 J	0.707 J	1.13	1.37	ND	0.138 J	ND	--	ND
	ug/L	03/21/12	1	0.222 J	ND	0.260 J	0.189 J	1.96	ND	ND	ND	1.37	ND
	ug/L	09/20/12	1	ND	ND	0.298 J	0.443 J	1.68	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	0.258 J	0.327 J	0.420 J	ND	ND	ND	1.68	ND
	ug/L	09/18/13	1	ND	ND	0.105 J	ND	0.484 J	ND	0.331 J	ND	--	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
Cadmium	ug/L	12/05/94	1	ND	ND	22	ND	--	--	--	--	ND	--
NC 2L = 2 ug/L	ug/L	02/14/95	1	ND	ND	3	ND	--	--	--	--	ND	--
	ug/L	04/03/95	1	ND	ND	1	ND	--	--	--	--	ND	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	1	ND	9	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	1	ND	5.6	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	1	ND	1.2	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	1	ND	2.3	1.7	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	1	ND	15	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	1	ND	3.2	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	1	ND	2	--	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	1	ND	2	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	1	ND	2	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	1	ND	1.35	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	1	ND	3.34	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	1	ND	11.6	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	1	ND	1.31	1.28	1.08	1	ND	--	--	ND	--
	ug/L	05/25/05	1	ND	1.9	1.02	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	1	ND	ND	1.39	ND	2.57	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	1.73 J	1.27	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	1.57 J	0.65 J	2.35 J	2.08 J	2.5 J	1.38 J	--	--	1.4 J	ND
	ug/L	10/02/07	1	ND	ND	1.63	0.4 J	ND	ND	--	--	ND	ND
	ug/L	04/03/08	1	ND	0.2 J	0.9 J	0.47 J	0.29 J	ND	ND	ND	ND	ND
	ug/L	10/29/08	1	ND	3.09	0.43 J	0.2 J	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	1	ND	0.22 J	0.18 J	1.06	0.61 J	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	0.667 J	ND	0.659 J	0.627 J	ND	ND	1.24	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1	ND	ND	0.493 J	0.618 J	0.416 J	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	0.517 J	ND	ND	1.07	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	ND	0.666 J	0.441 J	0.841 J	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	0.673 J	ND	2.13	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	0.655 J	ND	2.87	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	3.30	ND	1.20	ND	ND	ND	ND	ND
	ug/L	09/18/13	1	ND	ND	0.785 J	ND	0.669 J	ND	ND	ND	--	ND
Chromium	ug/L	12/05/94	10	ND	ND	56	ND	--	--	--	--	ND	--
NC 2L = 10 ug/L	ug/L	02/14/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	10	11	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	10	5	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	10	3	--	ND	2	--	--	--	--	2	--
	ug/L	10/29/97	10	3	8	2	2	--	--	--	--	1	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	20.1	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	14.9	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	11.4	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	11.3	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	3.33 J	3.81 J	6.01 J	4.12 J	2.7 J	1.29 J	--	--	1.44 J	ND
	ug/L	10/02/07	10	9.55 B	9.44 B	7.31 B	4.47 B	5.99 B	12.3 B	--	--	3.67 B	3.67 J
	ug/L	04/03/08	10	6.54 B	4.93 B	4.18 B	4.42 B	4.18 B	3.31 B	4.18 B	130	2.45 B	2.94 J
	ug/L	10/29/08	10	7.45 J	35.5	8.07 J	6.10 J	8.55	11.3	5.24 J	13.7	4.63 J	ND
	ug/L	03/24/09	10	ND	1.0 J	1.6 J	4.0 J	1.2 J	ND	ND	1.5 J	ND	ND
	ug/L	09/22/09	10	1.36 J	ND	1.99 J	3.28 J	1.14 J	ND	1.61 J	1.51 J	--	ND
	ug/L	03/22/10	10	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	10	ND	ND	1.50 J	4.38 J	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	10	2.55 J	1.32 J	2.90 J	3.29 J	1.60 J	ND	3.34 J	ND	--	ND
	ug/L	09/21/11	10	ND	6.75 J	5.20 J	12.4	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	10	2.15 J	3.60 J	2.25 J	4.57 J	3.36 J	ND	ND	ND	ND	ND
	ug/L	09/20/12	10	ND	ND	1.31 J	2.42 J	2.29 J	ND	ND	ND	--	ND
	ug/L	03/20/13	10	2.48 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	10	ND	4.80 J	5.25 J	3.23 J	ND	ND	ND	ND	--	ND
Cobalt	ug/L	12/05/94	10	ND	41	ND	ND	--	--	--	--	ND	--
SWS GPS = 1 ug/L	ug/L	02/14/95	10	ND	48	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	10	ND	38	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	10	ND	34	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	10	ND	32	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	10	2	--	19	2	--	--	--	--	3	--
	ug/L	10/29/97	10	ND	19	7	ND	--	--	--	--	ND	--
	ug/L	05/14/98	10	ND	53.4	17.3	ND	--	--	--	--	ND	--
	ug/L	10/11/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	10	ND	52.3	11.5	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	12.5	ND	14.3	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	14	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	10	ND	17.9	ND	ND	16.1	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	11.4	ND	ND	11.7	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	13.1	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	ND	32.1	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	94.9	16	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	120	18.5	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	35.5	16.8	--	13.4	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	23.5	16.2	ND	16.1	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	18.8	13.9	ND	16.1	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	15.4	13.4	ND	18.9	ND	--	--	ND	ND
	ug/L	03/21/07	10	1.13 J	11.3	12.6	1.5 J	16.2	ND	--	--	ND	ND
	ug/L	10/02/07	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	10	ND	12.4	ND	ND	15.1	ND	12.5	ND	ND	ND
	ug/L	10/29/08	10	3.55 J	35.9	5.16 J	3.74 J	24.8	ND	3.91 J	ND	ND	ND
	ug/L	03/24/09	10	0.6 J	3.1 J	ND	5.8 J	10.7	ND	4.0 J	ND	ND	ND
	ug/L	09/22/09	10	ND	4.81 J	ND	2.50 J	10.8	ND	ND	ND	--	ND
	ug/L	03/22/10	10	ND	Dry	ND	6.33 J	3.47 J	ND	ND	ND	--	ND
	ug/L	09/23/10	10	ND	2.13 J	ND	9.21 J	3.42 J	ND	ND	ND	--	ND
	ug/L	03/16/11	10	ND	ND	ND	2.87 J	8.51 J	ND	1.26 J	ND	--	ND
	ug/L	09/21/11	10	ND	3.73 J	ND	7.48 J	9.15 J	ND	ND	ND	--	ND
	ug/L	03/21/12	10	ND	3.48 J	ND	3.74 J	18.4	ND	ND	ND	ND	ND
	ug/L	09/20/12	10	ND	ND	ND	3.20 J	16.0	ND	1.33 J	ND	--	ND
	ug/L	03/20/13	10	1.32 J	ND	ND	3.67 J	5.62 J	ND	ND	ND	ND	ND
	ug/L	09/18/13	10	ND	43.8	18.7	2.44 J	4.83 J	ND	2.33 J	ND	--	ND
Copper	ug/L	12/05/94	10	ND	ND	19	ND	--	--	--	--	ND	--
NC 2L = 1000 ug/L	ug/L	02/14/95	10	10	ND	ND	ND	--	--	--	--	16	--
	ug/L	04/03/95	10	ND	ND	13	12	--	--	--	--	14	--
	ug/L	10/30/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	10	13	--	ND	ND	--	--	--	--	10	--
	ug/L	04/15/97	10	20	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	10	20	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	12.4	12.8	4.23 J	5.28 J	5.41 J	5.15 J	--	--	9.92 J	ND
	ug/L	10/02/07	10	33.9	16.7 B	6.61 B	7.24 B	9.14 B	6.91 B	--	--	5.94 B	6.41 J
	ug/L	04/03/08	10	23.4	23.9	4.54 B	6.53 B	5.54 B	5.75 B	5.89 B	10.6 B	4.58 B	4.46 J
	ug/L	10/29/08	10	16.5	145	7.91 J	8.17 J	8.61	9.49	6.93 J	7.82 J	6.28 J	ND
	ug/L	03/24/09	10	2.32 J	4.96 J	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	10	5.15 J	6.17 J	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	10	1.84 J	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	10	1.77 J	ND	ND	9.93 J	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	10	9.85 J	6.75 J	ND	2.99 J	1.73 J	1.66 J	4.98 J	ND	--	ND
	ug/L	09/21/11	10	4.10 J	12.8	ND	14.2	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	10	8.77 J	ND	ND	2.96 J	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	10	1.77 J	3.29 J	ND	2.54 J	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	10	9.21 J	5.01 J	1.84 J	2.57 J	ND	1.99 J	ND	ND	ND	ND
	ug/L	09/18/13	10	5.69 J	9.55 J	ND	ND	ND	ND	1.99 J	ND	--	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
Lead	ug/L	12/05/94	10	ND	7	27	7	--	--	--	--	ND	--
NC 2L = 15 ug/L	ug/L	02/14/95	10	ND	10	5	ND	--	--	--	--	ND	--
	ug/L	04/03/95	10	ND	12	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	10	7	19	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	10	ND	6	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	10	8	--	7	ND	--	--	--	--	13	--
	ug/L	04/15/97	10	13	--	ND	12	--	--	--	--	12	--
	ug/L	10/29/97	10	9	36	5	11	--	--	--	--	ND	--
	ug/L	05/14/98	10	ND	14.4	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	10	ND	11.9	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	10	24	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	61.3	ND	17.4	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	11.9	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	12.7	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	ND	6.56 J	3.69 J	ND	3.14 J	ND	--	--	1.9 J	ND
	ug/L	10/02/07	10	69.2 J	7.18 J	1.39 B	0.9 B	0.80 B	0.56 B	--	--	0.57 B	0.49 J
	ug/L	04/03/08	10	75.8 J	16.4	ND	8 J	6.43 J	3.78 J	6.16 J	12.5	6.23 J	ND
	ug/L	10/29/08	10	75.9 J	84.7	7.72 J	6.83 J	9.41	9.08	8.50 J	6.93 J	4.54 J	ND
	ug/L	03/24/09	10	3.3 J	5.6 J	1.6 J	6.2 J	2.5 J	1.6 J	3.1 J	ND	ND	ND
	ug/L	09/22/09	10	3.52 J	2.55 J	ND	3.17 J	2.50 J	ND	3.96 J	1.95 J	--	ND
	ug/L	03/22/10	10	ND	Dry	ND	2.20 J	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	10	ND	ND	ND	12.2	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	10	4.92 J	ND	ND	3.40 J	ND	ND	25.6	2.69 J	--	ND
	ug/L	09/21/11	10	ND	15.5	3.27 J	18.5	2.57 J	ND	ND	ND	--	ND
	ug/L	03/21/12	10	4.38 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	10	2.53 B	3.10 B	4.18 B	5.91 B	4.90 B	4.40 B	4.82 B	3.00 B	--	2.70 J
	ug/L	03/20/13	10	ND	ND	3.46 J	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	10	ND	17.4	ND	ND	ND	ND	6.58 J	ND	--	ND
Mercury	ug/L	12/05/94	0.2	--	--	--	--	--	--	--	--	--	--
NC 2L = 1 ug/L	ug/L	02/14/95	0.2	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/95	0.2	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	0.2	0.5	ND	0.9	0.9	--	--	--	--	0.8	--
	ug/L	04/08/96	0.2	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	0.2	0.7	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	0.2	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	0.2	ND	ND	1.9	0.8	--	--	--	--	ND	--
	ug/L	05/14/98	0.2	ND	ND	2	0.2	--	--	--	--	ND	--
	ug/L	10/11/98	0.2	ND	ND	ND	0.2	--	--	--	--	ND	--
	ug/L	06/04/99	0.2	ND	ND	0.5	ND	--	--	--	--	ND	--
	ug/L	10/29/99	0.2	ND	ND	0.4	ND	--	--	--	--	ND	--
	ug/L	04/20/00	0.2	ND	ND	1.0	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	0.2	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	0.2	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	0.2	ND	ND	0.4	ND	--	--	--	--	ND	--
	ug/L	10/16/01	0.2	ND	ND	0.3	0.3	--	ND	--	--	0.3	--
	ug/L	04/24/02	0.2	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	0.2	ND	ND	0.3	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	0.2	ND	ND	0.3	ND	ND	ND	--	--	0.3	--
	ug/L	10/20/03	0.2	ND	ND	0.45	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	0.2	ND	ND	0.73	0.258	ND	ND	--	--	ND	--
	ug/L	10/27/04	0.2	ND	ND	0.91	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	0.2	ND	ND	0.72	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	0.2	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	0.2	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	0.2	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	0.2	ND	ND	0.134 J	0.242 J	ND	ND	--	--	ND	ND
	ug/L	10/02/07	0.2	ND	ND	ND	0.709	ND	ND	--	--	ND	ND
	ug/L	04/03/08	0.2	ND	ND	ND	0.489	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	0.2	ND	0.145 J	ND	0.503	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	0.2	ND	ND	ND	1.33	ND	ND	ND	ND	0.14 J	ND
	ug/L	09/22/09	0.2	ND	ND	0.0926 J	0.419	--	--	--	--	--	ND
	ug/L	03/22/10	0.2	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.2	ND	ND	ND	0.371	ND	ND	ND	ND	--	ND
(dissolved)	ug/L	09/23/10	0.2	--	--	--	ND	--	--	--	--	--	--
	ug/L	03/16/11	0.2	ND	ND	ND	ND	ND	ND	0.178 J	ND	--	ND
	ug/L	09/21/11	0.2	ND	ND	ND	0.683	ND	ND	0.225	ND	--	ND
	ug/L	03/21/12	0.2	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/20/12	0.2	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.2	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/18/13	0.2	ND	ND	ND	ND	ND	ND	0.302	ND	--	ND
Nickel	ug/L	12/05/94	50	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 100 ug/L	ug/L	02/14/95	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	50	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	50	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	50	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	50	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	50	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	50	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	50	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	50	ND	1.61 J	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	50	2.75 B	9.04 J	0.67 B	0.9 B	4.65 J	8.72 J	--	--	0.24 B	0.8 J
	ug/L	04/03/08	50	ND	ND	ND	ND	ND	ND	5.89 J	7.09 J	ND	ND
	ug/L	10/29/08	50	ND	47.3 J	ND	ND	8.13 J	7.57 J	6.40 J	4.99 J	ND	ND
	ug/L	03/24/09	50	ND	3.9 J	ND	2.8 J	2.5 J	0.9 J	2.2 J	ND	ND	ND
	ug/L	09/22/09	50	ND	3.77 J	ND	ND	2.54 J	2.04 J	ND	ND	--	ND
	ug/L	03/22/10	50	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	50	ND	2.28 J	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	50	ND	4.59 J	ND	ND	2.04 J	ND	ND	ND	--	ND
	ug/L	03/21/12	50	ND	3.62 J	ND	ND	3.14 J	ND	ND	ND	ND	ND
	ug/L	09/20/12	50	ND	ND	ND	ND	2.62 J	ND	ND	ND	--	ND
	ug/L	03/20/13	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	50	ND	8.99 J	4.74 J	ND	ND	ND	ND	ND	--	ND
Selenium	ug/L	12/05/94	10	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 20 ug/L	ug/L	02/14/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	10	ND	61.1	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	24.7	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	ND	--	20.6	--	--	ND	--
	ug/L	04/24/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	25.3	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	26.6	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	23.4	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	9.46 J	23.4	10.7 J	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	10	ND	7.49 J	ND	11.1	ND	ND	--	--	8.68 J	ND
	ug/L	04/03/08	10	ND	10.7	ND	ND	10.9	ND	9.54 J	7.51 J	ND	ND
	ug/L	10/29/08	10	ND	37.5	ND	ND	1.94	ND	ND	ND	ND	ND
	ug/L	03/24/09	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	10	6.68 B	ND	8.38 B	4.55 B	ND	7.33 B	4.11 B	5.98 B	--	6.41 J
	ug/L	03/22/10	10	ND	Dry	ND	ND	0.962 J	ND	ND	ND	--	ND
	ug/L	09/23/10	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	10	ND	ND	ND	ND	5.08 B	ND	ND	ND	--	3.32 J
	ug/L	09/21/11	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
Silver	ug/L	12/05/94	10	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 20 ug/L	ug/L	02/14/95	10	ND	ND	ND	ND	--	--	--	--	11	--
	ug/L	04/03/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	10	0.9	--	0.9	0.7	--	--	--	--	0.3	--
	ug/L	10/29/97	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	11.3	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	ND	0.64 J	3.42 J	0.5 J	1.14 J	0.46 J	--	--	3.18 J	ND
	ug/L	10/02/07	10	ND	1.82 J	0.91 J	ND	0.86 J	ND	--	--	ND	ND
	ug/L	04/03/08	10	ND	0.97 J	2.04 J	ND	0.94 J	ND	1.48 J	ND	ND	ND
	ug/L	10/29/08	10	4.74 J	6.91 J	5.23 J	5.00 J	6.32 J	5.19 J	4.91 J	4.33 J	5.24 J	ND
	ug/L	03/24/09	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	10	ND	ND	ND	ND	2.24 J	ND	ND	ND	--	ND
	ug/L	03/22/10	10	ND	Dry	ND	3.34 J	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	10	ND	2.52 J	ND	3.05 J	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	10	ND	3.73 J	ND	2.33 J	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	10	ND	ND	7.00 B	3.58 B	3.31 B	ND	2.17 B	ND	ND	2.11 J
	ug/L	09/18/13	10	ND	2.92 J	4.35 J	2.07 J	ND	ND	ND	ND	--	ND
Thallium	ug/L	12/05/94	5.5	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 0.28 ug/L	ug/L	02/14/95	5.5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	5.5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	5.5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5.5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	5.5	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	5.5	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	5.5	1	1	1	1	--	--	--	--	2	--
	ug/L	05/14/98	5.5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	5.5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	5.5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	5.5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	5.5	13.7	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	5.5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	5.5	--	--	--	--	--	--	--	--	--	--
	ug/L	06/21/01	5.5	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	5.5	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	5.5	ND	22.4	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	5.5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	5.5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	5.5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	5.5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	5.5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5.5	ND	77.1	22	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5.5	ND	58.5	54.6	17.8	ND	ND	--	--	ND	--
	ug/L	04/25/06	5.5	ND	81.3	24.2	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5.5	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5.5	ND	ND	24	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	5.5	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	5.5	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/29/08	5.5	ND	8.90	ND	6.97	9.61	ND	--	--	ND	ND
	ug/L	03/24/09	5.5	0.051 B	0.090 B	0.080 B	0.242 B	0.280 B	ND	ND	ND	ND	0.092 J
	ug/L	09/22/09	5.5	ND	ND	ND	0.404 J	0.212 J	ND	ND	ND	--	ND
	ug/L	03/22/10	5.5	ND	Dry	0.118 J	0.620 J	0.169 J	ND	ND	ND	--	ND
	ug/L	09/23/10	5.5	ND	ND	0.124 J	1.18 J	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	5.5	ND	ND	0.516 J	1.12 J	0.274 J	0.491 J	0.514 J	ND	--	ND
	ug/L	09/21/11	5.5	ND	ND	ND	1.53 J	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	5.5	ND	ND	0.119 J	1.31 J	0.418 J	ND	ND	ND	ND	ND
	ug/L	09/20/12	5.5	ND	0.144 J	0.155 J	1.09 J	0.512 J	ND	ND	ND	--	ND
	ug/L	03/20/13	5.5	0.117 J	ND	0.413 J	0.659 J	0.487 J	ND	ND	ND	ND	ND
	ug/L	09/18/13	5.5	ND	0.127 B	0.604 B	0.609 B	0.459 B	ND	ND	ND	--	0.142 J
Tin	ug/L	12/05/94	--	--	--	--	--	--	--	--	--	--	--
SWS GPS = 2000 ug/L	ug/L	02/14/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	--	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/11/98	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/04/99	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/99	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/20/00	--	--	--	--	--	--	--	--	--	--	--
	ug/L	11/07/00	--	--	--	--	--	--	--	--	--	--	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/16/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/24/02	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/01/02	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/09/03	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/20/03	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/24/04	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/27/04	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/25/05	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/04/05	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/25/06	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/04/06	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/21/07	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	10/02/07	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	04/03/08	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	10/29/08	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/24/09	100	ND	ND	1.4 J	5.4 J	1.3 J	2.0 J	1.5 J	ND	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	100	ND	Dry	ND	2.38 J	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	100	2.50 J	3.17 J	5.65 J	7.24 J	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	100	ND	3.86 J	3.42 J	4.51 J	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	100	ND	3.86 J	3.79 J	6.88 J	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--
Vanadium	ug/L	12/05/94	25	ND	ND	ND	ND	--	--	--	--	ND	--
SWS GPS = 0.3 ug/L	ug/L	02/14/95	25	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	25	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	25	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	25	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	25	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	25	13	--	ND	5	--	--	--	--	6	--
	ug/L	10/29/97	25	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	25	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	25	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	25	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	25	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	25	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	25	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	25	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	25	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	25	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	25	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	25	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	25	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	25	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	25	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	25	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	25	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	25	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	25	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	25	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	25	3.81 J	4.21 J	ND	1.31 J	ND	ND	--	--	ND	ND
	ug/L	10/02/07	25	17.1 J	12.9 J	5.6 J	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	25	9.73 J	10.7 J	ND	ND	ND	ND	ND	5.13 J	ND	ND
	ug/L	10/29/08	25	4.88 J	88.9	10.3 J	0.52 J	1.37 J	3.74 J	0.86 J	ND	ND	ND
	ug/L	03/24/09	25	2.2 J	3.2 J	1.7 J	9.0 J	ND	ND	3.0 J	0.9 J	0.7 J	ND
	ug/L	09/22/09	25	3.31 J	1.97 J	ND	5.45 J	ND	ND	6.35 J	1.52 J	--	ND
	ug/L	03/22/10	25	1.75 J	Dry	ND	1.76 J	ND	ND	1.78 J	1.42 J	--	ND
	ug/L	09/23/10	25	ND	ND	ND	14.7 J	ND	ND	4.79 J	ND	--	ND
	ug/L	03/16/11	25	4.98 J	2.77 J	ND	ND	ND	ND	15.3 J	ND	--	ND
	ug/L	09/21/11	25	2.21 J	8.14 J	2.88 J	17.3 J	ND	ND	11.1 J	ND	--	ND
	ug/L	03/21/12	25	4.72 J	ND	ND	ND	ND	ND	1.70 J	ND	ND	ND
	ug/L	09/20/12	25	1.79 J	1.77 J	ND	4.28 J	ND	ND	3.65 J	ND	--	ND
	ug/L	03/20/13	25	5.60 J	2.36 J	ND	2.47 J	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	25	2.71 J	12.4 J	ND	ND	ND	ND	9.96 J	ND	--	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
Zinc	ug/L	12/05/94	10	21	ND	33	20	--	--	--	--	82	--
NC 2L = 1000 ug/L	ug/L	02/14/95	10	33	44	29	69	--	--	--	--	113	--
	ug/L	04/03/95	10	29	48	26	29	--	--	--	--	20	--
	ug/L	10/30/95	10	25	30	ND	ND	--	--	--	--	23	--
	ug/L	04/08/96	10	44	63	22	67	--	--	--	--	36	--
	ug/L	10/24/96	10	37	--	22	18	--	--	--	--	39	--
	ug/L	04/15/97	10	50	--	50	30	--	--	--	--	40	--
	ug/L	10/29/97	10	ND	340	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	ND	ND	20.6	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	15.6 J	124	6.92 J	10.1 J	12.1 J	3.82 J	--	--	7.14 J	ND
	ug/L	10/02/07	10	44	49.1	12.6 J	5.43 J	6.23 J	ND	--	--	4.53 J	ND
	ug/L	04/03/08	10	31.9	46	5.82 J	10.4	4.83 J	4.06 J	14.1	27.7	5.53 J	ND
	ug/L	10/29/08	10	20.1	380	29.0	6.90 J	5.37 J	ND	5.37 J	ND	6.63 J	ND
	ug/L	03/24/09	10	10.7 B	56.3	9.3 B	38.3	4.1 B	3.4 B	7.7 B	ND	4.1 B	3.4 J
	ug/L	09/22/09	10	13.8	12.3	4.56 J	12.8	7.02 J	5.92 J	18.0	8.77 J	--	ND
	ug/L	03/22/10	10	9.18 J	Dry	8.52 J	36.7	15.6	7.21 J	11.2	7.25 J	--	ND
	ug/L	09/23/10	10	ND	ND	5.37 J	168	4.30 J	5.86 J	ND	ND	--	ND
	ug/L	03/16/11	10	17.6	36.7	7.03 J	611	4.64 J	17.5	44.8	4.77 J	--	ND
	ug/L	09/21/11	10	9.32 J	44.1	9.85 J	430	4.44 J	11.7	14.2	4.57 J	--	ND
	ug/L	03/21/12	10	14.9	28.8	ND	48.3	ND	6.06 J	ND	ND	ND	ND
	ug/L	09/20/12	10	5.18 J	6.60 J	ND	173	6.69 J	5.19 J	4.68 J	3.87 J	--	ND
	ug/L	03/20/13	10	21.3	12.5	6.76 J	60.1	9.19 J	6.32 J	ND	5.00 J	12.0	ND
	ug/L	09/18/13	10	12.0	45.7	5.04 J	40.5	4.40 J	ND	27.3	ND	--	ND
Acetone	ug/L	12/05/94	100	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 6000 ug/L	ug/L	02/14/95	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	100	ND	50	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	100	ND	98	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	100	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	100	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	100	ND	95	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	100	ND	330	ND	ND	--	--	--	--	ND	--
	ug/L	11/11/98	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	100	ND	780	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	100	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	100	ND	190	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	100	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	100	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/25/02	100	ND	190	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	100	ND	280	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/21/03	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/25/04	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	100	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/06/05	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/26/06	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/22/07	100	ND	ND	4.34 J	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	100	ND	9.81 B	ND	ND	1.76 B	ND	--	--	ND	5.5 J
	ug/L	04/03/08	100	ND	10.1 J	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/30/08	100	ND	13.8 J	ND	ND	7.95 J	ND	ND	ND	ND	ND
	ug/L	03/24/09	100	ND	280	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	100	ND	9.0 J	13 J	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	100	ND	Dry	55 J	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	100	ND	8.7 J	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	100	ND	16 J	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	100	ND	310	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	100	ND	2700	3.6 J	13 J	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	100	ND	ND	ND	5.4 B	ND	ND	ND	ND	--	7.0 J
	ug/L	03/20/13	100	ND	21 J	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	100	ND	34 J	ND	ND	ND	ND	ND	ND	--	ND
Acrylonitrile	ug/L	12/05/94	200	ND	ND	ND	ND	--	--	--	--	ND	--
No Standard	ug/L	02/14/95	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	200	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	200	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	200	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	200	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	200	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	200	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	200	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	200	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	200	ND	ND	ND	17.9 J	ND	ND	--	--	ND	ND
	ug/L	04/03/08	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	200	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	200	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	200	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	200	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	200	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	200	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	200	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
Benzene	ug/L	12/05/94	5	ND	11	ND	ND	--	--	--	--	ND	--
NC 2L = 1 ug/L	ug/L	02/14/95	5	ND	11	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	5	ND	8	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5	ND	9	3.9	ND	--	--	--	--	ND	--
	ug/L	10/24/96	5	ND	--	5	ND	--	--	--	--	ND	--
	ug/L	04/15/97	5	ND	--	6.9	ND	--	--	--	--	ND	--
	ug/L	10/29/97	5	ND	5	6	ND	--	--	--	--	ND	--
	ug/L	05/14/98	5	ND	8	6	ND	--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	ND	7	ND	--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	8	6	ND	--	--	--	--	ND	--
	ug/L	10/29/99	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	5	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	5	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	5	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	5	ND	6	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	5	ND	7	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	5	ND	6	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	5	ND	7.19	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	ND	7.61	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	6.23	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	6.8	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	1.36	2.48	3.55	0.44 J	1.52	--	--	ND	ND
	ug/L	10/02/07	5	ND	5.47	1.70	4.99	1.68	1.55	--	--	ND	ND
	ug/L	04/03/08	5	ND	0.37 J	1.57	5.82	0.98 J	1.48	1.28	ND	ND	ND
	ug/L	10/29/08	5	ND	3.08	1.51	6.23	2.13	1.49	1.25	ND	ND	ND
	ug/L	03/24/09	1	ND	ND	ND	0.64 J	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	1.4	4.2	0.44 J	1.3	1.2	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	1.4	ND	ND	1.1	0.75 J	ND	--	ND
	ug/L	09/23/10	1	ND	0.98 J	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	1.6	ND	ND	1.2	0.96 J	ND	--	ND
	ug/L	09/21/11	1	ND	4.6	1.4	0.85 J	ND	1.2	0.82 J	ND	--	ND
	ug/L	03/21/12	1	ND	ND	1.1	0.65 J	0.73 J	0.95 J	0.82 J	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	0.94 J	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	1.5	3.0	ND	1.2	1.2	ND	ND	ND
	ug/L	09/18/13	1	ND	2.9	1.7	0.89 J	0.56 J	1.1	0.86 J	ND	--	ND

Golder Associates

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
Carbon disulfide	ug/L	02/14/95	100	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 700 ug/L	ug/L	04/03/95	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	12/05/95	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	100	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	100	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	100	ND	15	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	100	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	100	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	100	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	100	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	100	ND	ND	ND	0.14 J	ND	ND	--	--	ND	ND
	ug/L	04/03/08	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	100	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
Carbon tetrachloride	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 0.3 ug/L	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	12/05/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	1	ND	ND	ND	2	--	--	--	--	ND	--
	ug/L	10/24/96	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	1	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	1	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	1	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
Chlorobenzene	ug/L	12/05/94	5	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 50 ug/L	ug/L	02/14/95	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	5	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	5	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	5	ND	7	3	ND	--	--	--	--	ND	--
	ug/L	05/14/98	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	8	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	7	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	5	ND	ND	ND	ND	8	--	--	--	ND	--
	ug/L	11/07/00	5	ND	7	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	5	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	5	ND	6	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	5	ND	7	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	5	ND	6	ND	ND	7	ND	--	--	ND	--
	ug/L	10/01/02	5	ND	8	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	5	ND	ND	ND	ND	6	ND	--	--	ND	--
	ug/L	10/20/03	5	ND	10	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	5	ND	11	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	5	ND	13	5	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	ND	ND	6	--	6.12	ND	--	--	ND	--
	ug/L	10/04/05	5	ND	13.4	6	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	10.8	6.02	ND	9.62	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	9	6	ND	16.2	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	1.34	5.89	0.59 J	2.83	4.62	--	--	ND	ND
	ug/L	10/02/07	5	ND	6.16	5.95	0.83 J	ND	5.13	--	--	ND	ND
	ug/L	04/03/08	5	ND	0.30 J	5.72	1.14 J	11.3	5.01	4.50	ND	ND	ND
	ug/L	10/29/08	5	ND	8.02	5.41	1.11 J	23.8	5.09	1.86 J	ND	ND	ND
	ug/L	03/24/09	3	ND	ND	4.6	ND	0.46 J	3.8	2.0 J	ND	ND	ND
	ug/L	09/22/09	3	ND	ND	5.7	0.75 J	4.9	4.9	1.0 J	ND	--	ND
	ug/L	03/22/10	3	ND	Dry	6.4	ND	ND	4.6	0.97 J	ND	--	ND
	ug/L	09/23/10	3	ND	7.5	6.3	ND	ND	4.2	0.55 J	ND	--	ND
	ug/L	03/16/11	3	ND	ND	7.3	ND	ND	4.5	1.2 J	ND	--	ND
	ug/L	09/21/11	3	ND	8.1	8.4	ND	1.4 J	4.6	1.2 J	ND	--	ND
	ug/L	03/21/12	3	ND	ND	8.5	ND	5.5	3.6	1.7 J	ND	ND	ND
	ug/L	09/20/12	3	ND	ND	7.8	ND	1.7 J	1.8 J	ND	ND	--	ND
	ug/L	03/20/13	3	ND	ND	10	1.0 J	1.2 J	5.2	2.4 J	ND	ND	ND
	ug/L	09/18/13	3	ND	4.8	8.0	0.43 J	4.1	5.2	1.8 J	ND	--	ND
Chloroethane	ug/L	12/05/94	10	ND	ND	ND	ND	--	--	--	--	ND	--
SWS GPS = 3000 ug/L	ug/L	02/14/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	10	ND	2	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	10	ND	0.85 J	ND	0.69 J	11.1	ND	--	--	ND	ND
	ug/L	04/03/08	10	ND	ND	ND	0.87 J	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	10	ND	ND	ND	0.68 J	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	10	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells				Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8		AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
1,2-Dichlorobenzene	ug/L	12/05/94	5	ND	ND	ND	ND		--	--	--	--	ND	--
NC 2L = 20 ug/L	ug/L	02/14/95	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/03/95	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/30/95	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/08/96	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/24/96	5	ND	--	ND	ND		--	--	--	--	ND	--
	ug/L	04/15/97	5	ND	--	ND	ND		--	--	--	--	ND	--
	ug/L	10/29/97	5	ND	1	ND	ND		--	--	--	--	ND	--
	ug/L	05/14/98	5	ND	ND	14	ND		--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/29/99	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/20/00	5	ND	ND	ND	ND		ND	--	--	--	ND	--
	ug/L	11/07/00	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	02/27/01	5	--	--	--	--		--	--	--	--	--	--
	ug/L	05/15/01	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/16/01	5	ND	ND	ND	ND		--	ND	--	--	ND	--
	ug/L	04/24/02	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/01/02	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/09/03	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/20/03	5	ND	7	ND	6		ND	ND	--	--	ND	--
	ug/L	03/24/04	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/27/04	5	ND	6	ND	ND		ND	ND	--	--	ND	--
	ug/L	05/25/05	5	ND	ND	ND	--		ND	ND	--	--	ND	--
	ug/L	10/04/05	5	ND	12	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	10	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	10	ND	ND		ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	0.39 J	ND	0.97 J		ND	0.62 J	--	--	ND	ND
	ug/L	10/02/07	5	ND	2.52 J	0.56 J	0.94 J		0.44 J	0.67 J	--	--	ND	ND
	ug/L	04/03/08	5	ND	ND	0.46 J	1.35 J		0.23 J	0.65 J	0.27 J	ND	ND	ND
	ug/L	10/29/08	5	ND	1.98 J	0.45 J	1.12 J		0.52 J	0.63 J	0.29 J	ND	ND	ND
	ug/L	03/24/09	5	ND	ND	ND	0.44 J		ND	0.53 J	ND	ND	ND	ND
	ug/L	09/22/09	5	ND	ND	ND	0.66 J		ND	0.46 J	ND	ND	--	ND
	ug/L	03/22/10	5	ND	Dry	0.49 J	ND		ND	0.64 J	ND	ND	--	ND
	ug/L	09/23/10	5	ND	3.6 J	0.52 J	ND		ND	0.64 J	ND	ND	--	ND
	ug/L	03/16/11	5	ND	ND	ND	ND		ND	0.71 J	ND	ND	--	ND
	ug/L	09/21/11	5	ND	5.8	0.58 J	ND		ND	0.65 J	ND	ND	--	ND
	ug/L	03/21/12	5	ND	ND	0.56 J	ND		ND	0.62 J	ND	ND	ND	ND
	ug/L	09/20/12	5	ND	ND	0.50 J	0.52 J		ND	0.51 J	ND	ND	--	ND
	ug/L	03/20/13	5	ND	ND	0.76 J	1.3 J		ND	0.90 J	ND	ND	ND	ND
	ug/L	09/18/13	5	ND	1.3 J	0.83 J	ND		ND	0.65 J	ND	ND	--	ND
1,4-Dichlorobenzene	ug/L	12/05/94	5	ND	ND	ND	ND		--	--	--	--	ND	--
NC 2L = 6 ug/L	ug/L	02/14/95	5	ND	--	ND	ND		--	--	--	--	ND	--
	ug/L	04/03/95	5	ND	11	ND	ND		--	--	--	--	ND	--
	ug/L	10/30/95	5	ND	10	5	ND		--	--	--	--	ND	--
	ug/L	04/08/96	5	ND	--	9	ND		--	--	--	--	ND	--
	ug/L	10/24/96	5	ND	--	8	ND		--	--	--	--	ND	--
	ug/L	04/15/97	5	ND	--	24	ND		--	--	--	--	ND	--
	ug/L	10/29/97	5	ND	9	10	ND		--	--	--	--	ND	--
	ug/L	05/14/98	5	ND	18	22	ND		--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	18	ND	ND		--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	18	10	ND		--	--	--	--	ND	--
	ug/L	10/29/99	5	ND	ND	7	ND		--	--	--	--	ND	--
	ug/L	04/20/00	5	ND	5	18	ND		ND	--	--	--	ND	--
	ug/L	11/07/00	5	ND	ND	8	ND		--	--	--	--	ND	--
	ug/L	02/27/01	5	--	--	--	--		--	--	--	--	--	--
	ug/L	05/15/01	5	ND	14	6	ND		--	--	--	--	ND	--
	ug/L	10/16/01	5	ND	12	7	ND		--	ND	--	--	ND	--
	ug/L	04/24/02	5	ND	18	8	ND		ND	ND	--	--	ND	--
	ug/L	10/01/02	5	ND	14	9	ND		ND	ND	--	--	ND	--
	ug/L	04/09/03	5	ND	ND	12	ND		ND	ND	--	--	ND	--
	ug/L	10/20/03	5	ND	23	13	ND		ND	ND	--	--	ND	--
	ug/L	03/24/04	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/27/04	5	ND	20	19	ND		ND	ND	--	--	ND	--
	ug/L	05/25/05	5	ND	ND	17.8	--		ND	ND	--	--	ND	--
	ug/L	10/04/05	5	ND	25.4	17	ND		ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	24.3	16.4	ND		ND	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	18.5	14.6	ND		ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	1.67 J	17.1	2.79 J		1.37	2.86 J	--	--	ND	ND
	ug/L	10/02/07	5	ND	18.7	12.0	3.64 J		3.24 J	2.99 J	--	--	ND	ND
	ug/L	04/03/08	5	ND	0.38 J	8.37	4.50 J		1.57 J	2.77 J	2.11 J	ND	ND	ND
	ug/L	10/29/08	5	ND	23.9	7.81	4.44 J		4.11 J	2.96 J	1.66 J	ND	ND	ND
	ug/L	03/24/09	1	ND	ND	6.4	1.3		0.57 J	2.6	1.4	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	6.8	2.4		1.4	2.1	1.0	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	9.8	ND		ND	3.2	1.2	ND	--	ND
	ug/L	09/23/10	1	ND	15	8.8	ND		ND	3.4	0.91 J	ND	--	ND
	ug/L	03/16/11	1	ND	ND	10	ND		ND	3.2	1.3	ND	--	ND
	ug/L	09/21/11	1	ND	14	12	ND		0.93 J	4.2	1.2	ND	--	ND
	ug/L	03/21/12	1	ND	5.4 J	12	0.49 J		2.9	3.7	1.4	ND	ND	ND
	ug/L	09/20/12	1	ND	0.77 J	11	1.0		2.0	3.8	1.2	ND	--	ND
	ug/L	03/20/13	1	ND	ND	14	3.8		ND	5.0	2.2	ND	ND	ND
	ug/L	09/18/13	1	ND	6.0	13	1.2		0.73 J	4.1	1.4	ND	--	ND
Dichlorodifluoromethane	ug/L	12/05/94	5	ND	ND	ND	ND		--	--	--	--	ND	--
NC 2L = 1000 ug/L	ug/L	02/14/95	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/03/95	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/30/95	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/08/96	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/24/96	5	ND	--	ND	ND		--	--	--	--	ND	--
	ug/L	04/15/97	5	ND	--	ND	ND		--	--	--	--	ND	--
	ug/L	10/29/97	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	05/14/98	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/29/99	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/20/00	5	ND	ND	ND	ND		ND	--	--	--	ND	--
	ug/L	11/07/00	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--		--	--	--	--	--	--
	ug/L	05/15/01	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/16/01	5	ND	ND	ND	ND		--	ND	--	--	ND	--
	ug/L	04/24/02	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/01/02	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/09/03	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/20/03	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	03/24/04	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/27/04	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	05/25/05	5	ND	ND	ND	--		ND	ND	--	--	--	--
	ug/L	10/04/05	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	ND	ND	ND		ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	ND	ND	ND		ND	ND	--	--	ND	ND
	ug/L	10/02/07	5	ND	ND	ND	ND		ND	ND	--	--	ND	ND
	ug/L	04/03/08	5	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	5	ND	ND	ND	0.65 J		ND	ND	ND	ND	0.45 J	ND
	ug/L	03/24/09	5	ND	ND	ND	ND		ND	0.55 J	0.86 J	ND	ND	ND
	ug/L	09/22/09	--	--	--	--	--		--	--	--	--	--	--
	ug/L	03/22/10	5	ND	Dry	ND	ND		--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--		--	--	--	--	--	--
	ug/L	03/16/11	5	ND	ND	ND	ND		--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--		--	--	--	--	--	--
	ug/L	03/21/12	5	ND	ND	ND	ND		--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--		--	--	--	--	--	--
	ug/L	03/20/13	5	ND	ND	ND	ND		--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--		--	--	--	--	--	--

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells				Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8		AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
1,1-Dichloroethane	ug/L	12/05/94	5	ND	ND	ND	ND		--	--	--	--	ND	--
NC 2L = 6 ug/L	ug/L	02/14/95	5	ND	ND	9	ND		--	--	--	--	ND	--
	ug/L	04/03/95	5	ND	--	7	ND		--	--	--	--	--	--
	ug/L	10/30/95	5	ND	ND	10	ND		--	--	--	--	ND	--
	ug/L	04/08/96	5	ND	ND	6	ND		--	--	--	--	ND	--
	ug/L	10/24/96	5	ND	--	8	ND		--	--	--	--	ND	--
	ug/L	04/15/97	5	ND	--	ND	ND		--	--	--	--	ND	--
	ug/L	10/29/97	5	ND	1	7	ND		--	--	--	--	1	--
	ug/L	05/14/98	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	ND	6	ND		--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	ND	5	6		--	--	--	--	ND	--
	ug/L	10/29/99	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/20/00	5	ND	ND	ND	5		ND	--	--	--	ND	--
	ug/L	11/07/00	5	ND	ND	ND	6		--	--	--	--	ND	--
	ug/L	02/27/01	5	--	--	--	--		--	--	--	--	--	--
	ug/L	05/15/01	5	ND	ND	ND	14		--	--	--	--	ND	--
	ug/L	10/16/01	5	ND	ND	ND	11		--	ND	--	--	ND	--
	ug/L	04/24/02	5	ND	ND	ND	25		ND	ND	--	--	ND	--
	ug/L	10/01/02	5	ND	ND	ND	17		ND	ND	--	--	ND	--
	ug/L	04/09/03	5	ND	ND	ND	24		ND	ND	--	--	ND	--
	ug/L	10/20/03	5	ND	ND	ND	18		ND	ND	--	--	ND	--
	ug/L	03/24/04	5	ND	ND	ND	10		ND	ND	--	--	ND	--
	ug/L	10/27/04	5	ND	ND	ND	13		ND	ND	--	--	ND	--
	ug/L	05/25/05	5	ND	ND	ND	--		ND	ND	--	--	ND	--
	ug/L	10/04/05	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	ND	ND	6		ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	ND	1.69	7.8		ND	1.31	--	--	ND	ND
	ug/L	10/02/07	5	ND	0.45 J	1.66 J	9.7		0.1 J	1.27 J	--	--	ND	ND
	ug/L	04/03/08	5	ND	ND	1.72 J	13.1		ND	1.36 J	0.98 J	ND	ND	ND
	ug/L	10/29/08	5	ND	0.40 J	1.32 J	13.5		ND	1.36 J	1.33 J	ND	0.11 J	ND
	ug/L	03/24/09	5	ND	ND	0.83 J	3.6 J		ND	1.2 J	1.1 J	ND	ND	ND
	ug/L	09/22/09	5	ND	ND	0.75 J	8.9		ND	1.0 J	1.3 J	ND	--	ND
	ug/L	03/22/10	5	ND	Dry	0.64 J	ND		ND	0.76 J	0.90 J	ND	--	ND
	ug/L	09/23/10	5	ND	ND	0.64 J	ND		ND	0.87 J	0.84 J	ND	--	ND
	ug/L	03/16/11	5	ND	ND	0.56 J	ND		ND	0.91 J	1.0 J	ND	--	ND
	ug/L	09/21/11	5	ND	ND	0.74 J	1.7 J		ND	1.1 J	1.4 J	ND	--	ND
	ug/L	03/21/12	5	ND	ND	0.63 J	0.94 J		ND	0.74 J	1.1 J	ND	ND	ND
	ug/L	09/20/12	5	ND	ND	0.49 J	2.5 J		ND	1.0 J	1.3 J	ND	--	ND
	ug/L	03/20/13	5	ND	ND	0.71 J	6.9		ND	1.2 J	1.6 J	ND	ND	ND
	ug/L	09/18/13	5	ND	ND	ND	1.7 J		ND	0.71 J	1.0 J	ND	--	ND
1,2-Dichloroethane	ug/L	12/05/94	5	ND	ND	ND	ND		--	--	--	--	ND	--
NC 2L = 0.4 ug/L	ug/L	02/14/95	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/03/95	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/30/95	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/08/96	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/24/96	5	ND	--	ND	ND		--	--	--	--	ND	--
	ug/L	04/15/97	5	ND	--	ND	ND		--	--	--	--	ND	--
	ug/L	10/29/97	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	05/14/98	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/29/99	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/20/00	5	ND	ND	ND	ND		ND	--	--	--	ND	--
	ug/L	11/07/00	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	02/27/01	5	--	--	--	--		--	--	--	--	--	--
	ug/L	05/15/01	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/16/01	5	ND	ND	ND	ND		--	ND	--	--	ND	--
	ug/L	04/24/02	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/01/02	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/09/03	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/20/03	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	03/24/04	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/27/04	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	05/25/05	5	ND	ND	ND	--		ND	ND	--	--	ND	--
	ug/L	10/04/05	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	ND	ND	ND		ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	ND	ND	ND		ND	ND	--	--	ND	ND
	ug/L	10/02/07	3	ND	0.45 J	ND	ND		ND	ND	--	--	ND	ND
	ug/L	04/03/08	1	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	1	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	1	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	1	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
1,1-Dichloroethene	ug/L	12/05/94	5	ND	ND	ND	ND		--	--	--	--	ND	--
NC 2L = 7 ug/L	ug/L	02/14/95	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/03/95	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/30/95	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/08/96	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/24/96	5	ND	--	ND	ND		--	--	--	--	ND	--
	ug/L	04/15/97	5	ND	--	ND	ND		--	--	--	--	ND	--
	ug/L	10/29/97	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	05/14/98	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/29/99	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/20/00	5	ND	ND	ND	ND		ND	--	--	--	ND	--
	ug/L	11/07/00	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	02/27/01	5	--	--	--	--		--	--	--	--	--	--
	ug/L	05/15/01	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/16/01	5	ND	ND	ND	ND		--	ND	--	--	ND	--
	ug/L	04/24/02	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/01/02	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/09/03	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/20/03	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	03/24/04	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/27/04	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	05/25/05	5	ND	ND	ND	--		ND	ND	--	--	ND	--
	ug/L	10/04/05	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	ND	ND	ND		ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	ND	ND	ND		ND	ND	--	--	ND	ND
	ug/L	10/02/07	5	ND	ND	ND	0.33 J		ND	ND	--	--	ND	ND
	ug/L	04/03/08	5	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	5	ND	ND	ND	0.15 J		ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	5	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	5	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/22/10	5	ND	Dry	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	09/23/10	5	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/16/11	5	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	09/21/11	5	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/21/12	5	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	5	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/20/13	5	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	5	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
cis-1,2-Dichloroethene	ug/L	12/05/94	5	ND	--	24	11		--	--	--	--	ND	--
NC 2L = 70 ug/L	ug/L	02/14/95	5	ND	9	ND	8		--	--	--	--	ND	--
	ug/L	04/03/95	5	ND	7	17	ND		--	--	--	--	ND	--
	ug/L	10/30/95	5	ND	10	25	10		--	--	--	--	ND	--
	ug/L	04/08/96	5	ND	7	17	7		--	--	--	--	ND	--
	ug/L	10/24/96	5	ND	--	21	ND		--	--	--	--	ND	--
	ug/L	04/15/97	5	ND	--	14	15		--	--	--	--	ND	--
	ug/L	10/29/97	5	ND	4	20	3		--	--	--	--	6	--
	ug/L	05/14/98	5	ND	ND	14	ND		--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	ND	21	ND		--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	6	17	ND		--	--	--	--	12	--
	ug/L	10/29/99	5	ND	ND	17	ND		--	--	--	--	26	--
	ug/L	04/20/00	5	ND	ND	13	ND		ND	--	--	--	16	--
	ug/L	11/07/00	5	ND	ND	15	ND		--	--	--	--	12	--
	ug/L	02/27/01	5	--	--	--	--		--	--	--	--	--	--
	ug/L	05/15/01	5	ND	ND	14	7		--	--	--	--	8	--
	ug/L	10/16/01	5	ND	ND	13	ND		--	ND	--	--	10	--
	ug/L	04/24/02	5	ND	ND	15	11		ND	ND	--	--	6	--
	ug/L	10/01/02	5	ND	ND	12	7		ND	ND	--	--	ND	--
	ug/L	04/09/03	5	ND	ND	11	18		ND	ND	--	--	ND	--
	ug/L	10/20/03	5	ND	ND	11	22		ND	ND	--	--	ND	--
	ug/L	03/24/04	5	ND	ND	10	13		ND	ND	--	--	ND	--
	ug/L	10/27/04	5	ND	ND	10.5	26.2		ND	ND	--	--	ND	--
	ug/L	05/25/05	5	ND	ND	10.6	--		ND	ND	--	--	ND	--
	ug/L	10/04/05	5	ND	ND	12.1	12.8		ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	ND	12.8	12.3		ND	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	ND	14.2	15.7		ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	0.48 J	12.7	22.1		ND	2.3	--	--	ND	ND
	ug/L	10/02/07	5	ND	1.19 J	12.4 J	23.9 J		0.71 J	2.14 J	--	--	ND	ND
	ug/L	04/03/08	5	ND	0.05 J	12.2	30.6		0.35 J	2.25 J	1.85 J	ND	ND	ND
	ug/L	10/29/08	5	ND	0.2 J	9.8	28.9		0.27 J	2.27 J	2.36 J	ND	0.24 J	ND
	ug/L	03/24/09	5	ND	ND	4.9 J	7.4		ND	1.7 J	1.7 J	ND	ND	ND
	ug/L	09/22/09	5	ND	ND	6.1	19		ND	2.0 J	2.5 J	ND	--	ND
	ug/L	03/22/10	5	ND	Dry	7.0	0.66 J		ND	2.0 J	2.1 J	ND	--	ND
	ug/L	09/23/10	5	ND	ND	5.2	ND		ND	1.7 J	1.2 J	ND	--	ND
	ug/L	03/16/11	5	ND	ND	6.4	0.89 J		ND	2.6 J	2.0 J	ND	--	ND
	ug/L	09/21/11	5	ND	ND	5.6	2.9 J		ND	1.7 J	1.3 J	ND	--	ND
	ug/L	03/21/12	5	ND	ND	5.2	2.6 J		ND	1.5 J	1.6 J	ND	ND	ND
	ug/L	09/20/12	5	ND	ND	4.4 J	4.1 J		ND	1.4 J	1.2 J	ND	--	ND
	ug/L	03/20/13	5	ND	ND	5.6	13		ND	1.9 J	1.8 J	ND	ND	ND
	ug/L	09/18/13	5	ND	0.53 J	5.3	4.1 J		ND	1.4 J	1.5 J	ND	--	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
trans-1,2-Dichloroethene	ug/L	12/05/94	5	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 100 ug/L	ug/L	02/14/95	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	5	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	5	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	5	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	5	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	5	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	5	ND	ND	0.50 J	0.22 J	ND	ND	--	--	ND	ND
	ug/L	04/03/08	5	ND	ND	0.44 J	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	5	ND	ND	0.26 J	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	5	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
1,2-Dichloropropane	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 0.6 ug/L	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	1	ND	ND	1	ND	--	--	--	--	ND	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	1	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	1	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	1	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	1	ND	0.2 J	0.65 J	0.5 J	ND	0.17 J	--	--	ND	ND
	ug/L	04/03/08	1	ND	ND	ND	ND	ND	ND	0.12 J	ND	ND	ND
	ug/L	10/29/08	1	ND	ND	ND	0.5 J	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
Ethylbenzene	ug/L	12/05/94	1	ND	11	ND	ND	--	--	--	--	ND	--
NC 2L = 600 ug/L	ug/L	02/14/95	1	ND	14	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	1	ND	8	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	1	ND	10	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	1	ND	9	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	1	ND	3	ND	2	--	--	--	--	ND	--
	ug/L	05/14/98	1	ND	8	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	1	ND	11	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	1	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	1	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	1	ND	9	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	1	ND	22.4	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	1	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	1	ND	28	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	12.4	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	15.7	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	ND	0.96 J	ND	1.04	ND	ND	--	--	ND	ND
	ug/L	10/02/07	1	ND	3.46	ND	1.24 J	ND	ND	--	--	ND	ND
	ug/L	04/03/08	1	ND	ND	ND	1.37 J	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	1	ND	0.22 J	ND	1.62	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	ND	0.95 J	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1	ND	2.1	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	2.3	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	1	ND	0.79 J	ND	ND	ND	ND	ND	ND	--	ND
2-Hexanone	ug/L	12/05/94	50	ND	ND	ND	ND	--	--	--	--	ND	--
SWS GPS = 40 ug/L	ug/L	02/14/95	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	50	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	50	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	50	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	50	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	50	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	50	ND	55	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	50	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	50	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	50	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	50	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	50	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
Dibromomethane	ug/L	12/05/94	10	ND	ND	ND	ND	--	--	--	--	ND	--
SWS GPS = 70 ug/L	ug/L	02/14/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	10	ND	ND	ND	0.26 J	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	10	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
Methylene chloride	ug/L	12/05/94	10	ND	ND	ND	7	--	--	--	--	ND	--
NC 2L = 5 ug/L	ug/L	02/14/95	10	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/95	10	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	10	ND	ND	10	ND	--	--	--	--	ND	--
	ug/L	04/08/96	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	10	ND	--	9	ND	--	--	--	--	ND	--
	ug/L	04/15/97	10	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	10	ND	ND	ND	ND	--	--	--	--	1	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	ND	ND	ND	52	--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	38	--	ND	--	--	ND	--
	ug/L	04/24/02	10	ND	ND	ND	87	ND	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	ND	ND	44	ND	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	ND	ND	54	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	ND	ND	ND	27	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	ND	ND	30	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	ND	ND	42.1	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	ND	ND	13.4	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	ND	ND	13.9	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	ND	ND	15.1	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	ND	ND	0.35 J	23.3	ND	0.24 J	--	--	ND	ND
	ug/L	10/02/07	10	ND	0.57 B	ND	22.0	ND	ND	--	--	ND	0.41 J
	ug/L	04/03/08	10	ND	ND	0.34 B	34.2	ND	ND	ND	3.10 J	ND	0.42 J
	ug/L	10/29/08	10	ND	ND	0.27 J	33.7	ND	0.42 J	0.92 J	ND	0.75 J	ND
	ug/L	03/24/09	1	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	ND	21	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	ND	ND	3.4	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	2.4	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	ND	11	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	1	ND	ND	ND	1.0	ND	ND	ND	ND	--	ND
2-Butanone	ug/L	12/05/94	100	ND	10	ND	ND	--	--	--	--	ND	--
NC 2L = 4000 ug/L	ug/L	02/14/95	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	100	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	100	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	100	ND	46	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	100	ND	220	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	100	ND	670	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	100	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	100	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	100	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	100	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	100	ND	ND	1.68 J	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	100	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
4-Methyl-2-pentanone	ug/L	12/05/94	50	ND	16	ND	ND	--	--	--	--	ND	--
SWS GPS = 560 ug/L	ug/L	02/14/95	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	50	ND	20	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	50	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	50	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	100	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	100	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	100	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	100	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	100	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND

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Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells				Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8		AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
Naphthalene	ug/L	12/05/94	5	--	--	--	--		--	--	--	--	--	--
NC 2L = 6 ug/L	ug/L	02/14/95	5	--	--	--	--		--	--	--	--	--	--
	ug/L	04/03/95	5	--	--	--	--		--	--	--	--	--	--
	ug/L	10/30/95	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/08/96	5	--	--	--	--		--	--	--	--	--	--
	ug/L	10/24/96	5	ND	--	ND	ND		--	--	--	--	ND	--
	ug/L	04/15/97	5	--	2	--	--		--	--	--	--	--	--
	ug/L	10/29/97	5	ND	ND	2	ND		--	--	--	--	ND	--
	ug/L	05/14/98	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	9	ND	ND		--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/29/99	10	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/20/00	10	ND	ND	ND	ND		ND	--	--	--	ND	--
	ug/L	11/07/00	10	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	02/27/01	10	--	--	--	--		--	--	--	--	--	--
	ug/L	05/15/01	10	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/16/01	10	ND	ND	ND	ND		--	ND	--	--	ND	--
	ug/L	04/24/02	10	ND	7	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/01/02	10	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/09/03	10	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/20/03	10	ND	7	ND	ND		ND	ND	--	--	ND	--
	ug/L	03/24/04	10	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/27/04	10	ND	6	ND	ND		ND	ND	--	--	ND	--
	ug/L	05/25/05	10	ND	ND	ND	--		ND	ND	--	--	ND	--
	ug/L	10/04/05	10	ND	8	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/25/06	10	ND	6	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/04/06	10	ND	6	ND	ND		ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	ND	ND	0.66 J	0.57 J		ND	ND	--	--	ND	ND
	ug/L	10/02/07	10	ND	3.04	1.49	0.75		ND	ND	--	--	ND	ND
	ug/L	04/03/08	10	ND	ND	ND	0.76 J		ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	10	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	10	ND	ND	ND	0.55 J		ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	--	--	--	--	--		--	--	--	--	--	--
	ug/L	03/22/10	10	ND	Dry	ND	ND		--	--	--	--	--	ND
	ug/L	09/23/10	10	--	--	--	--		--	--	--	--	--	--
	ug/L	03/16/11	10	ND	ND	ND	ND		--	--	--	--	--	ND
	ug/L	09/21/11	10	--	--	--	--		--	--	--	--	--	--
	ug/L	03/21/12	10	ND	ND	ND	ND		--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--		--	--	--	--	--	--
	ug/L	03/20/13	10	ND	ND	ND	ND		--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--		--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	12/05/94	1	ND	ND	6.6	9		--	--	--	--	ND	--
NC 2L = 0.7 ug/L	ug/L	02/14/95	1	ND	ND	7	7		--	--	--	--	6	--
	ug/L	04/03/95	1	ND	ND	6.3	ND		--	--	--	--	6	--
	ug/L	10/30/95	1	ND	ND	ND	ND		--	--	--	--	5	--
	ug/L	04/08/96	1	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/24/96	1	ND	--	ND	ND		--	--	--	--	9	--
	ug/L	04/15/97	1	ND	--	ND	15		--	--	--	--	16	--
	ug/L	10/29/97	1	ND	ND	4	4		--	--	--	--	16	--
	ug/L	05/14/98	1	ND	ND	ND	19		--	--	--	--	13	--
	ug/L	10/11/98	1	ND	ND	ND	15		--	--	--	--	15	--
	ug/L	06/04/99	1	ND	ND	ND	44		--	--	--	--	27	--
	ug/L	10/29/99	1	ND	ND	ND	27		--	--	--	--	31	--
	ug/L	04/20/00	1	ND	ND	ND	69		ND	--	--	--	30	--
	ug/L	11/07/00	1	ND	ND	ND	54		--	--	--	--	36	--
	ug/L	02/27/01	1	--	--	--	--		--	--	--	--	--	--
	ug/L	05/15/01	1	ND	ND	ND	110		--	--	--	--	24	--
	ug/L	10/16/01	1	ND	ND	ND	44		--	ND	--	--	11	--
	ug/L	04/24/02	1	ND	ND	ND	170		ND	ND	--	--	24	--
	ug/L	10/01/02	1	ND	ND	ND	110		ND	ND	--	--	20	--
	ug/L	04/09/03	1	ND	ND	ND	120		ND	ND	--	--	11	--
	ug/L	10/20/03	1	ND	ND	ND	61		ND	ND	--	--	8	--
	ug/L	03/24/04	1	ND	ND	ND	32		ND	ND	--	--	8.12	--
	ug/L	10/27/04	1	ND	ND	ND	52		ND	ND	--	--	6.96	--
	ug/L	05/25/05	1	ND	ND	ND	--		ND	ND	--	--	ND	--
	ug/L	10/04/05	1	ND	ND	ND	16.2		ND	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	ND	ND	10		ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	ND	ND	21		ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	ND	ND	ND	28.8		ND	ND	--	--	2.17	ND
	ug/L	10/02/07	1	ND	ND	ND	42.1		ND	ND	--	--	1.79 J	ND
	ug/L	04/03/08	1	ND	ND	ND	47.9		ND	ND	ND	ND	2.32 J	ND
	ug/L	10/29/08	1	ND	ND	ND	48.5		ND	ND	ND	ND	1.98	ND
	ug/L	03/24/09	1	ND	ND	ND	8.7		ND	ND	ND	ND	2.7	ND
	ug/L	09/22/09	1	ND	ND	ND	25		ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	0.80 J		ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	ND	ND	2.8		ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	ND	1.7		ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	3.9		ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	ND	11		ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	1	ND	ND	ND	2.8		ND	ND	ND	ND	--	ND
Toluene	ug/L	12/05/94	1	ND	5	ND	ND		--	--	--	--	ND	--
NC 2L = 600 ug/L	ug/L	02/14/95	1	ND	7	ND	ND		--	--	--	--	ND	--
	ug/L	04/03/95	1	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/30/95	1	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/08/96	1	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/24/96	1	ND	--	ND	9		--	--	--	--	ND	--
	ug/L	04/15/97	1	ND	--	ND	ND		--	--	--	--	ND	--
	ug/L	10/29/97	1	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	05/14/98	1	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	10/11/98	1	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	06/04/99	1	ND	150	ND	ND		--	--	--	--	ND	--
	ug/L	10/29/99	1	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	04/20/00	1	ND	59	ND	ND		ND	--	--	--	ND	--
	ug/L	11/07/00	1	ND	ND	ND	ND		--	--	--	--	ND	--
	ug/L	02/27/01	1	--	--	--	--		--	--	--	--	--	--
	ug/L	05/15/01	1	ND	11	ND	ND		--	--	--	--	ND	--
	ug/L	10/16/01	1	ND	ND	ND	ND		--	ND	--	--	ND	--
	ug/L	04/24/02	1	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/01/02	1	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/09/03	1	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/20/03	1	ND	5	ND	ND		ND	ND	--	--	ND	--
	ug/L	03/24/04	1	ND	878	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/27/04	1	ND	1220	ND	ND		ND	ND	--	--	ND	--
	ug/L	05/25/05	1	ND	132	ND	--		ND	ND	--	--	ND	--
	ug/L	10/04/05	1	ND	16	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	12	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	ND	ND	ND		ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	ND	0.3 J	ND	1.05		ND	ND	--	--	ND	ND
	ug/L	10/02/07	1	ND	1.08 J	0.11 J	1.62 J		ND	ND	--	--	ND	ND
	ug/L	04/03/08	1	ND	0.11 B	ND	1.30 B		ND	ND	ND	ND	ND	0.60 J
	ug/L	10/29/08	1	ND	4.33	ND	0.99 J		ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	1	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	0.98 J	1.6	0.48 J	0.96 J		0.42 J	0.93 J	0.63 J	1.3	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1	ND	3.1	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	2.8	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	1	ND	3.8	ND	ND		ND	ND	ND	ND	--	ND
1,1,1-Trichloroethane	ug/L	12/05/94	1	ND	ND	--	ND		--	--	--	--	--	--
NC 2L = 200 ug/L	ug/L	02/14/95	1	ND	ND	--	ND		--	--	--	--	--	--
	ug/L	04/03/95	1	ND	ND	--	ND		--	--	--	--	--	--
	ug/L	10/30/95	1	ND	ND	--	ND		--	--	--	--	--	--
	ug/L	04/08/96	1	ND	ND	--	ND		--	--	--	--	--	--
	ug/L	10/24/96	1	ND	--	--	ND		--	--	--	--	--	--
	ug/L	04/15/97	1	ND	--	--	ND		--	--	--	--	--	--
	ug/L	10/29/97	1	ND	ND	--	ND		--	--	--	--	--	--
	ug/L	05/14/98	1	ND	ND	--	ND		--	--	--	--	--	--
	ug/L	10/11/98	1	ND	ND	--	ND		--	--	--	--	--	--
	ug/L	06/04/99	1	ND	ND	--	ND		--	--	--	--	--	--
	ug/L	10/29/99	1	ND	ND	--	ND		--	--	--	--	--	--
	ug/L	04/20/00	1	ND	ND	--	ND		--	--	--	--	--	--
	ug/L	11/07/00	1	ND	ND	--	ND		--	--	--	--	--	--
	ug/L	02/27/01	1	--	--	--	--		--	--	--	--	--	--
	ug/L	05/15/01	1	ND	ND	--	6		--	--	--	--	--	--
	ug/L	10/16/01	1	ND	ND	--	6		--	--	--	--	--	--
	ug/L	04/24/02	1	ND	ND	--	9		--	--	--	--	--	--
	ug/L	10/01/02	1	ND	ND	--	5		--	--	--	--	--	--
	ug/L	04/09/03	1	ND	ND	--	ND		--	--	--	--	--	--
	ug/L	10/20/03	1	ND	ND	--	ND		--	--	--	--	--	--
	ug/L	03/24/04	1	ND	ND	--	ND		--	--	--	--	--	--
	ug/L	10/27/04	1	ND	ND	--	ND		--	--	--	--	--	--
	ug/L	05/25/05	1	ND	ND	--	--		--	--	--	--	ND	--
	ug/L	10/04/05	1	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	ND	ND	ND		ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	ND	ND	ND		ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	ND	ND	ND	ND		ND	ND	--	--	ND	ND
	ug/L	10/02/07	1	ND	ND	ND	0.18 J		ND	ND	--	--	ND	ND
	ug/L	04/03/08	1	ND	ND	ND	0.23 J		ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	1	ND	ND	ND	0.13 J		ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	1	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND		ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	1	ND	ND	ND	ND		ND	ND	ND	ND	--	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
Trichloroethene	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 3 ug/L	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	1	ND	ND	2	ND	--	--	--	--	2	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	1	ND	ND	ND	6	ND	--	--	--	ND	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	1	ND	ND	ND	14	--	--	--	--	ND	--
	ug/L	10/16/01	1	ND	ND	ND	8	--	--	--	--	ND	--
	ug/L	04/24/02	1	ND	ND	ND	20	ND	--	--	--	ND	--
	ug/L	10/01/02	1	ND	ND	ND	13	ND	--	--	--	ND	--
	ug/L	04/09/03	1	ND	ND	ND	27	ND	--	--	--	ND	--
	ug/L	10/20/03	1	ND	ND	ND	26	ND	--	--	--	ND	--
	ug/L	03/24/04	1	ND	ND	ND	13	ND	--	--	--	ND	--
	ug/L	10/27/04	1	ND	ND	ND	17.5	ND	--	--	--	ND	--
	ug/L	05/25/05	1	ND	ND	ND	--	ND	--	--	--	ND	--
	ug/L	10/04/05	1	ND	ND	ND	5	ND	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	ND	ND	7	ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	ND	ND	0.48 J	12	ND	0.31 J	--	--	ND	ND
	ug/L	10/02/07	1	ND	ND	0.41 J	15.5	ND	0.3 J	--	--	ND	ND
	ug/L	04/03/08	1	ND	ND	0.47 J	18.1	ND	0.28 J	0.30 J	ND	ND	ND
	ug/L	10/29/08	1	ND	ND	0.32 J	18.2	ND	0.33 J	0.45 J	ND	0.16 J	ND
	ug/L	03/24/09	1	ND	ND	ND	3.1	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	ND	9.5	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	ND	ND	ND	0.44 J	ND	--	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	ND	ND	1.1	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	ND	0.70 J	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	1.6	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	ND	3.9	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	1	ND	ND	ND	1.3	ND	ND	ND	ND	--	ND
1,1,2-Trichloroethane	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--	--	ND	--
SWS GPS = 0.6 ug/L	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	1	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	1	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	1	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	1	ND	ND	ND	2.77	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
Trichlorofluoromethane	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 2000 ug/L	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	1	ND	ND	ND	13	--	--	--	--	ND	--
	ug/L	10/29/99	1	ND	ND	ND	7	--	--	--	--	ND	--
	ug/L	04/20/00	1	ND	ND	ND	10	ND	--	--	--	ND	--
	ug/L	11/07/00	1	ND	ND	ND	15	--	--	--	--	ND	--
	ug/L	02/27/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	1	ND	ND	ND	14	--	--	--	--	ND	--
	ug/L	10/16/01	1	ND	ND	ND	19	--	ND	--	--	ND	--
	ug/L	04/24/02	1	ND	ND	ND	13	ND	ND	--	--	ND	--
	ug/L	10/01/02	1	ND	ND	ND	15	ND	ND	--	--	ND	--
	ug/L	04/09/03	1	ND	ND	ND	8	ND	ND	--	--	ND	--
	ug/L	10/20/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	1	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	1	ND	ND	ND	ND	ND	ND	--	--	2.23 J	ND
	ug/L	04/03/08	1	ND	ND	ND	ND	ND	ND	ND	ND	1.63 J	ND
	ug/L	10/29/08	1	ND	ND	ND	ND	ND	ND	ND	ND	4.43	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	ND	ND	ND	ND	2.2	ND
	ug/L	09/22/09	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
Vinyl acetate	ug/L	03/24/09	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SWS GPS = 88 ug/L	ug/L	09/22/09	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	50	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	50	ND	ND	ND	3.2 J	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
Vinyl chloride	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 0.03 ug/L	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	1	ND	2	5	2	--	--	--	--	1	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	1	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	1	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	1	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	1	ND	0.43 J	2.35	ND	ND	0.94 J	--	--	ND	ND
	ug/L	10/02/07	1	ND	1.03 J	2.68 J	0.31 J	ND	0.89 J	--	--	ND	ND
	ug/L	04/03/08	1	ND	ND	2.94 J	ND	ND	0.98 J	0.59 J	ND	ND	ND
	ug/L	10/29/08	1	ND	0.25 J	2.36	0.49 J	ND	0.82 J	0.57 J	ND	ND	ND
	ug/L	03/24/09	1	ND	ND	1.5	ND	ND	0.60 J	0.53 J	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	1.4	ND	ND	0.67 J	ND	ND	--	ND
	ug/L	03/22/10	1	ND	Dry	1.2	ND	ND	0.60 J	ND	ND	--	ND
	ug/L	09/23/10	1	ND	ND	1.2	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1	ND	ND	1.3	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1	ND	ND	1.5	ND	ND	0.76 J	ND	ND	--	ND
	ug/L	03/21/12	1	ND	ND	0.88 J	ND	ND	ND	0.55 J	ND	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	ND	0.57 J	0.61 J	ND	--	ND
	ug/L	03/20/13	1	ND	ND	1.0	0.77 J	ND	0.50 J	0.49 J	ND	ND	ND
	ug/L	09/18/13	1	ND	ND	0.81 J	ND	ND	0.48 J	0.48 J	ND	--	ND
Xylenes (Total)	ug/L	12/05/94	5	ND	70	ND	130		--	--	--	ND	--
NC 2L = 500 ug/L	ug/L	02/14/95	5	ND	68	ND	ND	--	--	--	--	ND	--
	ug/L	04/03/95	5	ND	45	ND	47	--	--	--	--	ND	--
	ug/L	10/30/95	5	ND	40	ND	40	--	--	--	--	ND	--
	ug/L	04/08/96	5	ND	46	ND	35	--	--	--	--	ND	--
	ug/L	10/24/96	5	ND	--	ND	19	--	--	--	--	ND	--
	ug/L	04/15/97	5	ND	--	ND	44	--	--	--	--	ND	--
	ug/L	10/29/97	5	ND	12	1	3	--	--	--	--	ND	--
	ug/L	05/14/98	5	ND	65	ND	17	--	--	--	--	ND	--
	ug/L	10/11/98	5	ND	ND	ND	5	--	--	--	--	ND	--
	ug/L	06/04/99	5	ND	55	ND	9	--	--	--	--	ND	--
	ug/L	10/29/99	5	ND	8	ND	6	--	--	--	--	ND	--
	ug/L	04/20/00	5	ND	10	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	5	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	5	ND	27	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	5	ND	17	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	5	ND	40	ND	14	ND	ND	--	--	ND	--
	ug/L	10/01/02	5	ND	8	ND	9	ND	ND	--	--	ND	--
	ug/L	04/09/03	5	ND	ND	ND	15	ND	ND	--	--	ND	--
	ug/L	10/20/03	5	ND	27	ND	14	ND	ND	--	--	ND	--
	ug/L	03/24/04	5	ND	48	ND	10	ND	ND	--	--	ND	--
	ug/L	10/27/04	5	ND	70	ND	18	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	ND	55	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	ND	81	ND	12	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	ND	48	ND	12	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	ND	59	ND	14	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	ND	2.74	ND	29.5	ND	ND	--	--	ND	ND
	ug/L	10/02/07	5	ND	4.54	ND	34	ND	ND	--	--	ND	ND
	ug/L	04/03/08	5	ND	ND	ND	40.6	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	5	ND	0.86 J	ND	39.8	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	5	ND	ND	ND	8.3	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	5	ND	ND	ND	19	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	5	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	5	ND	5.4	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	5	ND	3.6 J	ND	2.5 J	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	5	ND	ND	ND	0.98 J	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	5	ND	ND	ND	2.2 J	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	5	ND	ND	ND	6.3	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	5	ND	0.81 J	ND	1.8 J	ND	ND	ND	ND	--	ND
2-Methylphenol	ug/L	12/05/94	--	--	--	--	--	--	--	--	--	--	--
SWS GPS = 400 ug/L	ug/L	02/14/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/08/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/29/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/06/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	ND	120	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	--	ND	170	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	--	ND	200	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	--	ND	52	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	--	ND	14	ND	ND	ND	--	--	--	ND	--
	ug/L	10/16/01	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/24/02	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	--	ND	38	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	--	ND	2440	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	--	ND	2240	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	--	ND	278	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/05	--	ND	28.6	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	--	ND	82.8	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/21/07	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/02/07	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/03/08	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/30/08	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	ug/L	03/24/09	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	10	ND	Dry	ND	ND	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	
Diethylphthalate	ug/L	12/05/94	--	--	--	--	--	--	--	--	--	--	--
NC 2L = 6000 ug/L	ug/L	02/14/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/06/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	02/27/01	6	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	10/16/01	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/24/02	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	--	ND	19	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	--	ND	35.9	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	--	ND	140	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/05	--	ND	548	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	--	ND	101	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	--	ND	86.6	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/21/07	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/02/07	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/03/08	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/30/08	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	ug/L	03/24/09	10	ND	ND	ND	ND	ND	ND	1.5 J	ND	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	10	ND	Dry	ND	ND	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	6000	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	6000	ND	3.1 B	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--

Golder Associates

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
2,4-dimethylphenol	ug/L	12/05/94	--	--	--	--	--	--	--	--	--	--	--
NC 2L = 100 ug/L	ug/L	02/14/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/06/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	10/16/01	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/24/02	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	--	ND	19	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	--	ND	35.9	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	--	ND	140	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/05	--	ND	548	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	--	ND	101	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	--	ND	86.6	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/21/07	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/02/07	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/03/08	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/30/08	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	ug/L	03/24/09	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	10	ND	Dry	ND	ND	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	10	ND	4.0 J	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--
Di-n-octylphthalate	ug/L	12/05/94	--	--	--	--	--	--	--	--	--	--	--
NC 2L = 100 ug/L	ug/L	02/14/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/06/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	10/16/01	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/24/02	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/05	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/21/07	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/02/07	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/03/08	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/30/08	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	ug/L	03/24/09	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	10	ND	Dry	ND	ND	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/21/12	10	ND	6.6 J	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	-	--	--	--	--	--
	ug/L	03/20/13	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--
Phenol	ug/L	12/05/94	--	--	--	--	--	--	--	--	--	--	--
NC 2L = 30 ug/L	ug/L	02/14/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/29/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/06/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	--	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	ND	240	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	--	ND	1400	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	--	ND	3100	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	--	ND	190	ND	ND	15	--	--	--	ND	--
	ug/L	11/07/00	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	10/16/01	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/24/02	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	--	ND	13200	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	--	ND	16400	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	--	ND	105	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/05	--	ND	26.8	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/21/07	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/02/07	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/03/08	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/30/08	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	ug/L	03/24/09	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	10	ND	Dry	ND	ND	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--
3 &4-methylphenol	ug/L	12/05/94	--	--	--	--	--	--	--	--	--	--	--
NC 2L Standard = 400/40 ug/L	ug/L	02/14/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/08/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/29/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/06/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	--	ND	140	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	--	ND	160	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	--	ND	260	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	--	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	--	ND	57	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	--	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	10/16/01	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/24/02	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	--	ND	27	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	--	ND	1930	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	--	ND	2880	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	--	ND	398	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/05	--	ND	109	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	--	ND	25.4	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	--	ND	16.4	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/21/07	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/02/07	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/03/08	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/30/08	--	ND	4.26 J	ND	ND	ND	ND	ND	ND	ND	--
	ug/L	03/24/09	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	10	ND	Dry	ND	ND	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--

TABLE 3

Summary of Detected Constituents in MSW Monitoring Wells
Nature and Extent Study
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well	Blanks
				MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9	
2,4-D	ug/L	03/24/09	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NC 2L = 70 ug/L	ug/L	03/22/10	2	ND	Dry	ND	ND	-	-	-	-	--	ND
	ug/L	03/16/11	2	ND	ND	ND	ND	-	-	-	-	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/21/12	2	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/20/13	2	ND	ND	0.75 J	ND	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--
Cyanide	ug/L	12/05/94	--	--	--	--	--	--	--	--	--	--	--
NC 2L = 70 ug/L	ug/L	02/14/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/29/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/06/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	10	2	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/11/98	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/04/99	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/99	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/20/00	--	--	--	--	--	--	--	--	--	--	--
	ug/L	11/07/00	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/05/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/21/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/16/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/24/02	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/01/02	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/09/03	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/20/03	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/24/04	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/27/04	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/25/05	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/04/05	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/25/06	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/04/06	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/07	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/02/07	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/08	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/08	--	--	--	--	--	--	--	--	--	--	--
	mg/L	03/24/09	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	mg/L	03/22/10	10	ND	Dry	ND	ND	-	-	-	-	--	ND
	mg/L	03/16/11	0.01	ND	ND	ND	ND	-	-	-	-	--	ND
	mg/L	09/21/11	--	--	--	--	--	--	--	--	--	--	ND
	mg/L	03/21/12	10	ND	ND	ND	ND	--	--	--	--	--	ND
	mg/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--
	mg/L	03/20/13	0.01	ND	ND	ND	ND	--	--	--	--	--	ND
	mg/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--
Sulfide	ug/L	12/05/94	--	--	--	--	--	--	--	--	--	--	--
No Standard	ug/L	02/14/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/95	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	1	300	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/29/96	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/06/96	1	200	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	1	--	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/97	1	--	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/11/98	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/04/99	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/99	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/20/00	--	--	--	--	--	--	--	--	--	--	--
	ug/L	11/07/00	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/05/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	06/21/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/16/01	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/24/02	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/01/02	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/09/03	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/20/03	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/24/04	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/27/04	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/25/05	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/04/05	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/25/06	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/04/06	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/07	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/02/07	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/03/08	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/29/08	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/24/09	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	mg/L	09/22/09	1	ND	0.28 J	ND	ND	--	--	--	--	--	ND
	mg/L	03/22/10	1	ND	Dry	ND	ND	-	-	-	-	--	ND
	mg/L	03/16/11	1	ND	ND	ND	ND	-	-	-	-	--	ND
	mg/L	09/21/11	--	--	--	--	--	--	--	--	--	--	ND
	mg/L	03/21/12	1	ND	ND	ND	ND	--	--	--	--	--	ND
	mg/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--
	mg/L	03/20/13	1	ND	ND	ND	ND	--	--	--	--	--	ND
	mg/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--
pH (field)	S.U.	02/27/01	--	--	--	--	--	--	--	--	--	--	--
	S.U.	10/04/06	--	5.81	6.06	5.54	5.90	6.17	6.15	--	--	5.35	--
	S.U.	03/21/07	--	--	--	--	--	--	--	--	--	--	--
	S.U.	10/02/07	--	5.60	5.88	5.28	5.23	5.81	5.90	--	--	5.37	--
	S.U.	04/03/08	--	5.76	6.05	5.30	5.63	6.00	5.95	6.24	7.35	4.93	--
	S.U.	10/29/08	--	--	--	--	--	--	--	--	--	--	--
	S.U.	03/24/09	--	6.94	6.43	6.42	6.64	6.21	6.82	7.11	7.56	6.31	--
	S.U.	09/22/09	--	5.58	5.32	5.60	5.72	5.87	5.91	5.92	6.27	--	--
	S.U.	03/22/10	--	5.58	Dry	5.44	6.01	6.07	5.62	5.98	6.40	--	--
	S.U.	09/23/10	--	5.48	6.00	5.67	6.04	5.27	5.79	5.85	6.26	--	--
	S.U.	03/16/11	--	5.53	5.91	5.74	6.15	5.29	5.93	6.08	6.42	--	--
	S.U.	09/21/11	--	5.65	6.01	5.92	5.88	5.11	5.88	6.38	6.44	--	--
	S.U.	03/21/12	--	5.92	5.67	5.79	5.61	4.76	5.79	6.01	6.26	4.86	--
	S.U.	09/20/12	--	5.94	6.81	7.20	5.39	6.20	6.62	7.38	7.69	--	--
	S.U.	03/20/13	--	5.60	6.11	6.02	6.21	5.84	6.06	5.95	6.31	4.85	--
	S.U.	09/18/13	--	5.79	6.02	6.19	6.25	6.30	6.16	6.17	6.56	--	--
Conductivity (field)	uS/cm	02/27/01	--	--	--	--	--	--	--	--	--	--	--
	uS/cm	10/04/06	--	90	953	319	530	531	395	--	--	56	--
	uS/cm	03/21/07	--	--	--	--	--	--	--	--	--	--	--
	uS/cm	10/02/07	--	115	451	189	319	715	597	--	--	85	--
	uS/cm	04/03/08	--	98	250	197	552	597	585	243	140	59	--
	uS/cm	10/29/08	--	--	--	--	--	--	--	--	--	--	--
	uS/cm	03/24/09	--	110	150	330	730	200	650	610	130	120	--
	uS/cm	09/22/09	--	101	125	340	661	441	675	277	111	--	--
	uS/cm	03/22/10	--	148	Dry	339	884	89	560	248	109	--	--
	uS/cm	09/23/10	--	181	1262	451	999	93	603	219	124	--	--
	uS/cm	03/16/11	--	166	92	431	529	140	589	259	119	--	--
	uS/cm	09/21/11	--	146	1228	494	989	94	563	282	114	--	--
	uS/cm	03/21/12	--	124	992	455	845	188	504	251	93	127	--
	uS/cm	09/20/12	--	116	257	468	488	209	513	251	111	--	--
	uS/cm	03/20/13	--	90	147	510	863	211	479	238	82	113	--
	uS/cm	09/18/13	--	171	965	995	1022	598	646	314	136	--	--
Temperature (field)	Celsius	02/27/01	--	--	--	--	--	--	--	--	--	--	--
	Celsius	10/04/06	--	13.8	16.6	18.0	15.7	15.4	14.7	--	--	13.7	--
	Celsius	03/21/07	--	--	--	--	--	--	--	--	--	--	--
	Celsius	10/02/07	--	14.1	17.4	17.9	16.0	15.1	14.8	--	--	13.6	--
	Celsius	04/03/08	--	13.2	12.1	16.5	15.5	13.0	12.4	13.01	15.30	13.1	--
	Celsius	10/29/08	--	--	--	--	--	--	--	--	--	--	--
	Celsius	03/24/09	--	12.6	14.9	18.5	17.3	17.6	16.8	13.6	11.9	13.7	--
	Celsius	09/22/09	--	16.7	19.95	19.91	22.78	17.31	16.68	17.22	17.47	--	--
	Celsius	03/22/10	--	13.17	Dry	14.97	11.76	10.08	10.97	9.33	7.41	--	--
	Celsius	09/23/10	--	14.92	19.69	18.65	18.77	16.25	15.78	17.11	18.35	--	--
	Celsius	03/16/11	--	12.61	9.68	15.64	15.08	11.96	11.95	10.02	9.24	--	--
	Celsius	09/21/11	--	14.32	17.37	17.38	16.06	16.29	15.85	17.06	17.34	--	--
	Celsius	03/21/12	--	15.20	14.46	16.53	17.08	15.47	15.45	13.25	12.95	14.46	--
	Celsius	09/20/12	--	14.11	17.35	17.30	15.92	16.86	17.05	16.76	18.16	--	--
	Celsius	03/20/13	--	12.82	13.84	16.78	16.17	12.68	13.26	10.12	9.10	11.54	--
	Celsius	09/18/13	--	14.3	16.7	16.6	16.2	15.9	14.6	14.6	14.0	--	--
Turbidity (field)	NTU	03/24/09	--	59.0	60.5	29.1	83.9	18.8	4.37	41.1	17.2	9.04	--
	NTU	09/22/09	--	39.1	11.6	23.7	97.6	20.2	6.68	91.0	46.0	--	--
	NTU	03/22/10	--	73.8	Dry	17.0	33.8	19.0	9.68	24.8	18.4	--	--
	NTU	09/23/10	--	48.4	11.0	24.3	51.1	12.8	4.35	34.2	6.63	--	--
	NTU	03/16/11	--	51.7	38.9	5.93	30.8	12.4	0.77	14.2	5.17	--	--
	NTU	09/21/11	--	40.1	140	64.9	280	10.3	2.18	64.9	3.41	--	--
	NTU	03/21/12	--	88.2	54.9	8.27	15.5	6.71	4.33	6.57	4.51	24.9	--
	NTU	09/20/12	--	257	30.2	82.8	90.0	85.1	16.7	163	6.46	--	--
	NTU	03/20/13	--	107	93.6	71.4	89.5	5.15	1.74	5.25	1.08	4.20	--
	NTU	09/18/13	--	66.1	>1000	27.2	60.7	72.4	19.3	192	25.3	--	--

Notes:

ug/L = micrograms per liter
mg/L = milligrams per liter
NTU = Nephelometric Turbidity Units
mV = millivolts
S.U. = Standard Units
ND = Not detected at the stated reporting limit
NM = Not measured
J = estimated concentration
B = Blank-qualified result
-- = no data available
Blanks = field, trip and method blanks
Shaded = concentrations above the NC 2L Groundwater Standards or Solid Waste Section Groundwater Protection Standards (SWS GPS) have been shaded.
SWS Reporting Limit = NCPQL or lab-specific reporting limit prior to October 2007 and NCSWSL starting in October 2007
1) Historical data prior to March 2009 provided by Henderson County and CDM.

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well		Downgradient Wells						Blanks	
				MW-10		MW-11		MW-12		MW-13			
Antimony	ug/L	03/24/09	6	ND		ND		ND		ND		ND	
SWS GPS = 1 ug/L	ug/L	09/22/09	6	ND		ND		0.098	J	ND		ND	
	ug/L	03/24/10	6	ND		ND		ND		ND		ND	
	ug/L	09/22/10	6	ND		ND		ND		ND		ND	
	ug/L	03/16/11	6	ND		ND		0.248	J	0.360	J	ND	
	ug/L	09/21/11	6	0.255	J	--		ND		0.609	J	ND	
	ug/L	03/21/12	6	0.365	J	0.965	J	ND		ND		ND	
	ug/L	09/20/12	6	ND		ND		ND		ND		ND	
	ug/L	03/20/13	6	ND		0.323	J	ND		ND		ND	
	ug/L	09/18/13	6	ND		ND		ND		ND		ND	
Arsenic	ug/L	06/21/01	10	ND		ND		ND		ND		--	
NC 2L = 10 ug/L	ug/L	04/24/02	10	ND		ND		ND		ND		--	
	ug/L	10/01/02	10	ND		ND		ND		ND		--	
	ug/L	04/10/03	10	ND		ND		ND		ND		--	
	ug/L	10/20/03	10	ND		ND		ND		ND		--	
	ug/L	03/24/04	10	ND		ND		ND		ND		--	
	ug/L	10/27/04	10	ND		ND		ND		ND		--	
	ug/L	05/25/05	10	ND		ND		ND		ND		--	
	ug/L	10/05/05	10	ND		ND		ND		ND		--	
	ug/L	04/25/06	10	ND		ND		ND		ND		--	
	ug/L	10/05/06	10	ND		ND		ND		ND		ND	
	ug/L	03/21/07	10	ND		ND		ND		ND		ND	
	ug/L	10/02/07	10	2.79	J	ND		ND		4.85	J	ND	
	ug/L	04/01/08	10	10.1		3.01	J	6.29	J	9.48	J	ND	
	ug/L	10/29/08	10	ND		ND		ND		ND		ND	
	ug/L	03/24/09	10	ND		ND		ND		ND		ND	
	ug/L	09/22/09	10	ND		3.81	J	3.64	J	ND		ND	
	ug/L	03/24/10	10	ND		ND		ND		ND		ND	
	ug/L	09/22/10	10	ND		ND		ND		ND		ND	
	ug/L	03/16/11	10	ND		ND		ND		ND		ND	
	ug/L	09/21/11	10	ND		--		ND		ND		ND	
	ug/L	03/21/12	10	ND		ND		ND		ND		ND	
	ug/L	09/20/12	10	ND		ND		ND		ND		3.27	J
	ug/L	03/20/13	10	ND		ND		3.23	J	ND		ND	
	ug/L	09/18/13	10	ND		ND		ND		ND		ND	
Barium	ug/L	06/21/01	100	ND		ND		ND		ND		--	
NC 2L = 700 ug/L	ug/L	04/24/02	100	278		ND		306		ND		--	
	ug/L	10/01/02	100	ND		ND		ND		ND		--	
	ug/L	04/10/03	100	ND		ND		ND		ND		--	
	ug/L	10/20/03	100	ND		ND		ND		ND		--	
	ug/L	03/24/04	100	ND		ND		ND		ND		--	
	ug/L	10/27/04	100	ND		ND		ND		ND		--	
	ug/L	05/25/05	100	ND		ND		ND		ND		--	
	ug/L	10/05/05	100	ND		ND		ND		ND		--	
	ug/L	04/25/06	100	ND		ND		ND		ND		--	
	ug/L	10/05/06	100	ND		ND		ND		ND		ND	
	ug/L	03/21/07	100	19.5	J	25.0	J	19.7	J	20.0	J	ND	
	ug/L	10/02/07	100	12.0	J	24.7	J	15.6	J	28.2	J	ND	
	ug/L	04/01/08	100	49.5	J	63.1	J	27.6	J	153		ND	
	ug/L	10/29/08	100	5.81	J	150		26.1	J	68.7	J	ND	
	ug/L	03/24/09	100	15.8	J	61.2	J	25.9	J	19.8	J	ND	
	ug/L	09/22/09	100	5.04	J	75.9	J	26.0	J	14.9	J	ND	
	ug/L	03/24/10	100	2.75	B	33.7	J	14.3	J	12.1	J	1.54	J
	ug/L	09/22/10	100	26.1	J	23.0	J	9.25	J	12.5	J	ND	
	ug/L	03/16/11	100	59.1	J	32.5	J	18.0	J	12.6	J	ND	
	ug/L	09/21/11	100	2.53	J	--		13.7	J	12.2	J	ND	
	ug/L	03/21/12	100	1.99	J	46.7	J	16.8	J	11.9	J	ND	
	ug/L	09/20/12	100	2.07	J	72.8	J	13.7	J	12.4	J	ND	
	ug/L	03/20/13	100	1.42	B	48.2	J	12.8	J	20.7	J	1.34	J
	ug/L	09/18/13	100	429		59.6	J	16.7	J	24.2	J	1.08	J
Beryllium	ug/L	03/24/09	1	0.32	J	1.19		0.46	J	0.09	J	ND	
SWS GPS = 4 ug/L	ug/L	09/22/09	1	0.190	B	1.02		0.682	J	0.117	B	0.113	
	ug/L	03/24/10	1	0.178	J	1.46		0.130	J	ND		ND	
	ug/L	09/22/10	1	ND		0.882	J	0.120	J	ND		ND	
	ug/L	03/16/11	1	0.753	J	0.941	J	0.117	J	ND		ND	
	ug/L	09/21/11	1	ND		--		ND		ND		ND	
	ug/L	03/21/12	1	ND		0.869	J	0.118	J	ND		ND	
	ug/L	09/20/12	1	ND		1.04		ND		ND		ND	
	ug/L	03/20/13	1	ND		0.785	J	0.102	J	ND		ND	
	ug/L	09/18/13	1	5.56		1.12		0.193	J	ND		ND	

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well		Downgradient Wells						Blanks
				MW-10		MW-11		MW-12		MW-13		
Cadmium	ug/L	06/21/01	1	ND		ND		ND		ND		--
NC 2L = 2 ug/L	ug/L	04/24/02	1	ND		ND		ND		ND		--
	ug/L	10/01/02	1	ND		ND		ND		ND		--
	ug/L	04/10/03	1	ND		ND		ND		ND		--
	ug/L	10/20/03	1	ND		ND		ND		ND		--
	ug/L	03/24/04	1	ND		ND		ND		ND		--
	ug/L	10/27/04	1	ND		ND		ND		ND		--
	ug/L	05/25/05	1	ND		ND		ND		ND		--
	ug/L	10/05/05	1	ND		ND		ND		ND		--
	ug/L	04/25/06	1	ND		ND		ND		ND		--
	ug/L	10/05/06	1	ND		ND		ND		ND		ND
	ug/L	03/21/07	1	0.750	J	1.31	J	2.31	J	2.15	J	ND
	ug/L	10/02/07	1	ND		ND		2.90	J	ND		ND
	ug/L	04/01/08	1	ND		ND		ND		0.53	J	ND
	ug/L	10/29/08	1	ND		0.35	J	ND		ND		ND
	ug/L	03/24/09	1	ND		0.27	J	0.14	J	ND		ND
	ug/L	09/22/09	1	ND		1.15		0.461	J	1.00		ND
	ug/L	03/24/10	1	ND		ND		ND		ND		ND
	ug/L	09/22/10	1	ND		ND		ND		ND		ND
	ug/L	03/16/11	1	ND		ND		ND		ND		ND
	ug/L	09/21/11	1	ND		--		0.402	J	ND		ND
	ug/L	03/21/12	1	ND		ND		0.774	J	ND		ND
	ug/L	09/20/12	1	ND		ND		ND		ND		ND
	ug/L	03/20/13	1	ND		ND		ND		ND		ND
	ug/L	09/18/13	1	ND		ND		ND		ND		ND
Chromium	ug/L	06/21/01	10	ND		ND		ND		23.8		--
NC 2L = 10 ug/L	ug/L	04/24/02	10	ND		ND		ND		ND		--
	ug/L	10/01/02	10	ND		ND		ND		ND		--
	ug/L	04/10/03	10	ND		ND		ND		ND		--
	ug/L	10/20/03	10	ND		ND		ND		13.5		--
	ug/L	03/24/04	10	ND		ND		ND		12.8		--
	ug/L	10/27/04	10	ND		ND		ND		ND		--
	ug/L	05/25/05	10	ND		ND		ND		ND		--
	ug/L	10/05/05	10	ND		ND		ND		ND		--
	ug/L	04/25/06	10	ND		ND		ND		ND		--
	ug/L	10/05/06	10	ND		ND		ND		ND		ND
	ug/L	03/21/07	10	3.41	J	3.26	J	3.55	J	2.97	J	ND
	ug/L	10/02/07	10	2.28	J	1.17	J	2.08	J	3.80	J	ND
	ug/L	04/01/08	10	5.80	J	3.56	J	3.07	J	103		ND
	ug/L	10/29/08	10	ND		ND		1.77	J	19.0		ND
	ug/L	03/24/09	10	1.0	J	ND		1.2	J	3.0	J	ND
	ug/L	09/22/09	10	ND		ND		ND		ND		ND
	ug/L	03/24/10	10	ND		ND		ND		ND		ND
	ug/L	09/22/10	10	1.18	J	ND		ND		ND		ND
	ug/L	03/16/11	10	5.18	J	ND		ND		ND		ND
	ug/L	09/21/11	10	ND		--		ND		ND		ND
	ug/L	03/21/12	10	ND		ND		ND		ND		ND
	ug/L	09/20/12	10	ND		1.80	J	ND		ND		ND
	ug/L	03/20/13	10	ND		ND		ND		ND		ND
	ug/L	09/18/13	10	12.6		ND		ND		1.57	J	ND
Cobalt	ug/L	03/24/09	10	0.8	J	ND		1.1	J	ND		ND
SWS GPS = 1 ug/L	ug/L	09/22/09	10	ND		ND		1.28	J	ND		ND
	ug/L	03/24/10	10	ND		4.30	J	ND		ND		ND
	ug/L	09/22/10	10	2.10	J	2.89	J	1.87	J	ND		ND
	ug/L	03/16/11	10	3.28	J	2.05	J	ND		ND		ND
	ug/L	09/21/11	10	ND		--		ND		ND		ND
	ug/L	03/21/12	10	ND		ND		ND		ND		ND
	ug/L	09/20/12	10	ND		1.37	J	1.55	J	1.11	J	ND
	ug/L	03/20/13	10	ND		1.54	J	ND		2.35	J	ND
	ug/L	09/18/13	10	15.3		1.56	J	ND		ND		ND
Copper	ug/L	03/24/09	10	3.42	J	ND		ND		ND		ND
NC 2L =1000 ug/L	ug/L	09/22/09	10	ND		ND		ND		1.82	J	ND
	ug/L	03/24/10	10	ND		2.76	J	ND		ND		ND
	ug/L	09/22/10	10	3.49	J	ND		ND		ND		ND
	ug/L	03/16/11	10	15.9		2.55	J	3.09	J	4.85	J	ND
	ug/L	09/21/11	10	ND		--		ND		1.80	J	ND
	ug/L	03/21/12	10	ND		ND		ND		ND		ND
	ug/L	09/20/12	10	ND		ND		ND		ND		ND
	ug/L	03/20/13	10	ND		ND		1.97	J	ND		ND
	ug/L	09/18/13	10	31.1		ND		ND		ND		ND

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well		Downgradient Wells						Blanks	
				MW-10		MW-11		MW-12		MW-13			
Lead	ug/L	06/21/01	10	14.2		ND		ND		10.4		--	
NC 2L = 15 ug/L	ug/L	04/24/02	10	ND		ND		ND		ND		--	
	ug/L	10/01/02	10	ND		ND		ND		ND		--	
	ug/L	04/10/03	10	ND		ND		ND		ND		--	
	ug/L	10/20/03	10	ND		ND		ND		ND		--	
	ug/L	03/24/04	10	ND		ND		ND		ND		--	
	ug/L	10/27/04	10	ND		ND		ND		ND		--	
	ug/L	05/25/05	10	10.3		ND		ND		ND		--	
	ug/L	10/05/05	10	ND		ND		ND		ND		--	
	ug/L	04/25/06	10	ND		ND		ND		ND		--	
	ug/L	10/05/06	10	ND		ND		ND		ND		ND	
	ug/L	03/21/07	10	3.32	J	3.57	J	2.12	J	ND		ND	
	ug/L	10/02/07	10	ND		ND		ND		ND		ND	
	ug/L	04/01/08	10	13.1		9.16	J	ND		25.1		ND	
	ug/L	10/29/08	10	6.51	J	ND		8.35	J	9.00	J	ND	
	ug/L	03/24/09	10	4.4	J	3.7	J	3.1	J	3.9	J	ND	
	ug/L	09/22/09	10	2.40	J	ND		3.84	J	ND		ND	
	ug/L	03/24/10	10	ND		ND		2.18	J	ND		ND	
	ug/L	09/22/10	10	2.56	J	ND		ND		ND		ND	
	ug/L	03/16/11	10	12.8		2.55	J	ND		2.29	J	ND	
	ug/L	09/21/11	10	ND		--		ND		ND		ND	
	ug/L	03/21/12	10	ND		ND		ND		ND		ND	
	ug/L	09/20/12	10	ND		ND		ND		ND		2.70	J
	ug/L	03/20/13	10	ND		ND		ND		ND		ND	
	ug/L	09/18/13	10	37.6		ND		ND		ND		ND	
Mercury	ug/L	06/21/01	0.2	ND		ND		ND		ND		--	
NC 2L = 1 ug/L	ug/L	04/24/02	0.2	ND		ND		ND		ND		--	
	ug/L	10/01/02	0.2	ND		ND		ND		ND		--	
	ug/L	04/10/03	0.2	ND		ND		ND		ND		--	
	ug/L	10/20/03	0.2	ND		ND		ND		ND		--	
	ug/L	03/24/04	0.2	ND		ND		ND		ND		--	
	ug/L	10/27/04	0.2	ND		ND		ND		ND		--	
	ug/L	05/25/05	0.2	ND		ND		ND		ND		--	
	ug/L	10/05/05	0.2	ND		ND		ND		ND		--	
	ug/L	04/25/06	0.2	ND		ND		ND		ND		--	
	ug/L	10/05/06	0.2	ND		ND		ND		ND		ND	
	ug/L	03/21/07	0.2	ND		ND		0.093	J	ND		ND	
	ug/L	10/02/07	0.2	ND		ND		0.136	J	ND		ND	
	ug/L	04/01/08	0.2	ND		ND		0.096	J	ND		ND	
	ug/L	10/29/08	0.2	ND		ND		0.198	J	ND		ND	
	ug/L	03/24/09	0.2	ND		ND		0.54		ND		ND	
	ug/L	09/22/09	0.2	ND		ND		0.172	J	ND		ND	
	ug/L	03/24/10	0.2	ND		0.0586	J	0.144	J	ND		ND	
	ug/L	09/22/10	0.2	ND		ND		ND		ND		ND	
	ug/L	03/16/11	0.2	ND		ND		ND		ND		ND	
	ug/L	09/21/11	0.2	ND		--		ND		ND		ND	
	ug/L	03/21/12	0.2	ND		ND		ND		ND		ND	
	ug/L	09/20/12	0.2	ND		ND		0.253		ND		ND	
	ug/L	03/20/13	0.2	ND		ND		0.199	J	ND		ND	
	ug/L	09/18/13	0.2	ND		ND		ND		0.246		ND	
Nickel	ug/L	03/24/09	50	0.7	J	ND		1.1	J	1.0	J	ND	
NC 2L = 100 ug/L	ug/L	09/22/09	50	ND		ND		ND		1.88	J	ND	
	ug/L	03/24/10	50	ND		ND		ND		ND		ND	
	ug/L	09/22/10	50	ND		ND		ND		ND		ND	
	ug/L	03/16/11	50	3.91	J	ND		ND		ND		ND	
	ug/L	09/21/11	50	ND		--		ND		ND		ND	
	ug/L	03/21/12	50	ND		ND		ND		ND		ND	
	ug/L	09/20/12	50	ND		3.07	J	ND		ND		ND	
	ug/L	03/20/13	50	ND		ND		ND		ND		ND	
	ug/L	09/18/13	50	7.11	J	ND		ND		ND		ND	

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well		Downgradient Wells						Blanks	
				MW-10		MW-11		MW-12		MW-13			
Selenium	ug/L	06/21/01	10	ND		ND		ND		ND		--	
NC 2L = 20 ug/L	ug/L	04/24/02	10	ND		ND		ND		ND		--	
	ug/L	10/01/02	10	ND		ND		ND		ND		--	
	ug/L	04/10/03	10	ND		ND		ND		ND		--	
	ug/L	10/20/03	10	ND		ND		ND		ND		--	
	ug/L	03/24/04	10	ND		ND		ND		ND		--	
	ug/L	10/27/04	10	ND		ND		ND		ND		--	
	ug/L	05/25/05	10	ND		ND		ND		ND		--	
	ug/L	10/05/05	10	ND		ND		ND		ND		--	
	ug/L	04/25/06	10	ND		ND		ND		ND		--	
	ug/L	10/05/06	10	ND		ND		ND		ND		ND	
	ug/L	03/21/07	10	ND		ND		ND		10.2	J	ND	
	ug/L	10/02/07	10	ND		ND		ND		ND		ND	
	ug/L	04/01/08	10	ND		ND		ND		19.2		ND	
	ug/L	10/29/08	10	ND		ND		ND		ND		ND	
	ug/L	03/24/09	10	ND		ND		ND		ND		ND	
	ug/L	09/22/09	10	ND		ND		ND		ND		ND	
	ug/L	03/24/10	10	ND		ND		ND		ND		ND	
	ug/L	09/22/10	10	ND		ND		ND		ND		ND	
	ug/L	03/16/11	10	ND		ND		ND		ND		3.32	J
	ug/L	09/21/11	10	ND		--		ND		ND		ND	
	ug/L	03/21/12	10	ND		ND		ND		ND		ND	
	ug/L	09/20/12	10	ND		ND		ND		ND		ND	
	ug/L	03/20/13	10	ND		ND		ND		ND		ND	
	ug/L	09/18/13	10	ND		ND		ND		ND		ND	
Silver	ug/L	06/21/01	10	ND		ND		ND		ND		--	
NC 2L = 20 ug/L	ug/L	04/24/02	10	ND		ND		ND		ND		--	
	ug/L	10/01/02	10	ND		ND		ND		ND		--	
	ug/L	04/10/03	10	ND		ND		ND		ND		--	
	ug/L	10/20/03	10	ND		ND		ND		ND		--	
	ug/L	03/24/04	10	ND		ND		ND		ND		--	
	ug/L	10/27/04	10	ND		ND		ND		ND		--	
	ug/L	05/25/05	10	ND		ND		ND		ND		--	
	ug/L	10/05/05	10	ND		ND		ND		ND		--	
	ug/L	04/25/06	10	ND		ND		ND		ND		--	
	ug/L	10/05/06	10	ND		ND		ND		ND		ND	
	ug/L	03/21/07	10	3.49	J	3.41	J	3.04	J	2.96	J	ND	
	ug/L	10/02/07	10	ND		ND		ND		ND		ND	
	ug/L	04/01/08	10	4.12	J	4.48	J	4.07	J	3.65	J	ND	
	ug/L	10/29/08	10	1.57	B	1.80	B	1.40	B	1.52	B	--	
	ug/L	03/24/09	10	ND		1.2	J	ND		ND		ND	
	ug/L	09/22/09	10	ND		ND		ND		ND		ND	
	ug/L	03/24/10	10	ND		ND		ND		ND		ND	
	ug/L	09/22/10	10	ND		ND		ND		ND		ND	
	ug/L	03/16/11	10	ND		ND		ND		ND		ND	
	ug/L	09/21/11	10	ND		--		ND		ND		ND	
	ug/L	03/21/12	10	ND		ND		ND		ND		ND	
	ug/L	09/20/12	10	ND		ND		ND		ND		ND	
	ug/L	03/20/13	10	ND		ND		ND		ND		2.11	J
	ug/L	09/18/13	10	ND		ND		ND		ND		ND	
Thallium	ug/L	03/24/09	5.5	ND		ND		0.061	B	ND		0.092	J
NC 2L = 0.28 ug/L	ug/L	09/22/09	5.5	ND		ND		ND		ND		ND	
	ug/L	03/24/10	5.5	ND		ND		ND		ND		ND	
	ug/L	09/22/10	5.5	ND		ND		ND		ND		ND	
	ug/L	03/16/11	5.5	ND		ND		ND		ND		ND	
	ug/L	09/21/11	5.5	ND		--		ND		ND		ND	
	ug/L	03/21/12	5.5	ND		ND		ND		ND		ND	
	ug/L	09/20/12	5.5	ND		ND		ND		ND		ND	
	ug/L	03/20/13	5.5	ND		ND		ND		ND		ND	
	ug/L	09/18/13	5.5	ND		ND		ND		ND		ND	
Vanadium	ug/L	03/24/09	25	4.9	J	1.0	J	6.5	J	3.3	J	ND	
SWS GPS = 0.3 ug/L	ug/L	09/22/09	25	2.01	J	ND		6.20	J	2.01	J	ND	
	ug/L	03/24/10	25	ND		2.62	J	1.57	J	ND		ND	
	ug/L	09/22/10	25	7.06	J	ND		ND		1.64	J	ND	
	ug/L	03/16/11	25	19.5	J	1.76	J	3.03	J	ND		ND	
	ug/L	09/21/11	25	ND		--		2.32	J	ND		ND	
	ug/L	03/21/12	25	ND		2.19	J	3.02	J	1.52	J	ND	
	ug/L	09/20/12	25	ND		2.85	J	ND		ND		ND	
	ug/L	03/20/13	25	ND		2.34	J	ND		1.91	J	ND	
	ug/L	09/18/13	25	75.0		1.86	J	1.72	J	3.22	J	ND	
Zinc	ug/L	03/24/09	10	8.0	B	9.0	B	17.9		7.2	B	3.4	
NC 2L = 1000 ug/L	ug/L	09/22/09	10	ND		32.4		17.3		12.0		ND	
	ug/L	03/24/10	10	13.2		20.0		21.5		12.2		ND	
	ug/L	09/22/10	10	14.8		7.45	J	6.78	J	10.5		ND	
	ug/L	03/16/11	10	43.2		4.05	J	12.5		26.0		ND	
	ug/L	09/21/11	10	ND		--		12.0		12.5		ND	
	ug/L	03/21/12	10	ND		92.0		6.44	J	ND		ND	
	ug/L	09/20/12	10	ND		22.2		ND		ND		ND	
	ug/L	03/20/13	10	9.34	J	11.2		11.9		8.08	J	ND	
	ug/L	09/18/13	10	152		15.6		9.51	J	7.43	J	ND	

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well		Downgradient Wells						Blanks	
				MW-10		MW-11		MW-12		MW-13			
Iron	ug/L	03/24/09	300	2750		1400		4810		1670		ND	
NC 2L = 300 ug/L	ug/L	09/22/09	300	684		1390		4450		735		ND	
	ug/L	03/24/10	300	151	J	2050		830		564		27.6	
	ug/L	09/22/10	300	4690		630		841		658		ND	
	ug/L	03/16/11	300	14200		1770		1600		462		ND	
	ug/L	09/21/11	300	153	J	--		269	J	457		ND	
	ug/L	03/21/12	300	81.3	B	4460		1260		245	J	44.0	J
	ug/L	09/20/12	300	36.2	J	4040		133	J	91.7	J	ND	
	ug/L	03/20/13	300	22.2	J	4530		594		2040		ND	
	ug/L	09/18/13	300	52700		5170		1270		1770		ND	
Manganese	ug/L	03/24/09	50	60.9		165		155		59.1		ND	
NC 2L = 50 ug/L	ug/L	09/22/09	50	18.1	J	186		163		34.9	J	1.99	
	ug/L	03/24/10	50	4.51	B	1780		142		111		2.13	
	ug/L	09/22/10	50	121		923		743		58.4		3.27	J
	ug/L	03/16/11	50	356		349		389		116		3.57	J
	ug/L	09/21/11	50	8.27	J	--		239		66.2		ND	
	ug/L	03/21/12	50	3.45	B	164		295		88.3		2.02	J
	ug/L	09/20/12	50	1.43	J	256		163		74.2		ND	
	ug/L	03/20/13	50	2.22	B	262		285		286		7.96	J
	ug/L	09/18/13	50	1530		390		214		84.9		1.75	J
Acetone	ug/L	03/24/09	100	ND		ND		3.8	J	ND		ND	
NC 2L = 6000 ug/L	ug/L	09/22/09	100	ND		ND		ND		ND		ND	
	ug/L	03/24/10	100	ND		19	J	13	J	ND		ND	
	ug/L	09/22/10	100	ND		4.5	J	2.7	J	ND		ND	
	ug/L	03/16/11	100	ND		92	J	17	J	ND		ND	
	ug/L	09/21/11	100	ND		--		18	J	ND		ND	
	ug/L	03/21/12	100	ND		7.5	J	30	J	ND		ND	
	ug/L	09/20/12	100	ND		4.3	B	9.9	B	ND		7.0	J
	ug/L	03/20/13	100	ND		ND		6.8	J	ND		ND	
	ug/L	09/18/13	100	ND		ND		ND		ND		ND	
Benzene	ug/L	06/21/01	1	ND		ND		ND		ND		--	
NC 2L = 1 ug/L	ug/L	04/24/02	1	ND		ND		ND		ND		--	
	ug/L	10/01/02	1	ND		ND		ND		ND		--	
	ug/L	04/10/03	1	ND		ND		ND		ND		--	
	ug/L	10/20/03	1	ND		ND		ND		ND		--	
	ug/L	03/24/04	1	ND		ND		ND		ND		--	
	ug/L	10/27/04	1	ND		ND		ND		ND		--	
	ug/L	05/25/05	1	ND		ND		ND		ND		--	
	ug/L	10/05/05	1	ND		ND		ND		ND		--	
	ug/L	04/25/06	1	ND		ND		ND		ND		--	
	ug/L	10/05/06	1	ND		ND		ND		ND		ND	
	ug/L	03/21/07	1	ND		ND		ND		ND		ND	
	ug/L	10/02/07	1	ND		ND		0.15	J	ND		ND	
	ug/L	04/01/08	1	ND		ND		0.28	J	ND		ND	
	ug/L	10/29/08	1	ND		ND		0.28	J	ND		ND	
	ug/L	03/24/09	1	ND		ND		ND		ND		ND	
	ug/L	09/22/09	1	ND		0.50	J	ND		ND		ND	
	ug/L	03/24/10	1	ND		ND		ND		ND		ND	
	ug/L	09/22/10	1	ND		ND		ND		ND		ND	
	ug/L	03/16/11	1	ND		ND		ND		ND		ND	
	ug/L	09/21/11	1	ND		--		ND		ND		ND	
	ug/L	03/21/12	1	ND		ND		ND		ND		ND	
	ug/L	09/20/12	1	ND		ND		ND		ND		ND	
	ug/L	03/20/13	1	ND		ND		ND		ND		ND	
	ug/L	09/18/13	1	ND		ND		0.47	J	ND		ND	
Carbon disulfide	ug/L	03/24/09	100	ND		ND		ND		ND		ND	
NC 2L = 700 ug/L	ug/L	09/22/09	100	ND		ND		ND		ND		ND	
	ug/L	03/24/10	100	ND		ND		ND		ND		ND	
	ug/L	09/22/10	100	ND		ND		ND		ND		ND	
	ug/L	03/16/11	100	ND		ND		ND		ND		ND	
	ug/L	09/21/11	100	ND		--		ND		ND		ND	
	ug/L	03/21/12	100	ND		ND		ND		ND		ND	
	ug/L	09/20/12	100	ND		6.7	J	ND		ND		ND	
	ug/L	03/20/13	100	ND		ND		ND		ND		ND	
	ug/L	09/18/13	100	ND		ND		ND		ND		ND	

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well	Downgradient Wells			Blanks
				MW-10	MW-11	MW-12	MW-13	
Chloroethane	ug/L	06/21/01	10	ND	ND	ND	ND	--
SWS GPS = 3000 ug/L	ug/L	04/24/02	10	ND	ND	ND	ND	--
	ug/L	10/01/02	10	ND	ND	ND	ND	--
	ug/L	04/10/03	10	ND	ND	ND	ND	--
	ug/L	10/20/03	10	ND	ND	ND	ND	--
	ug/L	03/24/04	10	ND	ND	ND	ND	--
	ug/L	10/27/04	10	ND	ND	ND	ND	--
	ug/L	05/25/05	10	ND	ND	ND	ND	--
	ug/L	10/05/05	10	ND	ND	ND	ND	--
	ug/L	04/25/06	10	ND	ND	ND	ND	--
	ug/L	10/05/06	10	ND	ND	ND	ND	ND
	ug/L	03/21/07	10	ND	ND	0.84 J	ND	ND
	ug/L	10/02/07	10	ND	ND	1.08 J	ND	ND
	ug/L	04/01/08	10	ND	ND	ND	ND	ND
	ug/L	10/29/08	10	ND	ND	1.60 J	ND	ND
	ug/L	03/24/09	10	ND	ND	ND	ND	ND
	ug/L	09/22/09	10	ND	ND	ND	ND	ND
	ug/L	03/24/10	10	ND	ND	ND	ND	ND
	ug/L	09/22/10	10	ND	ND	0.95 J	ND	ND
	ug/L	03/16/11	10	ND	ND	ND	ND	ND
	ug/L	09/21/11	10	ND	--	ND	ND	ND
	ug/L	03/21/12	10	ND	ND	ND	ND	ND
	ug/L	09/20/12	10	ND	ND	ND	ND	ND
	ug/L	03/20/13	10	ND	ND	ND	ND	ND
	ug/L	09/18/13	10	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ug/L	06/21/01	1	ND	ND	ND	ND	--
NC 2L = 6 ug/L	ug/L	04/24/02	1	ND	ND	ND	ND	--
	ug/L	10/01/02	1	ND	ND	ND	ND	--
	ug/L	04/10/03	1	ND	ND	ND	ND	--
	ug/L	10/20/03	1	ND	ND	ND	ND	--
	ug/L	03/24/04	1	ND	ND	ND	ND	--
	ug/L	10/27/04	1	ND	ND	ND	ND	--
	ug/L	05/25/05	1	ND	ND	ND	ND	--
	ug/L	10/05/05	1	ND	ND	ND	ND	--
	ug/L	04/25/06	1	ND	ND	ND	ND	--
	ug/L	10/05/06	1	ND	ND	ND	ND	ND
	ug/L	03/21/07	1	ND	ND	0.21 J	ND	ND
	ug/L	10/02/07	1	ND	ND	0.23 J	0.23 J	ND
	ug/L	04/01/08	1	ND	ND	0.26 J	ND	ND
	ug/L	10/29/08	1	ND	ND	0.23 J	ND	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	ND
	ug/L	09/22/09	1	ND	ND	ND	ND	ND
	ug/L	03/24/10	1	ND	0.46 J	ND	0.45 J	ND
	ug/L	09/22/10	1	ND	ND	ND	0.57 J	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND
	ug/L	09/21/11	1	ND	--	ND	ND	ND
	ug/L	03/21/12	1	ND	ND	ND	0.64 J	ND
	ug/L	09/20/12	1	ND	ND	ND	0.51 J	ND
	ug/L	03/20/13	1	ND	ND	ND	0.41 J	ND
	ug/L	09/18/13	1	ND	ND	ND	0.55 J	ND
1,1-Dichloroethane	ug/L	06/21/01	5	ND	ND	ND	ND	--
NC 2L = 6 ug/L	ug/L	04/24/02	5	ND	ND	ND	ND	--
	ug/L	10/01/02	5	ND	ND	ND	ND	--
	ug/L	04/10/03	5	ND	ND	ND	ND	--
	ug/L	10/20/03	5	ND	ND	ND	ND	--
	ug/L	03/24/04	5	ND	ND	ND	ND	--
	ug/L	10/27/04	5	ND	ND	ND	ND	--
	ug/L	05/25/05	5	ND	ND	ND	ND	--
	ug/L	10/05/05	5	ND	ND	ND	ND	--
	ug/L	04/25/06	5	ND	ND	ND	ND	--
	ug/L	10/05/06	5	ND	ND	ND	ND	ND
	ug/L	03/21/07	5	ND	ND	0.71 J	ND	ND
	ug/L	10/02/07	5	ND	ND	0.79 J	0.09 J	ND
	ug/L	04/01/08	5	ND	ND	0.99 J	0.12 J	ND
	ug/L	10/29/08	5	ND	ND	1.01 J	0.15 J	ND
	ug/L	03/24/09	5	ND	ND	0.82 J	ND	ND
	ug/L	09/22/09	5	ND	ND	0.70 J	ND	ND
	ug/L	03/24/10	5	ND	ND	0.47 J	ND	ND
	ug/L	09/22/10	5	ND	ND	ND	ND	ND
	ug/L	03/16/11	5	ND	ND	0.40 J	ND	ND
	ug/L	09/21/11	5	ND	--	0.51 J	ND	ND
	ug/L	03/21/12	5	ND	ND	ND	ND	ND
	ug/L	09/20/12	5	ND	ND	ND	ND	ND
	ug/L	03/20/13	5	ND	ND	ND	0.46 J	ND
	ug/L	09/18/13	5	ND	ND	ND	ND	ND

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well		Downgradient Wells						Blanks
				MW-10		MW-11		MW-12		MW-13		
1,1-Dichloroethene	ug/L	03/24/09	5	ND		ND		ND		ND		ND
NC 2L = 7 ug/L	ug/L	09/22/09	5	ND		ND		ND		ND		ND
	ug/L	03/24/10	5	ND		ND		ND		ND		ND
	ug/L	09/22/10	5	ND		ND		ND		ND		ND
	ug/L	03/16/11	5	ND		ND		3.3	J	ND		ND
	ug/L	09/21/11	5	ND		--		ND		ND		ND
	ug/L	03/21/12	5	ND		ND		ND		ND		ND
	ug/L	09/20/12	5	ND		ND		ND		ND		ND
	ug/L	03/20/13	5	ND		ND		ND		3.1	J	ND
	ug/L	09/18/13	5	ND		ND		ND		ND		ND
cis-1,2-Dichloroethene	ug/L	06/21/01	5	ND		ND		ND		ND		--
NC 2L = 70 ug/L	ug/L	04/24/02	5	ND		ND		ND		ND		--
	ug/L	10/01/02	5	ND		ND		ND		ND		--
	ug/L	04/10/03	5	ND		6		ND		ND		--
	ug/L	10/20/03	5	ND		ND		ND		ND		--
	ug/L	03/24/04	5	ND		ND		ND		ND		--
	ug/L	10/27/04	5	ND		ND		ND		ND		--
	ug/L	05/25/05	5	ND		ND		ND		ND		--
	ug/L	10/05/05	5	ND		ND		ND		ND		--
	ug/L	04/25/06	5	ND		ND		ND		ND		--
	ug/L	10/05/06	5	ND		ND		ND		ND		ND
	ug/L	03/21/07	5	ND		ND		0.20	J	ND		ND
	ug/L	10/02/07	5	ND		ND		0.27	J	0.21	J	ND
	ug/L	04/01/08	5	ND		ND		0.39	J	0.30	J	ND
	ug/L	10/29/08	5	ND		0.11	J	0.44	J	0.35	J	ND
	ug/L	03/24/09	5	ND		ND		ND		ND		ND
	ug/L	09/22/09	5	ND		5.7		ND		ND		ND
	ug/L	03/24/10	5	ND		5.3		ND		0.84	J	ND
	ug/L	09/22/10	5	ND		ND		ND		0.78	J	ND
	ug/L	03/16/11	5	ND		ND		0.76	J	1.3	J	ND
	ug/L	09/21/11	5	ND		--		ND		1.1	J	ND
	ug/L	03/21/12	5	ND		0.46	J	0.73	J	1.3	J	ND
	ug/L	09/20/12	5	ND		ND		0.60	J	1.4	J	ND
	ug/L	03/20/13	5	ND		0.94	J	0.86	J	1.6	J	ND
	ug/L	09/18/13	5	ND		1.8	J	1.1	J	1.7	J	ND
Chloromethane	ug/L	03/24/09	1	ND		ND		ND		ND		ND
SWS GPS = 3 ug/L	ug/L	09/22/09	1	ND		ND		ND		ND		ND
	ug/L	03/24/10	1	ND		ND		ND		ND		ND
	ug/L	09/22/10	1	0.51	J	0.47	J	1.1		ND		ND
	ug/L	03/16/11	1	ND		ND		ND		ND		ND
	ug/L	09/21/11	1	ND		--		ND		ND		ND
	ug/L	03/21/12	1	ND		ND		ND		ND		ND
	ug/L	09/20/12	1	ND		ND		ND		ND		ND
	ug/L	03/20/13	1	ND		ND		ND		ND		ND
	ug/L	09/18/13	1	ND		ND		ND		ND		ND
Methylene chloride	ug/L	06/21/01	1	ND		ND		ND		ND		--
NC 2L = 5 ug/L	ug/L	04/24/02	1	ND		ND		ND		ND		--
	ug/L	10/01/02	1	ND		ND		ND		ND		--
	ug/L	04/10/03	1	ND		ND		ND		ND		--
	ug/L	10/20/03	1	ND		ND		ND		ND		--
	ug/L	03/24/04	1	ND		ND		ND		ND		--
	ug/L	10/27/04	1	ND		ND		ND		ND		--
	ug/L	05/25/05	1	ND		ND		ND		ND		--
	ug/L	10/05/05	1	ND		ND		ND		ND		--
	ug/L	04/25/06	1	ND		ND		ND		ND		--
	ug/L	10/05/06	1	ND		ND		ND		ND		ND
	ug/L	03/21/07	1	0.20	B	ND		2.08	B	0.38	B	0.39
	ug/L	10/02/07	1	ND		ND		1.42	B	ND		0.61
	ug/L	04/01/08	1	ND		0.52	B	2.83	J	0.48	B	0.54
	ug/L	10/29/08	1	ND		ND		2.58		0.52	J	ND
	ug/L	03/24/09	1	ND		ND		0.53	J	ND		ND
	ug/L	09/22/09	1	ND		ND		1.2		ND		ND
	ug/L	03/24/10	1	ND		ND		0.92	J	ND		ND
	ug/L	09/22/10	1	ND		ND		0.70	J	ND		ND
	ug/L	03/16/11	1	ND		ND		1.6		0.52	J	ND
	ug/L	09/21/11	1	ND		--		1.0		ND		ND
	ug/L	03/21/12	1	ND		ND		0.87	J	0.62	J	ND
	ug/L	09/20/12	1	ND		ND		ND		ND		ND
	ug/L	03/20/13	1	ND		ND		1.3		ND		ND
	ug/L	09/18/13	1	ND		ND		ND		ND		ND
2-Butanone	ug/L	03/24/09	100	ND		ND		ND		ND		ND
NC 2L = 4000 ug/L	ug/L	09/22/09	100	ND		ND		ND		ND		ND
	ug/L	03/24/10	100	ND		ND		ND		ND		ND
	ug/L	09/22/10	100	ND		ND		ND		ND		ND
	ug/L	03/16/11	100	ND		1.6	J	ND		ND		ND
	ug/L	09/21/11	100	ND		--		ND		ND		ND
	ug/L	03/21/12	100	ND		ND		ND		ND		ND
	ug/L	09/20/12	100	ND		ND		ND		ND		ND
	ug/L	03/20/13	100	ND		ND		ND		ND		ND
	ug/L	09/18/13	100	ND		ND		ND		ND		ND

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well	Downgradient Wells				Blanks
				MW-10	MW-11	MW-12	MW-13		
Tetrachloroethene	ug/L	06/21/01	1	ND	ND	ND	ND		--
NC 2L = 0.7 ug/L	ug/L	04/24/02	1	ND	ND	ND	ND		--
	ug/L	10/01/02	1	ND	ND	ND	ND		--
	ug/L	04/10/03	1	ND	ND	ND	ND		--
	ug/L	10/20/03	1	ND	ND	ND	ND		--
	ug/L	03/24/04	1	ND	ND	ND	ND		--
	ug/L	10/27/04	1	ND	ND	ND	ND		--
	ug/L	05/25/05	1	ND	ND	ND	ND		--
	ug/L	10/05/05	1	ND	ND	ND	ND		--
	ug/L	04/25/06	1	ND	ND	ND	ND		--
	ug/L	10/05/06	1	ND	ND	ND	ND		ND
	ug/L	03/21/07	1	ND	ND	0.76	ND	J	ND
	ug/L	10/02/07	1	ND	ND	1.05	0.27	J	ND
	ug/L	04/01/08	1	ND	0.12 J	1.22	0.32	J J	ND
	ug/L	10/29/08	1	ND	0.36 J	1.21	0.33	J	ND
	ug/L	03/24/09	1	ND	0.49 J	1.3	ND		ND
	ug/L	09/22/09	1	ND	2.9	1.1	ND		ND
	ug/L	03/24/10	1	ND	3.4	1.6	0.56	J	ND
	ug/L	09/22/10	1	ND	ND	1.7	ND		ND
	ug/L	03/16/11	1	ND	ND	1.4	ND		ND
	ug/L	09/21/11	1	ND	--	ND	0.75	J	ND
	ug/L	03/21/12	1	ND	ND	0.74	0.49	J J	ND
	ug/L	09/20/12	1	ND	ND	0.73	ND	J	ND
	ug/L	03/20/13	1	ND	ND	ND	ND		ND
	ug/L	09/18/13	1	ND	0.46 J	0.40	ND	J	ND
Toluene	ug/L	06/21/01	1	ND	ND	ND	ND		--
NC 2L = 600 ug/L	ug/L	04/24/02	1	ND	ND	ND	ND		--
	ug/L	10/01/02	1	ND	ND	ND	ND		--
	ug/L	04/10/03	1	ND	ND	ND	ND		--
	ug/L	10/20/03	1	ND	ND	ND	ND		--
	ug/L	03/24/04	1	ND	ND	ND	ND		--
	ug/L	10/27/04	1	ND	ND	ND	ND		--
	ug/L	05/25/05	1	ND	ND	ND	ND		--
	ug/L	10/05/05	1	ND	ND	ND	ND		--
	ug/L	04/25/06	1	ND	ND	ND	ND		--
	ug/L	10/05/06	1	ND	ND	ND	ND		ND
	ug/L	03/21/07	1	ND	ND	ND	ND		ND
	ug/L	10/02/07	1	ND	ND	ND	ND		ND
	ug/L	04/01/08	1	ND	ND	ND	0.19	J	ND
	ug/L	10/29/08	1	ND	ND	ND	ND		ND
	ug/L	03/24/09	1	ND	ND	ND	ND		ND
	ug/L	09/22/09	1	ND	ND	ND	ND		ND
	ug/L	03/24/10	1	ND	ND	ND	ND		ND
	ug/L	09/22/10	1	ND	ND	ND	ND		ND
	ug/L	03/16/11	1	ND	ND	ND	ND		ND
	ug/L	09/21/11	1	ND	--	ND	ND		ND
	ug/L	03/21/12	1	ND	ND	ND	ND		ND
	ug/L	09/20/12	1	ND	ND	ND	ND		ND
	ug/L	03/20/13	1	ND	ND	ND	ND		ND
	ug/L	09/18/13	1	ND	ND	ND	ND		ND
1,1,1-Trichloroethane	ug/L	06/21/01	1	ND	ND	ND	ND		--
NC 2L = 200 ug/L	ug/L	04/24/02	1	ND	ND	ND	ND		--
	ug/L	10/01/02	1	ND	ND	ND	ND		--
	ug/L	04/10/03	1	ND	ND	ND	ND		--
	ug/L	10/20/03	1	ND	ND	ND	ND		--
	ug/L	03/24/04	1	ND	ND	ND	ND		--
	ug/L	10/27/04	1	ND	ND	ND	ND		--
	ug/L	05/25/05	1	ND	ND	ND	ND		--
	ug/L	10/05/05	1	ND	ND	ND	ND		--
	ug/L	04/25/06	1	ND	ND	ND	ND		--
	ug/L	10/05/06	1	ND	ND	ND	ND		ND
	ug/L	03/21/07	1	ND	ND	0.24	ND	J	ND
	ug/L	10/02/07	1	ND	ND	0.21	ND	J	ND
	ug/L	04/01/08	1	ND	ND	0.17	ND	J	ND
	ug/L	10/29/08	1	ND	ND	0.15	ND	J	ND
	ug/L	03/24/09	1	ND	ND	ND	ND		ND
	ug/L	09/22/09	1	ND	ND	ND	ND		ND
	ug/L	03/24/10	1	ND	ND	ND	ND		ND
	ug/L	09/22/10	1	ND	ND	ND	ND		ND
	ug/L	03/16/11	1	ND	ND	ND	ND		ND
	ug/L	09/21/11	1	ND	--	ND	ND		ND
	ug/L	03/21/12	1	ND	ND	ND	ND		ND
	ug/L	09/20/12	1	ND	ND	ND	ND		ND
	ug/L	03/20/13	1	ND	ND	ND	ND		ND
	ug/L	09/18/13	1	ND	ND	ND	ND		ND

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well	Downgradient Wells				Blanks
				MW-10	MW-11	MW-12	MW-13		
Trichloroethene	ug/L	06/21/01	1	ND	ND	ND	ND		--
NC 2L = 3 ug/L	ug/L	04/24/02	1	ND	ND	ND	ND		--
	ug/L	10/01/02	1	ND	ND	ND	ND		--
	ug/L	04/10/03	1	ND	ND	ND	ND		--
	ug/L	10/20/03	1	ND	ND	ND	ND		--
	ug/L	03/24/04	1	ND	ND	ND	ND		--
	ug/L	10/27/04	1	ND	ND	ND	ND		--
	ug/L	05/25/05	1	ND	ND	ND	ND		--
	ug/L	10/05/05	1	ND	ND	ND	ND		--
	ug/L	04/25/06	1	ND	ND	ND	ND		--
	ug/L	10/05/06	1	ND	ND	ND	ND		ND
	ug/L	03/21/07	1	ND	ND	0.24 J	ND		ND
	ug/L	10/02/07	1	ND	ND	0.27 J	0.18	J	ND
	ug/L	04/01/08	1	ND	ND	0.51 J	0.19	J	ND
	ug/L	10/29/08	1	ND	ND	0.52 J	1.13		ND
	ug/L	03/24/09	1	ND	ND	0.44 J	ND		ND
	ug/L	09/22/09	1	ND	0.64 J	ND	ND		ND
	ug/L	03/24/10	1	ND	0.90 J	0.52 J	ND		ND
	ug/L	09/22/10	1	ND	ND	ND	ND		ND
	ug/L	03/16/11	1	ND	ND	ND	ND		ND
	ug/L	09/21/11	1	ND	--	0.82 J	ND		ND
	ug/L	03/21/12	1	ND	ND	0.46 J	0.41	J	ND
	ug/L	09/20/12	1	ND	ND	ND	ND		ND
	ug/L	03/20/13	1	ND	ND	ND	ND		ND
	ug/L	09/18/13	1	ND	ND	ND	ND		ND
Trichlorofluoromethane	ug/L	06/21/01	1	ND	ND	ND	ND		--
NC 2L = 2000 ug/L	ug/L	04/24/02	1	ND	ND	ND	ND		--
	ug/L	10/01/02	1	ND	ND	ND	ND		--
	ug/L	04/10/03	1	ND	ND	ND	ND		--
	ug/L	10/20/03	1	ND	ND	ND	ND		--
	ug/L	03/24/04	1	ND	ND	ND	ND		--
	ug/L	10/27/04	1	ND	ND	ND	ND		--
	ug/L	05/25/05	1	ND	ND	ND	ND		--
	ug/L	10/05/05	1	ND	ND	8.07	ND		--
	ug/L	04/25/06	1	ND	ND	ND	23.1		--
	ug/L	10/05/06	1	ND	ND	13.8	ND		ND
	ug/L	03/21/07	1	ND	ND	11.3	ND		ND
	ug/L	10/02/07	1	ND	ND	9.90	0.26	J	ND
	ug/L	04/01/08	1	ND	ND	8.03	3.88		ND
	ug/L	10/29/08	1	ND	ND	6.83	2.71		ND
	ug/L	03/24/09	1	ND	ND	4.3	1.5		ND
	ug/L	09/22/09	1	ND	ND	2.0	ND		ND
	ug/L	03/24/10	1	ND	ND	2.6	1.0		ND
	ug/L	09/22/10	1	ND	ND	2.0	0.87	J	ND
	ug/L	03/16/11	1	ND	ND	1.4	2.5		ND
	ug/L	09/21/11	1	ND	--	0.82 J	1.7		ND
	ug/L	03/21/12	1	ND	ND	0.51 J	ND		ND
	ug/L	09/20/12	1	ND	ND	0.80 J	0.76	J	ND
	ug/L	03/20/13	1	ND	ND	ND	1.1		ND
	ug/L	09/18/13	1	ND	ND	ND	1.3		ND
Vinyl chloride	ug/L	06/21/01	1	ND	ND	ND	ND		--
NC 2L = 0.03 ug/L	ug/L	04/24/02	1	ND	ND	ND	ND		--
	ug/L	10/01/02	1	ND	ND	ND	ND		--
	ug/L	04/10/03	1	ND	ND	ND	ND		--
	ug/L	10/20/03	1	ND	ND	ND	ND		--
	ug/L	03/24/04	1	ND	ND	ND	ND		--
	ug/L	10/27/04	1	ND	ND	ND	ND		--
	ug/L	05/25/05	1	ND	ND	ND	ND		--
	ug/L	10/05/05	1	ND	ND	ND	ND		--
	ug/L	04/25/06	1	ND	ND	ND	ND		--
	ug/L	10/05/06	1	ND	ND	ND	ND		ND
	ug/L	03/21/07	1	ND	ND	ND	ND		ND
	ug/L	10/02/07	1	ND	ND	ND	ND		ND
	ug/L	04/01/08	1	ND	ND	ND	ND		ND
	ug/L	10/29/08	1	ND	ND	0.56 J	ND		ND
	ug/L	03/24/09	1	ND	ND	ND	ND		ND
	ug/L	09/22/09	1	ND	0.55 J	ND	ND		ND
	ug/L	03/24/10	1	ND	ND	ND	ND		ND
	ug/L	09/22/10	1	ND	ND	0.42 J	ND		ND
	ug/L	03/16/11	1	ND	ND	ND	0.64	J	ND
	ug/L	09/21/11	1	ND	--	ND	ND		ND
	ug/L	03/21/12	1	ND	ND	0.45 J	ND		ND
	ug/L	09/20/12	1	ND	ND	0.57 J	0.56	J	ND
	ug/L	03/20/13	1	ND	0.51 J	0.70 J	0.51	J	ND
	ug/L	09/18/13	1	ND	0.83 J	0.79 J	0.72	J	ND

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well		Downgradient Wells						Blanks	
				MW-10		MW-11		MW-12		MW-13			
Xylenes (Total)	ug/L	06/21/01	5	ND		ND		ND		ND		--	
NC 2L = 500 ug/L	ug/L	04/24/02	5	ND		ND		ND		ND		--	
	ug/L	10/01/02	5	ND		ND		ND		ND		--	
	ug/L	04/10/03	5	ND		ND		ND		ND		--	
	ug/L	10/20/03	5	ND		ND		ND		ND		--	
	ug/L	03/24/04	5	ND		ND		ND		ND		--	
	ug/L	10/27/04	5	ND		ND		ND		ND		--	
	ug/L	05/25/05	5	ND		ND		ND		ND		--	
	ug/L	10/05/05	5	ND		ND		ND		ND		--	
	ug/L	04/25/06	5	ND		ND		ND		ND		--	
	ug/L	10/05/06	5	ND		ND		ND		ND		ND	
	ug/L	03/21/07	5	ND		ND		0.17	J	ND		ND	
	ug/L	10/02/07	5	ND		ND		0.17	J	ND		ND	
	ug/L	04/01/08	5	ND		ND		0.28	J	ND		ND	
	ug/L	10/29/08	5	ND		ND		0.25	J	ND		ND	
	ug/L	03/24/09	5	ND		ND		ND		ND		ND	
	ug/L	09/22/09	5	ND		0.72	J	ND		ND		ND	
	ug/L	03/24/10	5	ND		0.62	J	ND		ND		ND	
	ug/L	09/22/10	5	ND		ND		ND		ND		ND	
	ug/L	03/16/11	5	ND		ND		ND		ND		ND	
	ug/L	09/21/11	5	ND		--		ND		ND		ND	
	ug/L	03/21/12	5	ND		ND		ND		ND		ND	
	ug/L	09/20/12	5	ND		ND		ND		ND		ND	
	ug/L	03/20/13	5	ND		ND		ND		ND		ND	
	ug/L	09/18/13	5	ND		ND		ND		ND		ND	
Tetrahydrofuran	ug/L	03/16/11	--	ND		ND		74		7.6		ND	
No Standard	ug/L	09/21/11	--	ND		--		39		8.2		ND	
	ug/L	03/21/12	--	ND		ND		28		17		ND	
	ug/L	09/20/12	--	ND		ND		22		9.1		ND	
	ug/L	03/20/13	--	ND		ND		34	B	9.0	B	21	
	ug/L	09/18/13	--	ND		11		13		3.6		ND	
2,4-D	ug/L	09/21/11	2	ND		--		ND		1.3	J	ND	
NC 2L = 70 ug/L	ug/L	03/21/12	2	ND		ND		ND		0.80	J	ND	
	ug/L	09/20/12	2	ND		ND		ND		ND		ND	
	ug/L	03/20/13	2	ND		ND		ND		1.1	J	ND	
	ug/L	09/18/13	2	ND		ND		ND		1.3	J	ND	
Chloride	mg/L	03/24/09	--	ND		8.8		4.1	J	ND		ND	
NC 2L = 250 mg/L*	mg/L	09/22/09	--	3.1	J	8.1		8.7		3.6	J	ND	
	mg/L	03/24/10	--	ND		1.7	J	7.3		2.5	J	ND	
	mg/L	09/22/10	--	3	J	4.7	J	4.8	J	5.1		ND	
	mg/L	03/16/11	--	3	J	ND	J	8.6		4.8	J	ND	
	mg/L	09/21/11	--	2.6	B	--		17		4.4	B	1.5	J
	mg/L	03/21/12	--	2.3	B	4.2	B	18		4.6	B	1.2	J
	mg/L	09/20/12	--	2.6	B	6.3	B	16		6.3	B	1.5	
	mg/L	03/20/13	--	2.6	B	6.6	B	14		7.3	B	1.5	
	mg/L	09/18/13	--	2.40	J	5.00		13.0		5.90		ND	
Total Dissolved Solids	mg/L	03/24/09	--	86		310		190		140		ND	
NC 2L = 1000 mg/L	mg/L	09/22/09	--	66		280		160		130		ND	
	mg/L	03/24/10	--	22		110		170		140		ND	
	mg/L	09/22/10	--	40		110		160		190		ND	
	mg/L	03/16/11	--	46		ND		160		120		ND	
	mg/L	09/21/11	--	16		--		200		140		ND	
	mg/L	03/21/12	--	18		190		190		140		ND	
	mg/L	09/20/12	--	200		170		120		110		ND	
	mg/L	03/20/13	--	46		270		260		260		ND	
	mg/L	09/18/13	--	ND		110		180		180		ND	
Sulfate as SO4	mg/L	03/24/09	250	1.5	J	150	J	18	J	3.0	J	ND	
NC 2L = 250 mg/L	mg/L	09/22/09	250	1.7	J	100	J	17	J	3.9	J	ND	
	mg/L	03/24/10	250	ND		5.3	J	16	J	2.1	J	ND	
	mg/L	09/22/10	250	ND		4.8	J	5.4	J	4.9	J	ND	
	mg/L	03/16/11	250	1.9	J	ND	J	7.3	J	3.9	J	ND	
	mg/L	09/21/11	250	1.7	B	--		14	J	4.2	B	1.7	J
	mg/L	03/21/12	250	1.5	J	46	J	18	J	6.3	J	ND	
	mg/L	09/20/12	250	1.9	J	66	J	18	J	9.9	J	ND	
	mg/L	03/20/13	250	1.6	J	32	J	16	J	12	J	ND	
	mg/L	09/18/13	250	1.60	B	18.0	J	14.0	J	15.0	J	1.50	J
Total Alkalinity	mg/L	03/24/09	--	17		18		80		65		ND	
No Standard	mg/L	09/22/09	--	12	J	41		76		68		ND	
	mg/L	03/24/10	--	9.6	J	57		76		75		ND	
	mg/L	09/22/10	--	ND		46		86		100		ND	
	mg/L	03/16/11	--	ND		ND		94		96		ND	
	mg/L	09/21/11	--	ND		--		90		90		ND	
	mg/L	03/21/12	--	14	J	51		87		100		ND	
	mg/L	09/20/12	--	19		53		86		100		ND	
	mg/L	03/20/13	--	15		69		96		110		ND	
	mg/L	09/18/13	--	ND		77.0		110		110		ND	

TABLE 4

Summary of Detected Constituents in C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	Upgradient Well	Downgradient Wells			Blanks
				MW-10	MW-11	MW-12	MW-13	
pH (field)	S.U.	03/21/07	--	5.23	5.29	5.52	5.78	--
	S.U.	10/02/07	--	--	--	--	--	--
	S.U.	04/01/08	--	--	--	--	--	--
	S.U.	10/29/08	--	--	--	--	--	--
	S.U.	03/24/09	--	6.78	6.22	6.46	6.84	--
	S.U.	09/22/09	--	7.37	5.41	5.59	5.90	--
	S.U.	03/24/10	--	7.47	5.64	5.90	6.61	--
	S.U.	09/22/10	--	5.80	5.27	5.39	5.81	--
	S.U.	03/16/11	--	5.58	5.48	5.52	5.65	--
	S.U.	09/21/11	--	5.92	--	5.38	5.87	--
	S.U.	03/21/12	--	6.75	5.18	5.47	5.89	--
	S.U.	09/20/12	--	6.34	5.72	5.07	6.16	--
	S.U.	03/20/13	--	5.86	5.37	5.63	5.73	--
	S.U.	09/18/13	--	5.83	5.40	5.76	6.06	--
Conductivity (field)	µS/cm	03/21/07	--	35	73	135	87	--
	µS/cm	10/02/07	--	--	--	--	--	--
	µS/cm	04/01/08	--	--	--	--	--	--
	µS/cm	10/29/08	--	--	--	--	--	--
	µS/cm	03/24/09	--	50	450	150	230	--
	µS/cm	09/22/09	--	58	404	240	156	--
	µS/cm	03/24/10	--	42	170	249	191	--
	µS/cm	09/22/10	--	37	144	230	316	--
	µS/cm	03/16/11	--	46	138	256	220	--
	µS/cm	09/21/11	--	44	--	272	207	--
	µS/cm	03/21/12	--	22	188	292	219	--
	uS/cm	09/20/12	--	44	262	218	215	--
	uS/cm	03/20/13	--	36	213	252	215	--
	uS/cm	09/18/13	--	39	227	309	283	--
Temperature (field)	Celsius	03/21/07	--	14.10	15.50	13.50	13.10	--
	Celsius	10/02/07	--	--	--	--	--	--
	Celsius	04/01/08	--	--	--	--	--	--
	Celsius	10/29/08	--	--	--	--	--	--
	Celsius	03/24/09	--	16.00	14.70	14.10	15.80	--
	Celsius	09/22/09	--	15.68	15.92	14.99	14.90	--
	Celsius	03/24/10	--	13.36	14.12	13.13	12.31	--
	Celsius	09/22/10	--	15.22	15.42	14.36	14.61	--
	Celsius	03/16/11	--	12.28	13.51	12.90	12.73	--
	Celsius	09/21/11	--	13.97	--	15.20	14.38	--
	Celsius	03/21/12	--	14.35	17.52	15.18	16.65	--
	Celsius	09/20/12	--	14.15	17.47	14.45	13.97	--
	Celsius	03/20/13	--	9.27	13.86	12.44	13.00	--
	Celsius	09/18/13	--	13.8	18.9	14.6	14.3	--
Turbidity (field)	NTU	03/24/09	--	76.2	13.8	149	108	--
	NTU	09/22/09	--	20.1	20.4	61.3	37.3	--
	NTU	03/24/10	--	6.36	16.6	51.1	19.7	--
	NTU	09/22/10	--	8.46	5.45	10.3	24.2	--
	NTU	03/16/11	--	21.6	12.1	36.1	17.6	--
	NTU	09/21/11	--	14.6	--	27.6	26.4	--
	NTU	03/21/12	--	45.0	45.8	13.5	27.5	--
	NTU	09/20/12	--	42.3	35.0	32.4	25.2	--
	NTU	03/20/13	--	4.86	11.9	12.2	20.4	--
	NTU	09/18/13	--	>1000	26.5	47.1	81.5	--

Notes:
ug/L = micrograms per liter
mg/L = milligrams per liter
NTU = Nephelometric Turbidity Units
mV = millivolts
S.U. = Standard Units
ND = Not detected at the stated reporting limit
NM = Not measured
J = estimated concentration
B = Blank-qualified result
-- = no data available
* = EPA Maximum Contaminant Level Secondary Standard
Blanks = field, trip and method blanks
Shaded = concentrations above the NC 2L Groundwater Standards or Solid Waste Section Groundwater Protection Standards (SWS GPS) have been shaded.
SWS Reporting Limit = NCPQL or lab-specific reporting limit prior to October 2007 and NCSWSL starting in October 2007
1) Historical data prior to March 2009 provided by Henderson County and CDM.

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Antimony	ug/L	12/05/94	6	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	6	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	6	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	6	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	6	--	--	--	ND	--	--	--
	ug/L	10/24/96	6	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	6	ND	ND	ND	5	--	--	--
	ug/L	10/29/97	6	18	ND	ND	ND	--	--	--
	ug/L	05/14/98	6	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	6	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	6	ND	--	ND	ND	--	--	--
	ug/L	10/29/99	6	ND	--	ND	ND	--	--	--
	ug/L	04/20/00	6	ND	--	ND	ND	--	--	--
	ug/L	11/07/00	6	--	--	ND	ND	--	--	--
	ug/L	10/16/01	6	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	6	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	6	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	6	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	6	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	6	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	6	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	6	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	6	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	6	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	6	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	6	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	6	ND	ND	ND	ND	--	--	ND
	ug/L	10/29/08	6	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	6	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	6	ND	ND	0.521 J	ND	--	--	ND
	ug/L	09/23/10	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	6	ND	ND	ND	ND	--	--	ND
	ug/L	09/21/11	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/12	6	ND	ND	ND	ND	--	--	ND
	ug/L	09/20/12	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/20/13	6	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/13	6	ND	ND	ND	ND	--	--	ND
Arsenic	ug/L	12/05/94	10	ND	ND	ND	ND	--	--	--
SW Standard = 50 ug/L	ug/L	02/14/95	10	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	10	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	10	ND	12	ND	ND	--	--	--
	ug/L	04/08/96	10	--	--	--	ND	--	--	--
	ug/L	10/24/96	10	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	10	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	10	19	ND	ND	ND	--	--	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	10	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	10	ND	--	ND	ND	--	--	--
	ug/L	10/29/99	10	ND	--	ND	ND	--	--	--
	ug/L	04/20/00	10	ND	--	ND	ND	--	--	--
	ug/L	11/07/00	10	--	--	ND	ND	--	--	--
	ug/L	10/16/01	10	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	10	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	10	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	10	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	10	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	10	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	10	ND	ND	11.7	ND	--	--	--
	ug/L	05/25/05	10	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	10	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	10	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	10	ND	ND	0.56 J	1.57 J	--	--	ND
	ug/L	10/02/07	10	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	10	ND	ND	4.8 J	2.52 J	--	--	ND
	ug/L	10/29/08	10	2.5 J	--	4.65 J	4.14 J	--	--	ND
	ug/L	03/24/09	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	10	4.69 B	2.94 B	3.11 B	ND	--	--	2.90 J
	ug/L	03/22/10	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/23/10	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/21/11	10	ND	ND	4.96 J	ND	--	--	ND
	ug/L	03/21/12	10	ND	4.18 J	ND	ND	--	--	ND
	ug/L	09/20/12	10	ND	ND	ND	ND	--	--	3.27 J
	ug/L	03/20/13	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/13	10	ND	ND	ND	ND	--	--	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1		BR-2		BR-3		SW-1		TSW-1	TSW-2	Blanks	
Barium	ug/L	12/05/94	100	ND		ND		ND		ND		--	--	--	
No SW Standard	ug/L	02/14/95	100	131		ND		--		ND		--	--	--	
	ug/L	04/03/95	100	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	100	ND		ND		ND		ND		--	--	--	
	ug/L	04/08/96	100	--		--		--		ND		--	--	--	
	ug/L	10/24/96	100	ND		ND		ND		ND		--	--	--	
	ug/L	04/15/97	100	130		220		ND		ND		--	--	--	
	ug/L	10/29/97	100	400		ND		ND		ND		--	--	--	
	ug/L	05/14/98	100	ND		ND		ND		ND		--	--	--	
	ug/L	11/11/98	100	ND		ND		ND		ND		--	--	--	
	ug/L	06/04/99	100	ND		--		ND		ND		--	--	--	
	ug/L	10/29/99	100	ND		--		ND		ND		--	--	--	
	ug/L	04/20/00	100	ND		--		ND		ND		--	--	--	
	ug/L	11/07/00	100	--		--		ND		ND		--	--	--	
	ug/L	10/16/01	100	ND		--		111		ND		--	--	--	
	ug/L	04/24/02	100	ND		--		ND		ND		--	--	--	
	ug/L	10/01/02	100	ND		--		ND		ND		--	--	--	
	ug/L	04/09/03	100	ND		--		ND		ND		--	--	--	
	ug/L	10/20/03	100	ND		ND		ND		ND		--	--	--	
	ug/L	03/24/04	100	ND		ND		ND		ND		--	--	--	
	ug/L	10/27/04	100	ND		ND		ND		ND		--	--	--	
	ug/L	05/25/05	100	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/05	100	ND		4310		ND		ND		--	--	--	
	ug/L	04/25/06	100	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	100	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	100	22.7	J	193		342		36.3	J	--	--	ND	
	ug/L	10/02/07	100	77.5	B	266		697		42.2	B	--	--	16.1	J
	ug/L	04/03/08	100	64.6	J	171		504		47.9	B	--	--	10.1	J
	ug/L	10/29/08	100	78.6	B	--		732	B	65.1	B	--	--	ND	
	ug/L	03/24/09	100	73.2	J	273		575		42.1	J	--	--	ND	
	ug/L	09/22/09	100	75.6	J	130		253		64.8	J	--	--	ND	
	ug/L	03/22/10	100	62.7	J	144		83.3	J	58.1	J	--	--	1.54	J
	ug/L	09/23/10	100	45.6	J	163		361		26.1	J	--	--	ND	
	ug/L	03/16/11	100	89.8	J	265		199		63.2	J	--	--	ND	
	ug/L	09/21/11	100	65.3	J	200		253		52.5	J	--	--	ND	
	ug/L	03/21/12	100	46.2	J	240		323		38.0	J	--	--	ND	
	ug/L	09/20/12	100	70.1	J	219		439		43.4	J	--	--	ND	
	ug/L	03/20/13	100	41.8	J	171		194		42.0	J	--	--	1.34	J
	ug/L	09/18/13	100	49.8	J	220		162		35.1	J	--	--	1.08	J
Beryllium	ug/L	12/05/94	1	ND		ND		ND		ND		--	--	--	
SW Standard = 6.5 ug/L	ug/L	02/14/95	1	ND		ND		--		ND		--	--	--	
	ug/L	04/03/95	1	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	1	ND		ND		ND		ND		--	--	--	
	ug/L	04/08/96	1	--		--		--		ND		--	--	--	
	ug/L	10/24/96	1	ND		ND		ND		ND		--	--	--	
	ug/L	04/15/97	1	ND		ND		ND		ND		--	--	--	
	ug/L	10/29/97	1	9		ND		ND		ND		--	--	--	
	ug/L	05/14/98	1	ND		ND		ND		ND		--	--	--	
	ug/L	11/11/98	1	ND		ND		ND		ND		--	--	--	
	ug/L	06/04/99	1	ND		--		ND		ND		--	--	--	
	ug/L	10/29/99	1	ND		--		ND		ND		--	--	--	
	ug/L	04/20/00	1	ND		--		ND		ND		--	--	--	
	ug/L	11/07/00	1	--		--		ND		ND		--	--	--	
	ug/L	10/16/01	1	ND		--		ND		ND		--	--	--	
	ug/L	04/24/02	1	ND		--		ND		ND		--	--	--	
	ug/L	10/01/02	1	ND		--		ND		ND		--	--	--	
	ug/L	04/09/03	1	ND		--		ND		ND		--	--	--	
	ug/L	10/20/03	1	ND		ND		ND		ND		--	--	--	
	ug/L	03/24/04	1	ND		ND		ND		ND		--	--	--	
	ug/L	10/27/04	1	ND		ND		ND		ND		--	--	--	
	ug/L	05/25/05	1	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/05	1	ND		4.07		ND		ND		--	--	--	
	ug/L	04/25/06	1	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	1	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	1	ND		ND		ND		ND		--	--	ND	
	ug/L	10/02/07	1	1.97	B	2.28	B	3.9	B	1.97	B	--	--	6.01	
	ug/L	04/03/08	1	1.93		5.01		2.80		2.73		--	--	ND	
	ug/L	10/29/08	1	6.46	B	--		10.2	B	7.9	B	--	--	ND	
	ug/L	03/24/09	1	ND		ND		1.01		ND		--	--	ND	
	ug/L	09/22/09	1	ND		ND		0.656	J	ND		--	--	ND	
	ug/L	03/22/10	1	ND		ND		0.318	J	ND		--	--	ND	
	ug/L	09/23/10	1	ND		ND		0.820	J	ND		--	--	ND	
	ug/L	03/16/11	1	ND		ND		0.543	J	ND		--	--	ND	
	ug/L	09/21/11	1	ND		ND		0.362	J	ND		--	--	ND	
	ug/L	03/21/12	1	ND		ND		0.736	J	ND		--	--	ND	
	ug/L	09/20/12	1	ND		ND		0.694	J	ND		--	--	ND	
	ug/L	03/20/13	1	ND		ND		0.227	J	ND		--	--	ND	
	ug/L	09/18/13	1	ND		ND		ND		ND		--	--	ND	

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Cadmium	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--
SW Standard = 2 ug/L (N)	ug/L	02/14/95	1	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	1	--	--	--	ND	--	--	--
	ug/L	10/24/96	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	1	11	ND	ND	ND	--	--	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	1	ND	--	ND	ND	--	--	--
	ug/L	10/29/99	1	ND	--	ND	ND	--	--	--
	ug/L	04/20/00	1	1.5	--	1.7	1.2	--	--	--
	ug/L	11/07/00	1	--	--	ND	ND	--	--	--
	ug/L	10/16/01	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	1	1.5	--	1.2	1.5	--	--	--
	ug/L	10/01/02	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	1	ND	111	ND	ND	--	--	--
	ug/L	04/25/06	1	ND	ND	1.15	1.03	--	--	--
	ug/L	10/04/06	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	1	1.42 J	2.71 J	1.36 J	0.51 J	--	--	ND
	ug/L	10/02/07	1	ND	ND	1.31	ND	--	--	ND
	ug/L	04/03/08	1	ND	ND	1.1	ND	--	--	ND
	ug/L	10/29/08	1	ND	--	1.83	ND	--	--	ND
	ug/L	03/24/09	1	ND	ND	1.12	ND	--	--	ND
	ug/L	09/22/09	1	ND	ND	0.716 J	ND	--	--	ND
	ug/L	03/22/10	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/23/10	1	ND	ND	0.487 J	ND	--	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/12	1	ND	ND	0.468 J	ND	--	--	ND
	ug/L	09/20/12	1	ND	ND	0.691 J	ND	--	--	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/13	1	ND	ND	ND	ND	--	--	ND
Chromium	ug/L	12/05/94	10	ND	ND	ND	ND	--	--	--
SW Standard = 50 ug/L	ug/L	02/14/95	10	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	10	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	10	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	10	--	--	--	ND	--	--	--
	ug/L	10/24/96	10	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	10	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	10	10	1	ND	ND	--	--	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	10	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	10	ND	--	ND	ND	--	--	--
	ug/L	10/29/99	10	ND	--	ND	ND	--	--	--
	ug/L	04/20/00	10	ND	--	ND	ND	--	--	--
	ug/L	11/07/00	10	--	--	ND	ND	--	--	--
	ug/L	10/16/01	10	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	10	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	10	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	10	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	10	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	10	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	10	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	10	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	10	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	10	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	10	1.44 J	3.02 J	2.38 J	2.86 J	--	--	ND
	ug/L	10/02/07	10	5.39 B	5.08 B	4.58 B	4.07 B	--	--	3.67 J
	ug/L	04/03/08	10	5.05 B	4.06 B	4.06 B	3.31 B	--	--	2.94 J
	ug/L	10/29/08	10	6.96 B	--	6.34 B	6.10 B	--	--	ND
	ug/L	03/24/09	10	2.0 J	3.4 J	1.9 J	1.4 J	--	--	ND
	ug/L	09/22/09	10	ND	1.83 J	ND	ND	--	--	ND
	ug/L	03/22/10	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/23/10	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	10	2.21 J	3.97 J	2.42 J	1.64 J	--	--	ND
	ug/L	09/21/11	10	1.29 J	3.44 J	1.78 J	1.06 J	--	--	ND
	ug/L	03/21/12	10	1.39 J	2.21 J	2.19 J	1.10 J	--	--	ND
	ug/L	09/20/12	10	ND	1.93 J	1.38 J	ND	--	--	ND
	ug/L	03/20/13	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/13	10	ND	1.92 J	ND	ND	--	--	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1		BR-2		BR-3		SW-1		TSW-1	TSW-2	Blanks	
Cobalt	ug/L	12/05/94	10	ND		ND		ND		ND		--	--	--	
No SW Standard	ug/L	02/14/95	10	11		ND		--		ND		--	--	--	
	ug/L	04/03/95	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/08/96	10	--		--		--		ND		--	--	--	
	ug/L	10/24/96	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/15/97	10	4		1		ND		ND		--	--	--	
	ug/L	10/29/97	10	--		--		--		--		--	--	--	
	ug/L	05/14/98	10	ND		ND		ND		ND		--	--	--	
	ug/L	11/11/98	10	ND		ND		ND		ND		--	--	--	
	ug/L	06/04/99	10	ND		--		ND		ND		--	--	--	
	ug/L	10/29/99	10	ND		--		ND		ND		--	--	--	
	ug/L	04/20/00	10	ND		--		ND		ND		--	--	--	
	ug/L	11/07/00	10	--		--		ND		ND		--	--	--	
	ug/L	10/16/01	10	ND		--		ND		ND		--	--	--	
	ug/L	04/24/02	10	ND		--		10.7		ND		--	--	--	
	ug/L	10/01/02	10	ND		--		10.7		ND		--	--	--	
	ug/L	04/09/03	10	ND		--		ND		ND		--	--	--	
	ug/L	10/20/03	10	ND		ND		ND		ND		--	--	--	
	ug/L	03/24/04	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/27/04	10	ND		ND		ND		ND		--	--	--	
	ug/L	05/25/05	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/05	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/25/06	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	10	2.52	J	3.56	J	4.76	J	ND		--	--	ND	
	ug/L	10/02/07	10	ND		ND		ND		ND		--	--	ND	
	ug/L	04/03/08	10	ND		5.32	J	3.66	J	ND		--	--	ND	
	ug/L	10/29/08	10	7.54	J	--		7.90	J	ND		--	--	ND	
	ug/L	03/24/09	10	3.9	J	4.8	J	4.8	J	1.0	J	--	--	ND	
	ug/L	09/22/09	10	1.21	J	5.16	J	1.90	J	ND		--	--	ND	
	ug/L	03/22/10	10	3.17	J	6.20	J	1.39	J	2.71	J	--	--	ND	
	ug/L	09/23/10	10	2.38	J	5.61	J	3.38	J	ND		--	--	ND	
	ug/L	03/16/11	10	1.94	J	5.87	J	1.82	J	1.85	J	--	--	ND	
	ug/L	09/21/11	10	3.22	J	9.89	J	3.13	J	2.29	J	--	--	ND	
	ug/L	03/21/12	10	2.44	J	8.93	J	2.84	J	1.71	J	--	--	ND	
	ug/L	09/20/12	10	2.52	J	8.43	J	3.31	J	1.12	J	--	--	ND	
	ug/L	03/20/13	10	1.77	J	3.49	J	2.03	J	ND		--	--	ND	
	ug/L	09/18/13	10	3.01	J	3.55	J	1.19	J	1.19	J	--	--	ND	
Copper	ug/L	12/05/94	10	ND		ND		ND		ND		--	--	--	
SW Standard = 7 ug/L (AL)	ug/L	02/14/95	10	ND		ND		--		ND		--	--	--	
	ug/L	04/03/95	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/08/96	10	--		--		--		ND		--	--	--	
	ug/L	10/24/96	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/15/97	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/29/97	10	ND		--		ND		ND		--	--	--	
	ug/L	05/14/98	10	ND		ND		ND		ND		--	--	--	
	ug/L	11/11/98	10	ND		ND		ND		ND		--	--	--	
	ug/L	06/04/99	10	ND		--		ND		ND		--	--	--	
	ug/L	10/29/99	10	ND		--		ND		ND		--	--	--	
	ug/L	04/20/00	10	ND		--		ND		ND		--	--	--	
	ug/L	11/07/00	10	--		--		ND		ND		--	--	--	
	ug/L	10/16/01	10	ND		--		ND		ND		--	--	--	
	ug/L	04/24/02	10	ND		--		ND		ND		--	--	--	
	ug/L	10/01/02	10	ND		--		ND		ND		--	--	--	
	ug/L	04/09/03	10	ND		--		ND		ND		--	--	--	
	ug/L	10/20/03	10	ND		ND		ND		ND		--	--	--	
	ug/L	03/24/04	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/27/04	10	ND		ND		ND		ND		--	--	--	
	ug/L	05/25/05	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/05	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/25/06	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	10	4.32	J	4.93	J	3.97	J	4.23	J	--	--	ND	
	ug/L	10/02/07	10	5.94	B	6.24	B	5.64	B	6.01	B	--	--	6.41	J
	ug/L	04/03/08	10	4.96	B	4.27	B	4.53	B	5.38	B	--	--	4.46	J
	ug/L	10/29/08	10	6.95	B	--		5.85	B	10.3	B	--	--	ND	
	ug/L	03/24/09	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/22/09	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/22/10	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/23/10	10	ND		ND		2.15	J	ND		--	--	ND	
	ug/L	03/16/11	10	9.17	J	ND		4.73	J	2.13	J	--	--	ND	
	ug/L	09/21/11	10	ND		3.90	J	2.35	J	ND		--	--	ND	
	ug/L	03/21/12	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/20/12	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/20/13	10	ND		ND		1.60	J	ND		--	--	ND	
	ug/L	09/18/13	10	5.72	J	ND		ND		ND		--	--	ND	

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1		BR-2		BR-3		SW-1		TSW-1	TSW-2	Blanks	
Lead	ug/L	12/05/94	10	ND		38		8		7		--	--	--	
SW Standard = 25 ug/L (N)	ug/L	02/14/95	10	ND		5		--		7		--	--	--	
	ug/L	04/03/95	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/08/96	10	--		--		--		ND		--	--	--	
	ug/L	10/24/96	10	ND		110		ND		ND		--	--	--	
	ug/L	04/15/97	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/29/97	10	28		ND		ND		ND		--	--	--	
	ug/L	05/14/98	10	ND		ND		ND		ND		--	--	--	
	ug/L	11/11/98	10	ND		ND		ND		ND		--	--	--	
	ug/L	06/04/99	10	ND		--		ND		ND		--	--	--	
	ug/L	10/29/99	10	ND		--		ND		ND		--	--	--	
	ug/L	04/20/00	10	ND		--		ND		ND		--	--	--	
	ug/L	11/07/00	10	--		--		ND		ND		--	--	--	
	ug/L	10/16/01	10	ND		--		ND		ND		--	--	--	
	ug/L	04/24/02	10	ND		--		ND		ND		--	--	--	
	ug/L	10/01/02	10	ND		--		ND		ND		--	--	--	
	ug/L	04/09/03	10	18.5		--		ND		ND		--	--	--	
	ug/L	10/20/03	10	ND		ND		ND		ND		--	--	--	
	ug/L	03/24/04	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/27/04	10	ND		ND		11.6		ND		--	--	--	
	ug/L	05/25/05	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/05	10	ND		242		ND		ND		--	--	--	
	ug/L	04/25/06	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	10	ND		1.56	J	ND		ND		--	--	ND	
	ug/L	10/02/07	10	0.49	B	0.65	B	0.46	B	0.49	B	--	--	0.49	J
	ug/L	04/03/08	10	5.13	J	7.36	J	ND		ND		--	--	ND	
	ug/L	10/29/08	10	6.36	B	--		7.18	B	10.1	B	--	--	ND	
	ug/L	03/24/09	10	2.8	J	3.9	J	3.8	J	2.1	J	--	--	ND	
	ug/L	09/22/09	10	ND		2.33	J	ND		ND		--	--	ND	
	ug/L	03/22/10	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/23/10	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/16/11	10	4.31	J	2.33	J	3.29	J	ND		--	--	ND	
	ug/L	09/21/11	10	ND		8.03	J	2.33	J	ND		--	--	ND	
	ug/L	03/21/12	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/20/12	10	3.64	B	ND		2.28	B	3.19	B	--	--	2.70	J
	ug/L	03/20/13	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/18/13	10	ND		ND		ND		ND		--	--	ND	
Nickel	ug/L	12/05/94	50	ND		ND		ND		ND		--	--	--	
SW Standard = 88 ug/L (N)	ug/L	02/14/95	50	ND		ND		--		ND		--	--	--	
	ug/L	04/03/95	50	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	50	ND		ND		ND		ND		--	--	--	
	ug/L	04/08/96	50	--		--		--		ND		--	--	--	
	ug/L	10/24/96	50	ND		ND		ND		ND		--	--	--	
	ug/L	04/15/97	50	ND		ND		ND		ND		--	--	--	
	ug/L	10/29/97	50	ND		--		ND		ND		--	--	--	
	ug/L	05/14/98	50	ND		ND		ND		ND		--	--	--	
	ug/L	11/11/98	50	ND		ND		ND		ND		--	--	--	
	ug/L	06/04/99	50	ND		--		ND		ND		--	--	--	
	ug/L	10/29/99	50	ND		--		ND		ND		--	--	--	
	ug/L	04/20/00	50	ND		--		ND		ND		--	--	--	
	ug/L	11/07/00	50	--		--		ND		ND		--	--	--	
	ug/L	10/16/01	50	ND		--		ND		ND		--	--	--	
	ug/L	04/24/02	50	ND		--		ND		ND		--	--	--	
	ug/L	10/01/02	50	ND		--		ND		ND		--	--	--	
	ug/L	04/09/03	50	ND		--		ND		ND		--	--	--	
	ug/L	10/20/03	50	ND		ND		ND		ND		--	--	--	
	ug/L	03/24/04	50	ND		ND		ND		ND		--	--	--	
	ug/L	10/27/04	50	ND		ND		ND		ND		--	--	--	
	ug/L	05/25/05	50	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/05	50	ND		ND		ND		ND		--	--	--	
	ug/L	04/25/06	50	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	50	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	50	0.61	J	ND		5.04	J	ND		--	--	ND	
	ug/L	10/02/07	50	2.25	B	3.79	B	7.68	J	1.67	B	--	--	0.8	J
	ug/L	04/03/08	50	ND		ND		ND		ND		--	--	ND	
	ug/L	10/29/08	50	ND		--		8.09	J	ND		--	--	ND	
	ug/L	03/24/09	50	2.0	J	2.5	J	4.2	J	1.0	J	--	--	ND	
	ug/L	09/22/09	50	2.17	J	3.90	J	2.65	J	ND		--	--	ND	
	ug/L	03/22/10	50	ND		3.21	J	ND		ND		--	--	ND	
	ug/L	09/23/10	50	ND		2.24	J	ND		ND		--	--	ND	
	ug/L	03/16/11	50	2.92	J	ND		2.04	J	ND		--	--	ND	
	ug/L	09/21/11	50	ND		2.97	J	2.71	J	ND		--	--	ND	
	ug/L	03/21/12	50	ND		2.31	J	2.51	J	ND		--	--	ND	
	ug/L	09/20/12	50	ND		1.82	J	2.80	J	ND		--	--	ND	
	ug/L	03/20/13	50	ND		ND		2.04	J	ND		--	--	ND	
	ug/L	09/18/13	50	ND		2.51	J	ND		ND		--	--	ND	

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1		BR-2		BR-3		SW-1		TSW-1	TSW-2	Blanks	
Selenium	ug/L	12/05/94	10	ND		ND		ND		ND		--	--	--	
SW Standard = 5 ug/L	ug/L	02/14/95	10	ND		ND		--		ND		--	--	--	
	ug/L	04/03/95	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/08/96	10	--		--		--		ND		--	--	--	
	ug/L	10/24/96	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/15/97	10	18		ND		ND		8		--	--	--	
	ug/L	10/29/97	10	26		--		ND		ND		--	--	--	
	ug/L	05/14/98	10	ND		ND		ND		ND		--	--	--	
	ug/L	11/11/98	10	ND		ND		ND		ND		--	--	--	
	ug/L	06/04/99	10	ND		--		ND		ND		--	--	--	
	ug/L	10/29/99	10	ND		--		ND		ND		--	--	--	
	ug/L	04/20/00	10	ND		--		ND		ND		--	--	--	
	ug/L	11/07/00	10	--		--		ND		ND		--	--	--	
	ug/L	10/16/01	10	ND		--		10		ND		--	--	--	
	ug/L	04/24/02	10	ND		--		ND		ND		--	--	--	
	ug/L	10/01/02	10	ND		--		ND		ND		--	--	--	
	ug/L	04/09/03	10	ND		--		ND		ND		--	--	--	
	ug/L	10/20/03	10	ND		ND		ND		ND		--	--	--	
	ug/L	03/24/04	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/27/04	10	ND		ND		ND		ND		--	--	--	
	ug/L	05/25/05	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/05	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/25/06	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	10	ND		ND		ND		ND		--	--	ND	
	ug/L	10/02/07	10	10.4		8.22	J	ND		9.83	J	--	--	ND	
	ug/L	04/03/08	10	ND		7.73	J	7.75	J	8.67	J	--	--	ND	
	ug/L	10/29/08	10	ND		--		ND		ND		--	--	ND	
	ug/L	03/24/09	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/22/09	10	3.17	B	ND		ND		6.01	B	--	--	6.41	J
	ug/L	03/22/10	10	ND		2.75	J	ND		ND		--	--	ND	
	ug/L	09/23/10	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/16/11	10	ND		ND		ND		3.09	B	--	--	3.32	J
	ug/L	09/21/11	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/12	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/20/12	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/20/13	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/18/13	10	ND		ND		ND		ND		--	--	ND	
Silver	ug/L	12/05/94	10	ND		ND		ND		ND		--	--	--	
SW Standard = 0.06 ug/L (AL)	ug/L	02/14/95	10	ND		ND		--		ND		--	--	--	
	ug/L	04/03/95	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/08/96	10	--		--		--		ND		--	--	--	
	ug/L	10/24/96	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/15/97	10	ND		0.2		ND		0.3		--	--	--	
	ug/L	10/29/97	10	2		--		ND		ND		--	--	--	
	ug/L	05/14/98	10	ND		ND		ND		ND		--	--	--	
	ug/L	11/11/98	10	ND		ND		ND		ND		--	--	--	
	ug/L	06/04/99	10	ND		--		ND		ND		--	--	--	
	ug/L	10/29/99	10	ND		--		ND		ND		--	--	--	
	ug/L	04/20/00	10	ND		--		ND		ND		--	--	--	
	ug/L	11/07/00	10	--		--		ND		ND		--	--	--	
	ug/L	10/16/01	10	ND		--		ND		ND		--	--	--	
	ug/L	04/24/02	10	ND		--		ND		ND		--	--	--	
	ug/L	10/01/02	10	ND		--		ND		ND		--	--	--	
	ug/L	04/09/03	10	ND		--		ND		ND		--	--	--	
	ug/L	10/20/03	10	ND		ND		ND		ND		--	--	--	
	ug/L	03/24/04	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/27/04	10	ND		ND		ND		ND		--	--	--	
	ug/L	05/25/05	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/05	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/25/06	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	10	1.32	J	1.01	J	0.97	J	0.99	J	--	--	ND	
	ug/L	10/02/07	10	ND		1.55	J	1.25	J	ND		--	--	ND	
	ug/L	04/03/08	10	1.03	J	1.41	J	1.64	J	1.25	J	--	--	ND	
	ug/L	10/29/08	10	6.03	B	--		5.77	B	5.32	B	--	--	ND	
	ug/L	03/24/09	10	1.3	J	2.5	J	2.4	J	1.3	J	--	--	ND	
	ug/L	09/22/09	10	ND		2.23	J	ND		ND		--	--	ND	
	ug/L	03/22/10	10	ND		2.89	J	ND		ND		--	--	ND	
	ug/L	09/23/10	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/16/11	10	ND		2.81	J	ND		ND		--	--	ND	
	ug/L	09/21/11	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/12	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/20/12	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/20/13	10	1.94	B	2.72	B	ND		ND		--	--	2.11	J
	ug/L	09/18/13	10	ND		ND		ND		ND		--	--	ND	

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Thallium	ug/L	12/05/94	5.5	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	5.5	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	5.5	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	5.5	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	5.5	--	--	--	ND	--	--	--
	ug/L	10/24/96	5.5	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	5.5	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	5.5	206	1	2	1	--	--	--
	ug/L	05/14/98	5.5	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	5.5	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	5.5	ND	--	ND	ND	--	--	--
	ug/L	10/29/99	5.5	ND	--	ND	ND	--	--	--
	ug/L	04/20/00	5.5	ND	--	ND	ND	--	--	--
	ug/L	11/07/00	5.5	--	--	ND	ND	--	--	--
	ug/L	10/16/01	5.5	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	5.5	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	5.5	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	5.5	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	5.5	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	5.5	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	5.5	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	5.5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	5.5	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	5.5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	10/29/08	5.5	7.25	--	ND	ND	--	--	ND
	ug/L	03/24/09	5.5	ND	ND	ND	ND	--	--	0.092 J
	ug/L	09/22/09	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	09/23/10	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	5.5	0.465 J	0.415 J	0.192 J	0.675 J	--	--	ND
	ug/L	09/21/11	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/12	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	09/20/12	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	03/20/13	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/13	5.5	ND	ND	ND	ND	--	--	0.142 J
Vanadium	ug/L	12/05/94	25	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	25	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	25	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	25	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	25	--	--	--	ND	--	--	--
	ug/L	10/24/96	25	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	25	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	25	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	25	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	25	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	25	ND	--	ND	ND	--	--	--
	ug/L	10/29/99	25	ND	--	ND	ND	--	--	--
	ug/L	04/20/00	25	ND	--	ND	ND	--	--	--
	ug/L	11/07/00	25	--	--	ND	ND	--	--	--
	ug/L	10/16/01	25	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	25	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	25	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	25	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	25	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	25	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	25	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	25	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	25	ND	60.5	ND	ND	--	--	--
	ug/L	04/25/06	25	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	25	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	25	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	25	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	25	ND	4.61 J	ND	ND	--	--	ND
	ug/L	10/29/08	25	ND	--	2.04 J	2.59 J	--	--	ND
	ug/L	03/24/09	25	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	25	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	25	ND	ND	ND	ND	--	--	ND
	ug/L	09/23/10	25	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	25	4.70 J	ND	ND	ND	--	--	ND
	ug/L	09/21/11	25	ND	8.61 J	ND	ND	--	--	ND
	ug/L	03/21/12	25	ND	ND	ND	ND	--	--	ND
	ug/L	09/20/12	25	ND	ND	ND	ND	--	--	ND
	ug/L	03/20/13	25	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/13	25	ND	ND	ND	ND	--	--	0.142 J

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Zinc	ug/L	12/05/94	10	16	27	26	40	--	--	--
SW Standard = 50 ug/L (AL)	ug/L	02/14/95	10	30	300	--	71	--	--	--
	ug/L	04/03/95	10	10	ND	21	51	--	--	--
	ug/L	10/30/95	10	ND	11	31	ND	--	--	--
	ug/L	04/08/96	10	--	--	--	40	--	--	--
	ug/L	10/24/96	10	28	ND	16	13	--	--	--
	ug/L	04/15/97	10	20	20	40	30	--	--	--
	ug/L	10/29/97	10	20	ND	ND	ND	--	--	--
	ug/L	05/14/98	10	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	10	ND	ND	144	ND	--	--	--
	ug/L	06/04/99	10	ND	--	118	ND	--	--	--
	ug/L	10/29/99	10	ND	--	ND	ND	--	--	--
	ug/L	04/20/00	10	ND	--	394	ND	--	--	--
	ug/L	11/07/00	10	--	--	ND	ND	--	--	--
	ug/L	10/16/01	10	ND	--	26	ND	--	--	--
	ug/L	04/24/02	10	ND	--	132	ND	--	--	--
	ug/L	10/01/02	10	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	10	82.7	--	ND	63	--	--	--
	ug/L	10/20/03	10	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	10	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	10	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	10	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	10	ND	487	ND	ND	--	--	--
	ug/L	04/25/06	10	ND	ND	107	ND	--	--	--
	ug/L	10/04/06	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	10	6.76 J	9.01 J	37	8.63 J	--	--	ND
	ug/L	10/02/07	10	5.22 J	15.3 J	24.4	24	--	--	ND
	ug/L	04/03/08	10	6.29 J	5.45 J	52.5	10.6	--	--	ND
	ug/L	10/29/08	10	9.19 J	--	37.6	29.4	--	--	ND
	ug/L	03/24/09	10	5.5 B	5.6 B	35.6	3.6 B	--	--	3.4 J
	ug/L	09/22/09	10	9.11 J	8.90 J	71.4	11.3	--	--	ND
	ug/L	03/22/10	10	11.4	6.16 J	24.9	9.02 J	--	--	ND
	ug/L	09/23/10	10	ND	4.03 J	46.1	18.8	--	--	ND
	ug/L	03/16/11	10	30.6	5.84 J	53.8	8.11 J	--	--	ND
	ug/L	09/21/11	10	6.85 J	22.1	69.0	ND	--	--	ND
	ug/L	03/21/12	10	ND	ND	22.7	ND	--	--	ND
	ug/L	09/20/12	10	ND	5.00 J	19.4	ND	--	--	ND
	ug/L	03/20/13	10	ND	6.72 J	35.9	ND	--	--	ND
	ug/L	09/18/13	10	9.22 J	4.03 J	12.5	ND	--	--	ND
Acetone	ug/L	12/05/94	100	ND	ND	ND	ND	--	--	--
SW Standard = 2000 ug/L	ug/L	02/14/95	100	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	100	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	100	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	100	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	100	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	100	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	100	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	100	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	100	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	100	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	100	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	100	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	100	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	100	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	100	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	100	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	100	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	100	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	100	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	100	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	100	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	100	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	100	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	100	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	100	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	100	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	100	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	100	3.51 B	1.73 B	ND	ND	--	--	5.5 J
	ug/L	04/03/08	100	ND	ND	ND	ND	--	--	ND
	ug/L	10/29/08	100	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	100	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	100	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	100	2.3 J	ND	ND	2.5 J	--	--	ND
	ug/L	06/03/10	100	--	--	--	--	11 J	3.6 J	ND
	ug/L	09/23/10	100	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	100	ND	4.2 J	3.0 J	ND	13 J	ND	ND
	ug/L	09/21/11	100	ND	7.0 J	ND	ND	5.5 J	ND	ND
	ug/L	03/21/12	100	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	100	ND	7.4 B	ND	ND	dry	4.7 B	7.0 J
	ug/L	03/20/13	100	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	100	ND	ND	ND	ND	dry	ND	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1		BR-2		BR-3	SW-1	TSW-1	TSW-2	Blanks	
Benzene	ug/L	12/05/94	1	ND		ND		ND	ND	--	--	--	
No SW Standard	ug/L	02/14/95	1	ND		ND		ND	ND	--	--	--	
	ug/L	04/03/95	1	ND		ND		ND	ND	--	--	--	
	ug/L	10/30/95	1	ND		ND		ND	ND	--	--	--	
	ug/L	04/08/96	1	--		ND		ND	ND	--	--	--	
	ug/L	05/29/96	1	--		ND		ND	ND	--	--	--	
	ug/L	06/06/96	1	--		ND		ND	ND	--	--	--	
	ug/L	10/24/96	1	ND		ND		ND	ND	--	--	--	
	ug/L	04/15/97	1	ND		ND		ND	ND	--	--	--	
	ug/L	10/29/97	1	ND		ND		ND	ND	--	--	--	
	ug/L	05/14/98	1	ND		ND		ND	ND	--	--	--	
	ug/L	11/11/98	1	ND		ND		ND	ND	--	--	--	
	ug/L	06/04/99	1	ND		ND		ND	ND	--	--	--	
	ug/L	10/29/99	1	ND		ND		ND	ND	--	--	--	
	ug/L	04/20/00	1	ND		ND		ND	ND	--	--	--	
	ug/L	11/07/00	1	ND		ND		ND	ND	--	--	--	
	ug/L	10/16/01	1	ND		--		ND	ND	--	--	--	
	ug/L	04/24/02	1	ND		--		ND	ND	--	--	--	
	ug/L	10/01/02	1	ND		--		ND	ND	--	--	--	
	ug/L	04/09/03	1	ND		--		ND	ND	--	--	--	
	ug/L	10/20/03	1	ND		ND		ND	ND	--	--	--	
	ug/L	03/24/04	1	ND		ND		ND	ND	--	--	--	
	ug/L	10/27/04	1	ND		ND		ND	ND	--	--	--	
	ug/L	05/25/05	1	ND		ND		ND	ND	--	--	--	
	ug/L	10/04/05	1	ND		ND		ND	ND	--	--	--	
	ug/L	04/25/06	1	ND		ND		ND	ND	--	--	--	
	ug/L	10/04/06	1	ND		ND		ND	ND	--	--	ND	
	ug/L	03/21/07	1	ND		0.86	J	ND	ND	--	--	ND	
	ug/L	10/02/07	1	0.16	J	0.76	J	ND	ND	--	--	ND	
	ug/L	04/03/08	1	ND		0.39	J	ND	ND	--	--	ND	
	ug/L	10/29/08	1	0.12	J	--		ND	ND	--	--	ND	
	ug/L	03/24/09	1	ND		ND		ND	ND	--	--	ND	
	ug/L	09/22/09	1	ND		ND		ND	ND	--	--	ND	
	ug/L	03/22/10	1	ND		ND		ND	ND	--	--	ND	
	ug/L	06/03/10	1	--		--		--	--	ND	ND	ND	
	ug/L	09/23/10	1	ND		ND		ND	ND	--	--	ND	
	ug/L	03/16/11	1	ND		ND		ND	ND	ND	ND	ND	
	ug/L	09/21/11	1	ND		ND		ND	ND	ND	ND	ND	
	ug/L	03/21/12	1	ND		0.46	J	ND	ND	dry	ND	ND	
	ug/L	09/20/12	1	ND		ND		ND	ND	dry	ND	ND	
	ug/L	03/20/13	1	ND		ND		ND	ND	dry	ND	ND	
	ug/L	09/18/13	1	ND		ND		ND	ND	dry	ND	1.75	J
Chlorobenzene	ug/L	12/05/94	3	ND		ND		ND	ND	--	--	--	
SW Standard = 140 ug/L	ug/L	02/14/95	3	ND		ND		ND	ND	--	--	--	
	ug/L	04/03/95	3	ND		ND		ND	ND	--	--	--	
	ug/L	10/30/95	3	ND		ND		ND	ND	--	--	--	
	ug/L	04/08/96	3	--		ND		ND	ND	--	--	--	
	ug/L	05/29/96	3	--		ND		ND	ND	--	--	--	
	ug/L	06/06/96	3	--		ND		ND	ND	--	--	--	
	ug/L	10/24/96	3	ND		ND		ND	ND	--	--	--	
	ug/L	04/15/97	3	ND		ND		ND	ND	--	--	--	
	ug/L	10/29/97	3	ND		ND		ND	ND	--	--	--	
	ug/L	05/14/98	3	ND		ND		ND	ND	--	--	--	
	ug/L	11/11/98	3	ND		ND		ND	ND	--	--	--	
	ug/L	06/04/99	3	ND		ND		ND	ND	--	--	--	
	ug/L	10/29/99	3	ND		ND		ND	ND	--	--	--	
	ug/L	04/20/00	3	ND		ND		ND	ND	--	--	--	
	ug/L	11/07/00	3	ND		ND		ND	ND	--	--	--	
	ug/L	10/16/01	3	ND		--		ND	ND	--	--	--	
	ug/L	04/24/02	3	ND		--		ND	ND	--	--	--	
	ug/L	10/01/02	3	ND		--		ND	ND	--	--	--	
	ug/L	04/09/03	3	ND		--		ND	ND	--	--	--	
	ug/L	10/20/03	3	ND		ND		ND	ND	--	--	--	
	ug/L	03/24/04	3	ND		ND		ND	ND	--	--	--	
	ug/L	10/27/04	3	ND		ND		ND	ND	--	--	--	
	ug/L	05/25/05	3	ND		ND		ND	ND	--	--	--	
	ug/L	10/04/05	3	ND		ND		ND	ND	--	--	--	
	ug/L	04/25/06	3	ND		ND		ND	ND	--	--	--	
	ug/L	10/04/06	3	ND		ND		ND	ND	--	--	ND	
	ug/L	03/21/07	3	ND		1.69		ND	ND	--	--	ND	
	ug/L	10/02/07	3	0.86	J	2.2	J	ND	ND	--	--	ND	
	ug/L	04/03/08	3	0.43	J	1.22	J	ND	ND	--	--	ND	
	ug/L	10/29/08	3	0.86	J	--		ND	ND	--	--	ND	
	ug/L	03/24/09	3	0.53	J	0.72	J	ND	ND	--	--	ND	
	ug/L	09/22/09	3	ND		1.0	J	ND	ND	--	--	ND	
	ug/L	03/22/10	3	ND		0.77	J	ND	ND	--	--	ND	
	ug/L	06/03/10	3	--		--		--	--	ND	ND	ND	
	ug/L	09/23/10	3	0.42	J	0.79	J	ND	ND	--	--	ND	
	ug/L	03/16/11	3	ND		1.1	J	ND	ND	ND	ND	ND	
	ug/L	09/21/11	3	ND		ND		ND	ND	ND	ND	ND	
	ug/L	03/21/12	3	ND		2.2	J	ND	ND	dry	ND	ND	
	ug/L	09/20/12	3	ND		ND		ND	ND	dry	ND	ND	
	ug/L	03/20/13	3	ND		0.46	J	ND	ND	dry	ND	ND	
	ug/L	09/18/13	3	ND		0.55	J	ND	ND	dry	ND	ND	

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Dibromochloromethane	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	1	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	1	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	1	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	1	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	1	ND	ND	ND	0.14 J	--	--	ND
	ug/L	10/29/08	1	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	3	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	3	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	3	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	3	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	3	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	3	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	3	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	3	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	3	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	3	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	3	ND	ND	ND	ND	dry	ND	ND
1,2-Dichlorobenzene	ug/L	12/05/94	5	ND	ND	ND	ND	--	--	--
SW Standard = 470 ug/L	ug/L	02/14/95	5	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	5	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	5	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	5	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	5	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	5	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	5	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	5	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	5	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	5	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	5	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	5	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	5	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	5	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	5	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	5	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	5	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	5	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	5	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	5	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	5	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	5	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	5	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	5	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	5	0.27 J	0.23 J	ND	ND	--	--	ND
	ug/L	04/03/08	5	0.12 J	ND	ND	ND	--	--	ND
	ug/L	10/29/08	5	0.28 J	--	ND	ND	--	--	ND
	ug/L	03/24/09	5	ND	0.49 J	ND	ND	--	--	ND
	ug/L	09/22/09	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	5	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	5	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	5	ND	0.79 J	ND	ND	ND	ND	ND
	ug/L	09/21/11	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	5	ND	0.51 J	ND	ND	dry	ND	ND
	ug/L	09/20/12	5	ND	0.59 J	ND	ND	dry	ND	ND
	ug/L	03/20/13	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	5	ND	0.48 J	ND	ND	dry	ND	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1		BR-2		BR-3		SW-1		TSW-1	TSW-2	Blanks
1,4-Dichlorobenzene	ug/L	12/05/94	1	ND		ND		ND		--		--	--	--
SW Standard = 100 ug/L	ug/L	02/14/95	1	ND		ND		ND		--		--	--	--
	ug/L	04/03/95	1	ND		ND		ND		--		--	--	--
	ug/L	10/30/95	1	ND		ND		ND		ND		--	--	--
	ug/L	04/08/96	1	--		ND		ND		--		--	--	--
	ug/L	05/29/96	1	--		ND		ND		--		--	--	--
	ug/L	06/06/96	1	--		ND		ND		--		--	--	--
	ug/L	10/24/96	1	ND		ND		ND		ND		--	--	--
	ug/L	04/15/97	1	ND		ND		ND		ND		--	--	--
	ug/L	10/29/97	1	ND		ND		ND		ND		--	--	--
	ug/L	05/14/98	1	ND		ND		ND		ND		--	--	--
	ug/L	11/11/98	1	ND		ND		ND		ND		--	--	--
	ug/L	06/04/99	1	ND		ND		ND		ND		--	--	--
	ug/L	10/29/99	1	ND		ND		ND		ND		--	--	--
	ug/L	04/20/00	1	ND		ND		ND		ND		--	--	--
	ug/L	11/07/00	1	ND		ND		ND		ND		--	--	--
	ug/L	10/16/01	1	ND		--		ND		ND		--	--	--
	ug/L	04/24/02	1	ND		--		ND		ND		--	--	--
	ug/L	10/01/02	1	ND		--		ND		ND		--	--	--
	ug/L	04/09/03	1	ND		--		ND		ND		--	--	--
	ug/L	10/20/03	1	ND		ND		ND		ND		--	--	--
	ug/L	03/24/04	1	ND		ND		ND		ND		--	--	--
	ug/L	10/27/04	1	ND		ND		ND		ND		--	--	--
	ug/L	05/25/05	1	ND		ND		ND		ND		--	--	--
	ug/L	10/04/05	1	ND		ND		ND		ND		--	--	--
	ug/L	04/25/06	1	ND		ND		ND		ND		--	--	--
	ug/L	10/04/06	1	ND		ND		ND		ND		--	--	ND
	ug/L	03/21/07	1	0.19	J	2.26		0.37	J	ND		--	--	ND
	ug/L	10/02/07	1	0.87	J	3.57		ND		ND		--	--	ND
	ug/L	04/03/08	1	0.39	J	1.55	J	ND		ND		--	--	ND
	ug/L	10/29/08	1	1.01	J	--		ND		ND		--	--	ND
	ug/L	03/24/09	1	0.59	J	2.4		ND		ND		--	--	ND
	ug/L	09/22/09	1	ND		1.6		ND		ND		--	--	ND
	ug/L	03/22/10	1	ND		1.4		ND		ND		--	--	ND
	ug/L	06/03/10	1	--		--		--		--		ND	ND	ND
	ug/L	09/23/10	1	ND		3.0		ND		ND		--	--	ND
	ug/L	03/16/11	1	ND		2.8		ND		ND		ND	ND	ND
	ug/L	09/21/11	1	ND		ND		ND		ND		ND	ND	ND
	ug/L	03/21/12	1	ND		4.5		ND		ND		dry	ND	ND
	ug/L	09/20/12	1	0.40	J	5.9		ND		ND		dry	ND	ND
	ug/L	03/20/13	1	ND		1.4		ND		ND		dry	ND	ND
	ug/L	09/18/13	1	ND		1.7		ND		ND		dry	ND	ND
1,1-Dichloroethane	ug/L	12/05/94	5	ND		ND		ND		ND		--	--	--
SW Standard = 20,000 ug/L	ug/L	02/14/95	5	ND		ND		ND		ND		--	--	--
	ug/L	04/03/95	5	ND		ND		ND		ND		--	--	--
	ug/L	10/30/95	5	ND		ND		ND		ND		--	--	--
	ug/L	04/08/96	5	--		ND		ND		ND		--	--	--
	ug/L	05/29/96	5	--		ND		ND		ND		--	--	--
	ug/L	06/06/96	5	--		ND		ND		ND		--	--	--
	ug/L	10/24/96	5	ND		ND		ND		ND		--	--	--
	ug/L	04/15/97	5	ND		ND		ND		ND		--	--	--
	ug/L	10/29/97	5	ND		ND		ND		ND		--	--	--
	ug/L	05/14/98	5	ND		ND		ND		ND		--	--	--
	ug/L	11/11/98	5	ND		ND		ND		ND		--	--	--
	ug/L	06/04/99	5	ND		ND		ND		ND		--	--	--
	ug/L	10/29/99	5	ND		ND		ND		ND		--	--	--
	ug/L	04/20/00	5	ND		ND		ND		ND		--	--	--
	ug/L	11/07/00	5	ND		ND		ND		ND		--	--	--
	ug/L	10/16/01	5	ND		--		ND		ND		--	--	--
	ug/L	04/24/02	5	ND		--		ND		ND		--	--	--
	ug/L	10/01/02	5	ND		--		ND		ND		--	--	--
	ug/L	04/09/03	5	ND		--		ND		ND		--	--	--
	ug/L	10/20/03	5	ND		ND		ND		ND		--	--	--
	ug/L	03/24/04	5	ND		ND		ND		ND		--	--	--
	ug/L	10/27/04	5	ND		ND		ND		ND		--	--	--
	ug/L	05/25/05	5	ND		ND		ND		ND		--	--	--
	ug/L	10/04/05	5	ND		ND		ND		ND		--	--	--
	ug/L	04/25/06	5	ND		ND		ND		ND		--	--	--
	ug/L	10/04/06	5	ND		ND		ND		ND		--	--	ND
	ug/L	03/21/07	5	ND		0.23	J	ND		ND		--	--	ND
	ug/L	10/02/07	5	0.21	J	0.41	J	ND		ND		--	--	ND
	ug/L	04/03/08	5	0.09	J	0.14	J	ND		ND		--	--	ND
	ug/L	10/29/08	5	0.18	J	--		ND		ND		--	--	ND
	ug/L	03/24/09	5	ND		ND		ND		ND		--	--	ND
	ug/L	09/22/09	5	ND		ND		ND		ND		--	--	ND
	ug/L	03/22/10	5	ND		ND		ND		ND		--	--	ND
	ug/L	06/03/10	5	--		--		--		--		ND	ND	ND
	ug/L	09/23/10	5	ND		ND		ND		ND		--	--	ND
	ug/L	03/16/11	5	ND		ND		ND		ND		ND	ND	ND
	ug/L	09/21/11	5	ND		ND		ND		ND		ND	ND	ND
	ug/L	03/21/12	5	ND		ND		ND		ND		dry	ND	ND
	ug/L	09/20/12	5	ND		ND		ND		ND		dry	ND	ND
	ug/L	03/20/13	5	ND		ND		ND		ND		dry	ND	ND
	ug/L	09/18/13	5	ND		ND		ND		ND		dry	ND	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
cis-1,2-Dichloroethene	ug/L	12/05/94	5	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	5	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	5	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	5	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	5	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	5	--	ND	ND	--	--	--	--
	ug/L	06/06/96	5	--	ND	ND	--	--	--	--
	ug/L	10/24/96	5	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	5	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	5	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	5	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	5	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	5	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	5	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	5	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	5	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	5	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	5	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	5	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	5	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	5	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	5	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	5	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	5	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	5	0.64 J	ND	ND	ND	--	--	ND
	ug/L	10/02/07	5	0.09 J	0.97 J	ND	ND	--	--	ND
	ug/L	04/03/08	5	ND	0.71 J	ND	ND	--	--	ND
	ug/L	10/29/08	5	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	5	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	5	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	5	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	5	ND	ND	ND	ND	dry	ND	ND
Chloromethane	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	1	--	ND	ND	--	--	--	--
	ug/L	06/06/96	1	--	ND	ND	--	--	--	--
	ug/L	10/24/96	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	1	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	1	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	1	ND	ND	ND	ND	--	--	ND
	ug/L	10/29/08	1	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	1	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	1	ND	0.43 J	ND	0.41 J	--	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	1	ND	ND	ND	ND	dry	ND	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Methylene chloride	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	1	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	1	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	1	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	1	ND	ND	ND	ND	--	--	0.41 J
	ug/L	04/03/08	1	ND	ND	ND	ND	--	--	0.42 J
	ug/L	10/29/08	1	ND	--	ND	0.19 J	--	--	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	1	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	1	ND	ND	ND	ND	dry	ND	ND
Tetrachloroethene	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	1	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	1	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	1	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	1	ND	0.24 J	ND	ND	--	--	ND
	ug/L	04/03/08	1	ND	1.12	ND	ND	--	--	ND
	ug/L	10/29/08	1	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	1	ND	0.42 J	ND	ND	--	--	ND
	ug/L	03/22/10	1	ND	0.62 J	ND	ND	--	--	ND
	ug/L	06/03/10	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	1	ND	ND	ND	ND	dry	ND	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Toluene	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--
SW Standard = 11 ug/L	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	1	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	1	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	1	ND	0.29 J	ND	ND	--	--	ND
	ug/L	10/02/07	1	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	1	ND	ND	ND	ND	--	--	0.6 J
	ug/L	10/29/08	1	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	1	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	3.6	ND	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	1	ND	ND	ND	ND	dry	ND	ND
Trichloroethene	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	1	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	1	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	1	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	1	ND	1 J	ND	ND	--	--	ND
	ug/L	04/03/08	1	ND	1.23 J	ND	ND	--	--	ND
	ug/L	10/29/08	1	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	1	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	1	ND	ND	ND	ND	dry	ND	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Vinyl chloride	ug/L	12/05/94	1	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	1	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	1	--	ND	ND	ND	--	--	--
	ug/L	10/24/96	1	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/97	1	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	1	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	1	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	1	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	1	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	1	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	1	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	1	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	1	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	1	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	1	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	1	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	1	0.52 J	ND	ND	ND	--	--	ND
	ug/L	10/02/07	1	ND	0.47 J	ND	ND	--	--	ND
	ug/L	04/03/08	1	ND	ND	ND	ND	--	--	ND
	ug/L	10/29/08	1	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	1	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	1	ND	ND	ND	ND	dry	ND	ND
Xylenes (Total)	ug/L	12/05/94	5	ND	ND	ND	0.04	--	--	--
SW Standard = 670 ug/L	ug/L	02/14/95	5	ND	ND	ND	0.071	--	--	--
	ug/L	04/03/95	5	ND	ND	ND	0.051	--	--	--
	ug/L	10/30/95	5	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	5	--	ND	ND	0.04	--	--	--
	ug/L	05/29/96	5	--	ND	ND	--	--	--	--
	ug/L	06/06/96	5	--	ND	ND	--	--	--	--
	ug/L	10/24/96	5	ND	ND	ND	0.013	--	--	--
	ug/L	04/15/97	5	ND	ND	ND	0.03	--	--	--
	ug/L	10/29/97	5	ND	ND	ND	ND	--	--	--
	ug/L	05/14/98	5	ND	ND	ND	ND	--	--	--
	ug/L	11/11/98	5	ND	ND	ND	ND	--	--	--
	ug/L	06/04/99	5	ND	ND	ND	ND	--	--	--
	ug/L	10/29/99	5	ND	ND	ND	ND	--	--	--
	ug/L	04/20/00	5	ND	ND	ND	ND	--	--	--
	ug/L	11/07/00	5	ND	ND	ND	ND	--	--	--
	ug/L	10/16/01	5	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	5	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	5	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	5	ND	--	ND	0.063	--	--	--
	ug/L	10/20/03	5	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	5	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	5	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	5	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	5	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	5	ND	0.17 J	ND	ND	--	--	ND
	ug/L	04/03/08	5	ND	ND	ND	ND	--	--	ND
	ug/L	10/29/08	5	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	5	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	5	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	5	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	5	ND	ND	ND	ND	dry	ND	ND

TABLE 5

Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
pH (field)	S.U.	10/05/06	--	5.90	6.62	6.74	6.80	--	--	--
	S.U.	10/02/07	--	6.35	6.37	6.25	7.20	--	--	--
	S.U.	04/01/08	--	6.61	6.41	6.35	7.32	--	--	--
	S.U.	03/24/09	--	7.48	7.83	7.50	7.84	--	--	--
	S.U.	09/22/09	--	6.94	6.81	7.06	7.01	--	--	--
	S.U.	03/22/10	--	6.29	6.32	6.34	6.75	--	--	--
	S.U.	06/03/10	--	--	--	--	--	7.21	6.33	--
	S.U.	09/23/10	--	7.27	7.17	6.55	7.44	--	--	--
	S.U.	03/16/11	--	7.16	6.42	6.48	6.65	7.47	6.85	--
	S.U.	09/21/11	--	6.95	7.51	6.65	7.41	7.12	7.02	--
	S.U.	03/21/12	--	6.62	6.67	6.32	6.93	dry	6.46	--
	S.U.	09/20/12	--	7.18	5.24	7.69	7.75	dry	6.96	--
	S.U.	03/20/13	--	6.61	7.06	6.45	6.89	dry	6.53	--
	S.U.	09/18/13	--	7.23	7.17	6.83	7.18	dry	6.82	--
Conductivity (field)	uS/cm	10/05/06	--	530	765	1512	184	--	--	--
	uS/cm	10/02/07	--	498	1029	3037	321	--	--	--
	uS/cm	04/01/08	--	400	932	2355	400	--	--	--
	uS/cm	03/24/09	--	620	810	3230	360	--	--	--
	uS/cm	09/22/09	--	388	845	1328	338	--	--	--
	uS/cm	03/22/10	--	343	783	403	317	--	--	--
	uS/cm	06/03/10	--	--	--	--	--	779	599	--
	uS/cm	09/23/10	--	506	1217	2605	343	--	--	--
	uS/cm	03/16/11	--	357	715	2341	354	284	1713	--
	uS/cm	09/21/11	--	484	863	2149	326	574	3175	--
	uS/cm	03/21/12	--	347	1025	2466	250	dry	2951	--
	uS/cm	09/20/12	--	418	1017	3162	269	dry	430	--
	uS/cm	03/20/13	--	171	456	1567	177	dry	1919	--
	uS/cm	09/18/13	--	356	738	1782	307	dry	3190	--
Temperature (field)	Celsius	10/05/06	--	15.7	16.0	15.9	17.0	--	--	--
	Celsius	10/02/07	--	13.6	14.9	15.3	14.9	--	--	--
	Celsius	04/01/08	--	15.9	10.7	10.7	15.9	--	--	--
	Celsius	03/24/09	--	13.4	14.8	8.2	14.4	--	--	--
	Celsius	09/22/09	--	20.54	18.56	19.52	19.20	--	--	--
	Celsius	03/22/10	--	6.79	8.12	7.74	7.76	--	--	--
	Celsius	06/03/10	--	--	--	--	--	29.51	17.45	--
	Celsius	09/23/10	--	20.05	18.13	19.60	19.38	--	--	--
	Celsius	03/16/11	--	8.13	11.22	11.32	7.06	17.76	11.62	--
	Celsius	09/21/11	--	16.71	20.10	18.13	16.55	19.50	15.48	--
	Celsius	03/21/12	--	13.40	16.98	17.67	14.38	dry	17.50	--
	Celsius	09/20/12	--	15.70	17.80	16.07	16.27	dry	15.94	--
	Celsius	03/20/13	--	2.39	10.28	7.76	7.72	dry	5.53	--
	Celsius	09/18/13	--	16.0	17.7	17.3	16.9	dry	15.7	--
Turbidity (field)	NTU	03/24/09	--	34.2	12.7	3.02	6.58	--	--	--
	NTU	09/22/09	--	69.3	29.7	24.9	9.06	--	--	--
	NTU	03/22/10	--	29.6	12.6	10	23	--	--	--
	NTU	06/03/10	--	--	--	--	--	260	17.1	--
	NTU	09/23/10	--	54.2	6.72	11.3	3.51	--	--	--
	NTU	03/16/11	--	74.6	8.59	23.6	20.7	50.8	6.27	--
	NTU	09/21/11	--	66.4	215	42.8	35.9	19.5	23.6	--
	NTU	03/21/12	--	27.7	97.4	17.0	11.4	dry	10.7	--
	NTU	09/20/12	--	67.0	30.2	12.5	67.0	dry	56.9	--
	NTU	03/20/13	--	40.7	19.1	10.1	9.60	dry	4.31	--
	NTU	09/18/13	--	23.4	24.9	14.3	16.9	dry	15.0	--
Oxidation Reduction Potential (field)	mV	09/22/09	--	-27.9	-51.1	-35.1	26.6	--	--	--
	mV	03/22/10	--	-9.7	-45.7	47.1	-29.0	--	--	--
	mV	06/03/10	--	--	--	--	--	-73.7	3.0	--
	mV	09/23/10	--	-27.2	-134.9	-2.0	30.2	--	--	--
	mV	03/16/11	--	15.1	31.4	1.3	-1.6	106.2	-6.5	--
	mV	09/21/11	--	-34.1	-25.4	-18.9	-41.0	9.3	-24.9	--
	mV	03/21/12	--	15.4	-51.4	11.0	7.71	dry	70.0	--
	mV	09/20/12	--	-180.3	1.0	-136.6	-129.5	dry	-124.9	--
	mV	03/20/13	--	1.5	-42.3	9.7	-1.7	dry	30.1	--
	mV	09/18/13	--	14.2	-31.0	60.7	90.6	dry	41.7	--

TABLE 5

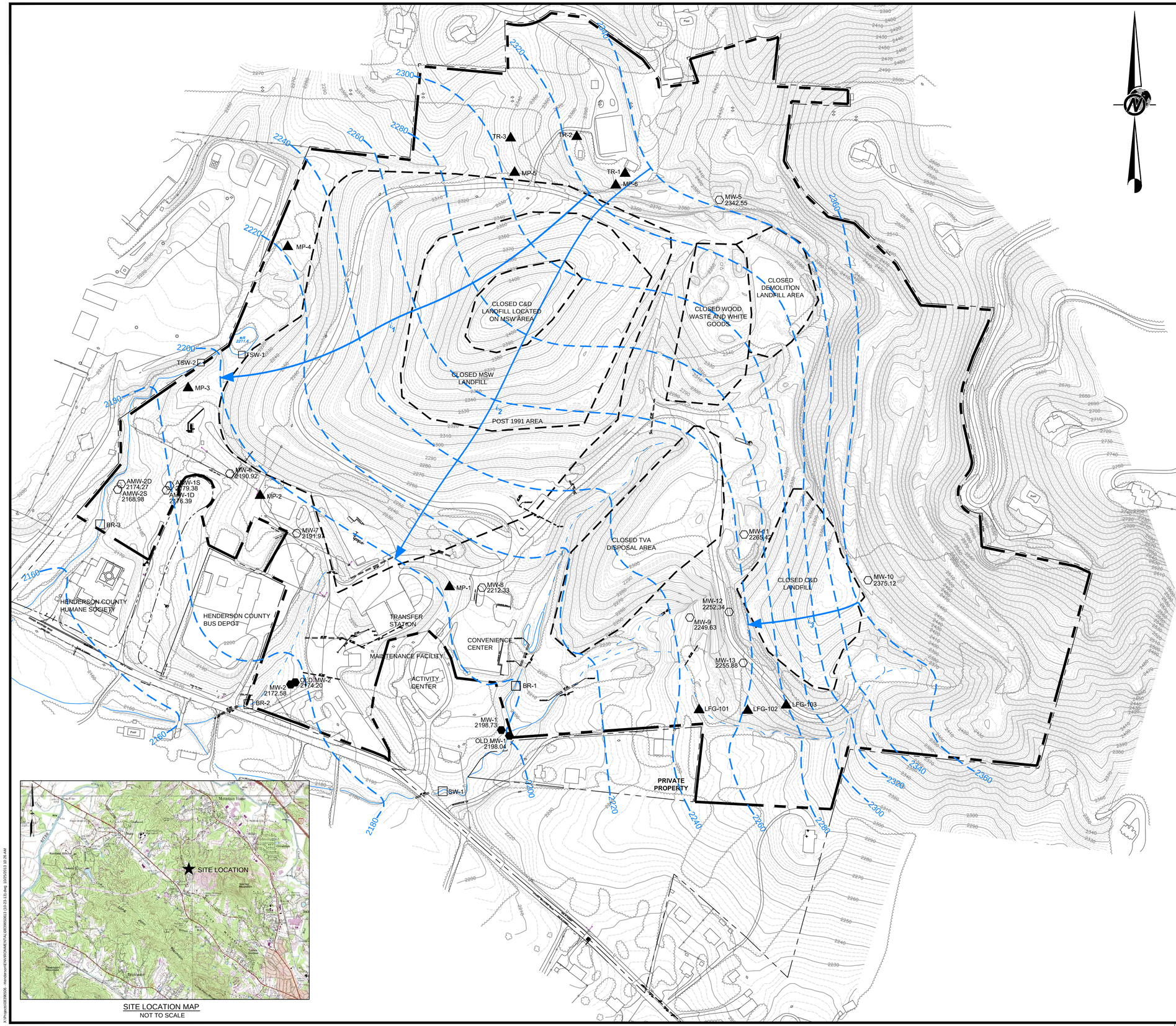
Summary of Detected Constituents in Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01
Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Dissolved Oxygen (field)	mg/L	09/22/09	--	4.00	4.20	4.33	5.02	--	--	--
	mg/L	03/22/10	--	10.99	9.49	9.03	10.47	--	--	--
	mg/L	06/03/10	--	--	--	--	--	--	--	--
	mg/L	09/23/10	--	6.87	24.0	6.36	6.28	--	--	--
	mg/L	3/16/11	--	14.68	13.44	8.76	10.47	18.12	8.29	--
	mg/L	09/21/11	--	7.42	6.32	6.90	8.74	6.61	7.64	--
	mg/L	03/21/12	--	8.37	6.04	7.23	13.9	dry	7.05	--
	mg/L	9/20/12	--	5.53	12.35	6.67	7.13	dry	6.47	--
	mg/L	3/20/13	--	--	--	--	--	dry	--	--
	mg/L	9/18/13	--	8.19	5.36	6.09	5.86	dry	5.06	--

Notes:

mg/L = milligrams per liter
ug/L = micrograms per liter
S.U. = Standard Units
NTU = Nephelometric Turbidity Units
ND = Not detected at the stated reporting limit
uS/cm = microsiemens per centimeter
mV = Millivolts
J = Estimated concentration
B = Blank-qualified result
-- = no data available
dry = there was no discernible flow and a sample was not collected.
SW Standard = Surface Water Standard based on Freshwater Aquatic Life Classification
1) Surface Water Standards based on Fresh Water Aquatic Life Classification
Blanks = field, trip and method blanks
SWS Reporting Limit = NCPQL or lab-specific reporting limit prior to October 2007 and NCSWSL starting in October 2007
(N) = Narrative Standard
(AL) = Action Level Standard
1) Historical data prior to March 2009 provided by Henderson County and CDM.
2) TSW-1 and TSW-2 were added as temporary monitoring points during the March 2011 event.

DRAWING



SITE LOCATION MAP
NOT TO SCALE

LEGEND

- EXISTING 10 FT. CONTOUR
- EXISTING 2 FT. CONTOUR
- PROPERTY LINE
- LIMITS OF WASTE
- STREAM
- BUFFER
- TREELINE
- EXISTING ROAD
- FENCE
- GROUNDWATER SURFACE CONTOURS
- APPROXIMATE GROUNDWATER FLOW SEGMENT USED TO CALCULATE GRADIENT
- MW-8 2212.33 — COMPLIANCE MONITORING WELL AND IDENTIFICATION
- MW-1 — NON COMPLIANCE MONITORING WELL AND IDENTIFICATION
- MP-6 — METHANE MONITORING PROBE AND IDENTIFICATION
- BR-1 — SURFACE WATER MONITORING POINT AND IDENTIFICATION

NOTES

1. TOPOGRAPHIC CONTOUR INTERVAL = 2 FEET
2. GROUNDWATER SURFACE CONTOUR INTERVAL = 20 FEET
3. GROUNDWATER ELEVATIONS MEASURED ON SEPTEMBER 18, 2013.
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 CONDITIONS.
5. GROUNDWATER CONTOUR LINES SHOW THE WATER TABLE SHAPE AND ELEVATION. THESE CONTOURS ARE INFERRED LINES FOLLOWING THE GROUNDWATER SURFACE AT A CONSTANT ELEVATION ABOVE SEA LEVEL
6. COORDINATE SYSTEM IS N.C. STATE PLANE GRID.
7. TOPOGRAPHIC DIVIDING LINE DIVIDES THE BASE MAP TOPOGRAPHIC CONTOURS FROM LANDSAT TOPOGRAPHIC CONTOURS. LANDSAT TOPOGRAPHIC CONTOURS HAVE A 5-CONTOUR INTERVAL.

REFERENCES

1. BASE MAP PROVIDED BY CAMP DRESSER & McKEE FROM PREVIOUS WATER QUALITY MONITORING REPORTS.

150 0 150 300
SCALE FEET

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW
5	09/24/13	BF	SEPTEMBER 2013 GW CONTOURS	LKB		
4	04/12/13	DAC	REVISED GW CONTOURS	LKB	DYR	RPK

PROJECT
HENDERSON COUNTY CLOSED MSW AND C&D LANDFILL
PERMIT # 45-01

TITLE
GROUNDWATER SURFACE CONTOUR MAP SEPTEMBER 18, 2013

PG C-399

Golder Associates
GOLDER ASSOCIATES NC, INC.

PROJECT No.	083-9650613		FILE No. 0839650613 (10-23-13)	
DESIGN	JAD	04/28/09	SCALE AS SHOWN	REV. –
CADD	LKB	04/28/09		
CHECK	DYR	06/30/09	DWG. 1	
REVIEW	RPK	06/30/09		

X:\Projects\0839650\9650613-Henderson\ENVIRONMENTAL\0839650613 (10-23-13) Aug 12/25/2013 10:29 AM

APPENDIX A

GROUNDWATER AND SURFACE WATER SAMPLING LOGS

DATE: 9/18/13

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.*
Project No./Phase No.: *08396506013.100*
Well ID: MW-5
Sampler(s): *B. Freyer, D. Childress*
Well Diameter: 2 inches
Int. Depth to Water: 47.27 feet
Depth to Bottom: 74.00 feet
Total Water Column: 26.73 feet
Well Volume: 4.4 gallons
3x Well Volume: 13.2 gallons
Well Location: on hill above green waste area
Equipment: *YSI ProPlus, water level meter, Hach turbidimeter, disposable bailer*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1411	5.73	0.198	448	14.9	0
1419	5.70	0.186	814	14.4	4.4
1430	5.74	0.172	780	14.3	8.8
1439	5.79	0.171	66.1	14.3	13.2
	Sampled @ 1439				

Comments (weather conditions, color, type of sample, purge-water management, etc.):
60's, overcast
LF construction nearby

Signature: BJF **Date:** 9/18/13

QA/QC Sign Off: Paul S Reedy **Date:** 11-12-13

DATE: 9/18/13

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.*
Project No./Phase No.: *08396506013.100*
Well ID: MW-6
Sampler(s): *B. Freyer, D. Childress*
Well Diameter: 2 inches
Int. Depth to Water: 13.32 feet
Depth to Bottom: 19.26 feet
Total Water Column: 5.94 feet
Well Volume: 1.0 gallons
3x Well Volume: 3.0 gallons
Well Location: Next to scalehouse entrance, inside fence
Equipment: *YSI ProPlus, water level meter, Hach turbidimeter, disposable bailer*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1606	6.12	0.752	>1000	17.1	0
1608	6.10	0.771	>1000	16.8	1.0
1613	6.03	0.950	>1000	16.7	2.0
1617	6.02	0.965	>1000	16.7	3.0
		Sampled @ 1617			

Comments (weather conditions, color, type of sample, purge-water management, etc.):
Weather: 63°F, overcast

*Dissolved metals taken in addition to Total Metals

Signature: Daniel Childress **Date:** 9/18/13

QA/QC Sign Off: Paul S Reedy **Date:** 11-12-13

DATE: 9/18/13

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.*
Project No./Phase No.: *08396506013.100*
Well ID: MW-7 (MS/MSD)
Sampler(s): *B. Freyer, D. Childress*
Well Diameter: 2 inches
Int. Depth to Water: 18.69 feet
Depth to Bottom: 28.11 feet
Total Water Column: 9.42 feet
Well Volume: 1.54 gallons
3x Well Volume: 4.62 gallons
Well Location: next to scalehouse
Equipment: *YSI ProPlus, water level meter, Hach turbidimeter, disposable bailer*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1540	6.11	0.708	20.0	16.9	0
1543	6.15	0.776	9.89	16.7	1.5
1545	6.17	0.815	12.0	16.6	3.0
1548	6.19	0.995	27.2	16.6	4.62
		sampled @	1548		

Comments (weather conditions, color, type of sample, purge-water management, etc.):
60's, overcast

Signature: [illegible] **Date:** 9/18/13

QA/QC Sign Off: [illegible] **Date:** 11-12-13

DATE: 9/18/13

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.*
Project No./Phase No.: *08396506013.100*
Well ID: MW-8
Sampler(s): *B. Freyer, D. Childress*
Well Diameter: 2 inches
Int. Depth to Water: 23.54 feet
Depth to Bottom: 31.30 feet
Total Water Column: 7.76 feet
Well Volume: 1.3 gallons
3x Well Volume: 3.9 gallons
Well Location: in old convenience center behind transfer station
Equipment: *YSI ProPlus, water level meter, Hach turbidimeter, disposable bailer*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1504	6.29	1.120	24.4	16.4	0
1507	6.23	1.110	49.4	16.3	1.3
1511	6.27	1.058	54.5	16.2	2.6
1514	6.25	~~Sat~~ 1.022	60.7	16.2	3.9
		Sampled @ 1514			

Comments (weather conditions, color, type of sample, purge-water management, etc.):
weather: 68°F, overcast, breezy

Signature: David Childress **Date:** 9/18/13

QA/QC Sign Off: Paul G. Reedy **Date:** 11-12-13

DATE: 9/19/13

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.*
Project No./Phase No.: *08396506013.100*
Well ID: AMW-15
Sampler(s): *B. Freyer, D. Childress*
Well Diameter: 2 inches
Int. Depth to Water: 13.71 feet
Depth to Bottom: 29.01 feet
Total Water Column: 15.30 feet
Well Volume: 2.5 gallons
3x Well Volume: 7.5 gallons
Well Location: Nested w/ AMW-1D behind animal shelter
Equipment: *YSI ProPlus, water level meter, Hach turbidimeter, disposable bailer*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1006	5.96	0.128	>1000	16.6	0
1021	6.21	0.297	113	16.5	2.5
1026	6.24	0.462	125	15.8	5.0
1031	6.30	0.598	72.4	15.9	7.5
		Sampled @ 1031			

Comments (weather conditions, color, type of sample, purge-water management, etc.):
weather: 61°F, overcast

Signature: David Childress **Date:** 9/19/13

QA/QC Sign Off: Paul S Reedy **Date:** 11-12-13

DATE: 9/19/13

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.*
Project No./Phase No.: *08396506013.100*
Well ID: AMW-1D
Sampler(s): *B. Freyer, D. Childress*
Well Diameter: 2 inches
Int. Depth to Water: 14.38 feet
Depth to Bottom: 62.88 feet
Total Water Column: 48.50 feet
Well Volume: 7.91 gallons
3x Well Volume: 23.73 gallons
Well Location: along entrance road by animal shelter
Equipment: *YSI ProPlus, water level meter, Hach turbidimeter, disposable bailer*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1003	6.70	0.648	49.4	15.6	0
1020	6.21	0.686	21.3	14.6	8
1029	6.14	0.675	19.8	14.4	16
1042	6.16	0.646	19.3	14.6	24
		Sampled @ 1042			

Comments (weather conditions, color, type of sample, purge-water management, etc.):
60's, mostly cloudy

Signature: B. Freyer **Date:** 9/19/13

QA/QC Sign Off: Paul G. Ready **Date:** 11-12-13

DATE: 9/19/13

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.*
Project No./Phase No.: *08396506013.100*
Well ID: AMW-2S
Sampler(s): *B. Freyer, D. Childress*
Well Diameter: 2 inches
Int. Depth to Water: 8.68 feet
Depth to Bottom: 25.30 feet
Total Water Column: 16.62 feet
Well Volume: 2.70 gallons
3x Well Volume: 8.10 gallons
Well Location: in woods behind animal shelter
Equipment: *YSI ProPlus, water level meter, Hach turbidimeter, disposable bailer*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1120	6.17	0.253	781	15.1	0
1124	6.17	0.258	147	14.9	2.7
1130	6.18	0.306	212	14.7	5.4
1136	6.17	0.314	192	14.6	8.1
		sampled @ 1136			

Comments (weather conditions, color, type of sample, purge-water management, etc.):
60's, mostly sunny
Filtered sample collected in addition to total metals

Signature: [illegible] **Date:** 9/19/13

QA/QC Sign Off: [illegible] **Date:** 11-12-13

DATE: 9/19/13

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.*
Project No./Phase No.: *08396506013.100*
Well ID: AMW-2D
Sampler(s): *B. Freyer, D. Childress*
Well Diameter: 2 inches
Int. Depth to Water: 3.31 feet
Depth to Bottom: 84.05 feet
Total Water Column: 80.74 feet
Well Volume: 13.2 gallons
3x Well Volume: 39.6 gallons
Well Location: Nested w/ AMW-2S in woods behind animal shelter
Equipment: *YSI ProPlus, water level meter, Hach turbidimeter, disposable bailer*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1105	7.28	0.113	10.9	18.6	~~13.0~~
1130	6.50	0.128	15.8	14.0	13.2
1200	6.62	0.135	9.35	14.0	26.4
1217	6.56	0.136	25.3	14.0	39.6
		Sampled @ 1217			

Comments (weather conditions, color, type of sample, purge-water management, etc.):
weather: 60's, mostly sunny

Signature: Daniel Childress **Date:** 9/19/13

QA/QC Sign Off: Paul S Reedy **Date:** 11-12-13

DATE: 9/18/13

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.*
Project No./Phase No.: *08396506013.100*
Well ID: MW-10
Sampler(s): *B. Freyer, D. Childress*
Well Diameter: 2 inches
Int. Depth to Water: 29.43 feet
40.00 **Depth to Bottom:** ~~46.58~~ feet
Total Water Column: 10.57 feet
Well Volume: 1.72 gallons
3x Well Volume: 5.16 gallons
Well Location: on hill above convenience center
Equipment: *YSI ProPlus, water level meter, Hach turbidimeter, disposable bailer*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
0901	5.74	0.038	>1000	13.8	0
0907	5.76	0.038	>1000	13.8	1.72
0913	5.78	0.038	>1000	13.8	3.44
0918	5.83	0.039	>1000	13.8	5.16
		sampled @	0918		

Comments (weather conditions, color, type of sample, purge-water management, etc.):
weather: 50's, mostly cloudy

* Filtered sample collected in addition to total metals

Signature: [signature] **Date:** 9/18/13

QA/QC Sign Off: [signature] **Date:** 11-12-13

DATE: 9/18/13

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.*
Project No./Phase No.: *08396506013.100*
Well ID: *MW-11*
Sampler(s): *B. Freyer, D. Childress*
Well Diameter: 2 inches
Initial Depth to Water: 42.30 feet
Depth to Bottom: 58.49 feet
Water Column Thickness: 16.19 feet
Pumping Rate: 100 mL/min.
System Volume: mL
Well Location: in pavement @ convenience center (flush mount)
Equipment: *YSI ProPlus, Water Level Meter, Hach turbidimeter, portable bladder pump*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O_2 (mg/L)	Temp. (°C)	ORP (millivolts)	DTW (feet)
1229	5.51	0.238	59.9	2.16	20.9	62.8	42.86
1234	5.43	0.233	37.6	0.50	19.4	70.0	42.94
1239	5.42	0.230	29.0	0.39	19.3	59.2	42.98
1244	5.41	0.227	34.8	0.35	19.4	51.6	43.07
1245	not sampled due to surge of sediment, wait to clear out						
1249	5.41	0.227	316	0.36	19.0	49.3	43.11
1254	5.41	0.227	174	0.35	19.1	49.0	43.14
1259	5.40	0.227	26.5	0.33	18.9	49.2	43.16
		sampled @ 1259					

Comments (weather conditions, color, type of sample, purge-water management, etc.):
60's, overcast, breeze
well adjacent to oil, antifreeze, battery drop off

Signature: B. Freyer
Date: 9/18/13

QA/QC Sign Off: Paul S Reeg
Date: 11-12-13

DATE: 9/18/13

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.*
Project No./Phase No.: *08396506013.100*
Well ID: MW-12
Sampler(s): *B. Freyer, D. Childress*
Well Diameter: 2 inches
Int. Depth to Water: 47.75 feet
Depth to Bottom: 62.90 feet
Total Water Column: 15.15 feet
Well Volume: 2.5 gallons
3x Well Volume: 7.5 gallons
Well Location: Along access road to convenience center
Equipment: *YSI ProPlus, water level meter, Hach turbidimeter, disposable bailer*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1126	5.69	0.226	251	14.7	0
1131	5.72	0.287	43.6	14.6	2.5
1138	5.75	0.298	57.2	14.6	5.0
1145	5.76	0.309	47.1	14.6	7.5
	sampled @		1145		

Comments (weather conditions, color, type of sample, purge-water management, etc.):
weather: 60's, overcast

Signature: [signature] **Date:** 9/18/13

QA/QC Sign Off: [signature] **Date:** 11-12-13

DATE: 9/18/13

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.*
Project No./Phase No.: *08396506013.100*
Well ID: MW-13
Sampler(s): *B. Freyer, D. Childress*
Well Diameter: 2 inches
Int. Depth to Water: 40.45 feet
Depth to Bottom: 91.11 feet
Total Water Column: 50.66 feet
Well Volume: 8.25 gallons
3x Well Volume: 24.75 gallons
Well Location: Uphill from Convenience center access road
Equipment: *YSI ProPlus, water level meter, Hach turbidimeter, disposable bailer*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1007	6.00	0.278	23.3	14.4	0
1023	5.84	0.283	11.7	14.1	8.25
1046	5.88	0.288	21.8	14.2	16.50
1108	6.06	0.283	81.5	14.3	24.75
		Sampled @ 1108			

Comments (weather conditions, color, type of sample, purge-water management, etc.):
weather: 61°F, mostly cloudy

Signature: David Childress **Date:** 9/18/13

QA/QC Sign Off: Paul G Reedy **Date:** 11-12-13

DATE: 9/19/13

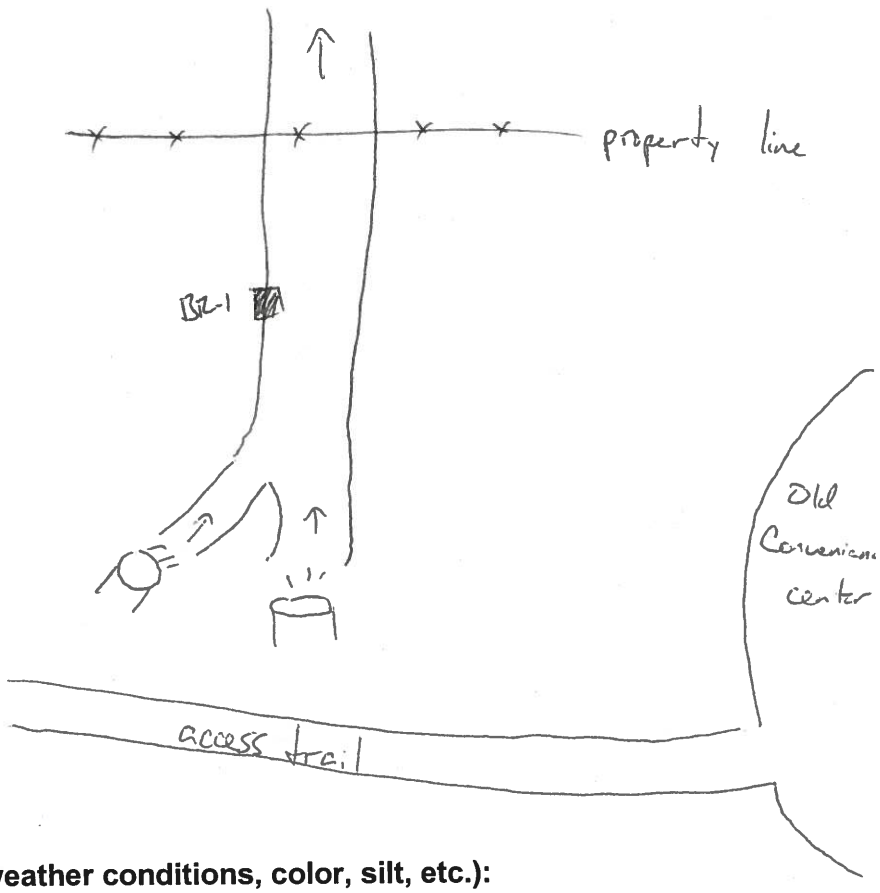
Golder Associates

SURFACE WATER SAMPLING LOG

Project Name: Henderson Co. **Project No./Phase No.:** 08396506013.100
Sample ID: BR-1 **Sampler(s):** B. Freyer, D. Childress
Sampling Location: stream behind convenience center (closed)
Equipment: YSI ProPlus, Hach Turbidimeter

Time	0828
pH s.u.	7.23
Cond. mS/cm	0.356
Turb. ntu	23.4
Dis. O_2 mg/L	8.19
Temp. °C	16.0
ORP mv	14.2

Surface Water Sampling Location Sketch



Comments (sample methodology, weather conditions, color, silt, etc.):
60's, fog, breeze

Signature: [illegible] **Date:** 9/19/13

QA/QC Sign Off: [illegible] **Date:** 11-12-13

DATE: 9/19/13

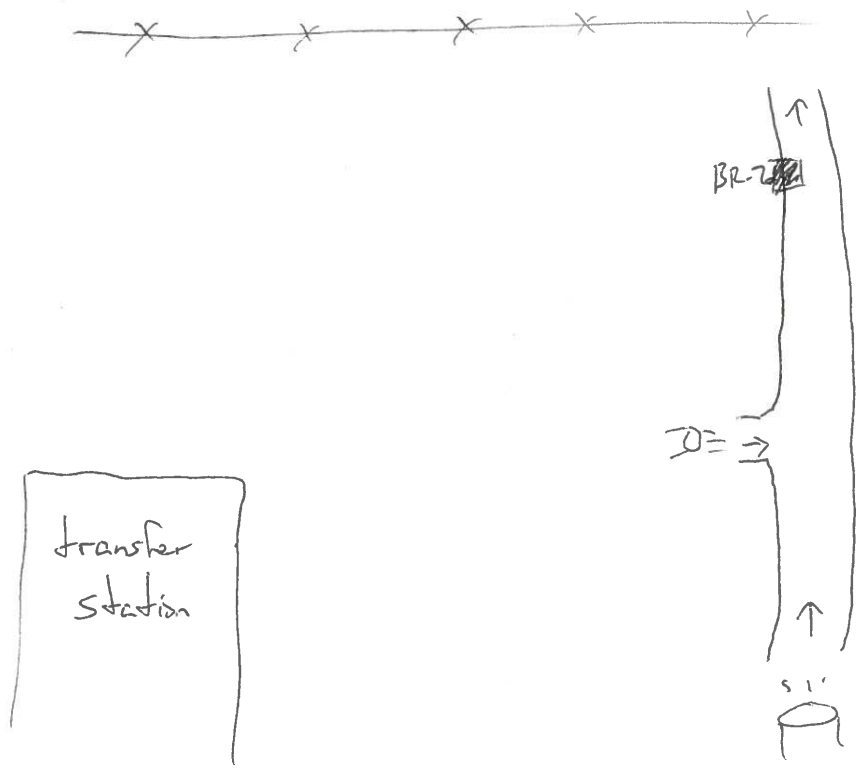
Golder Associates

SURFACE WATER SAMPLING LOG

Project Name: Henderson Co. **Project No./Phase No.:** 08396506013.100
Sample ID: BR-2 **Sampler(s):** B. Freyer, D. Childress
Sampling Location: @ property line, stream below transfer station
Equipment: YSI ProPlus, Hach Turbidimeter

Time	0850
pH s.u.	7.17
Cond. mS/cm	0.738
Turb. ntu	24.9
Dis. O_2 mg/L	5.36
Temp. °C	17.7
ORP mv	-31.0

Surface Water Sampling Location Sketch



Comments (sample methodology, weather conditions, color, silt, etc.):
60's, mostly cloudy/fog

Signature: B. Freyer **Date:** 9/19/13

QA/QC Sign Off: Paul G. Reedy **Date:** 11-12-13

DATE: 9/19/13

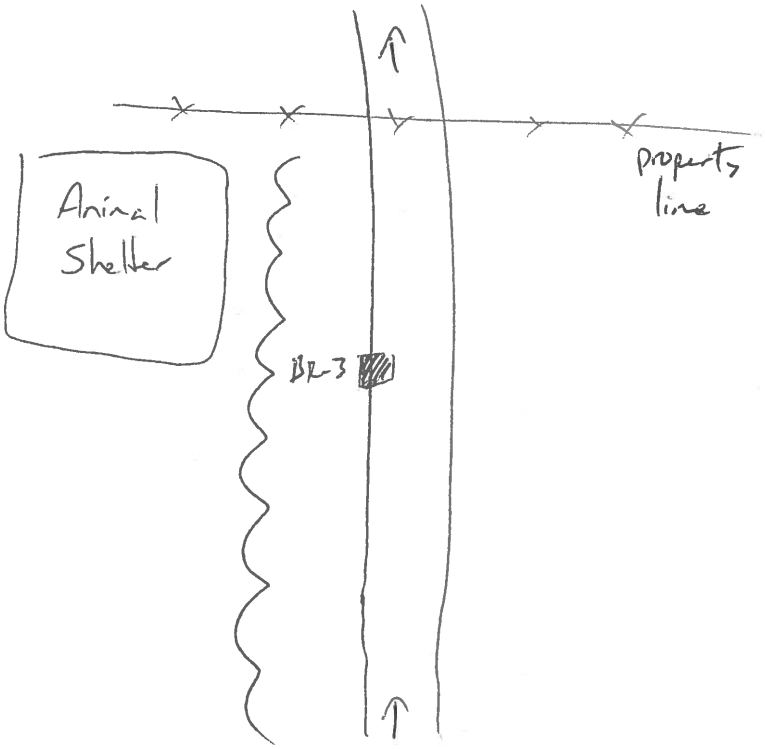
Golder Associates

SURFACE WATER SAMPLING LOG

Project Name: Henderson Co. **Project No./Phase No.:** 08396506013.100
Sample ID: BR-3 **Sampler(s):** B. Freyer, D. Childress
Sampling Location: in woods behind animal shelter @ property line
Equipment: YSI ProPlus, Hach Turbidimeter

Time	1200
pH s.u.	6.83
Cond. mS/cm	1.782
Turb. ntu	14.3
Dis. O_2 mg/L	6.09
Temp. °C	17.3
ORP mv	60.7

Surface Water Sampling Location Sketch



Comments (sample methodology, weather conditions, color, silt, etc.):
60's, mostly sunny

Signature: [signature] **Date:** 9/19/13

QA/QC Sign Off: [signature] **Date:** 11-12-13

DATE: 9/19/13

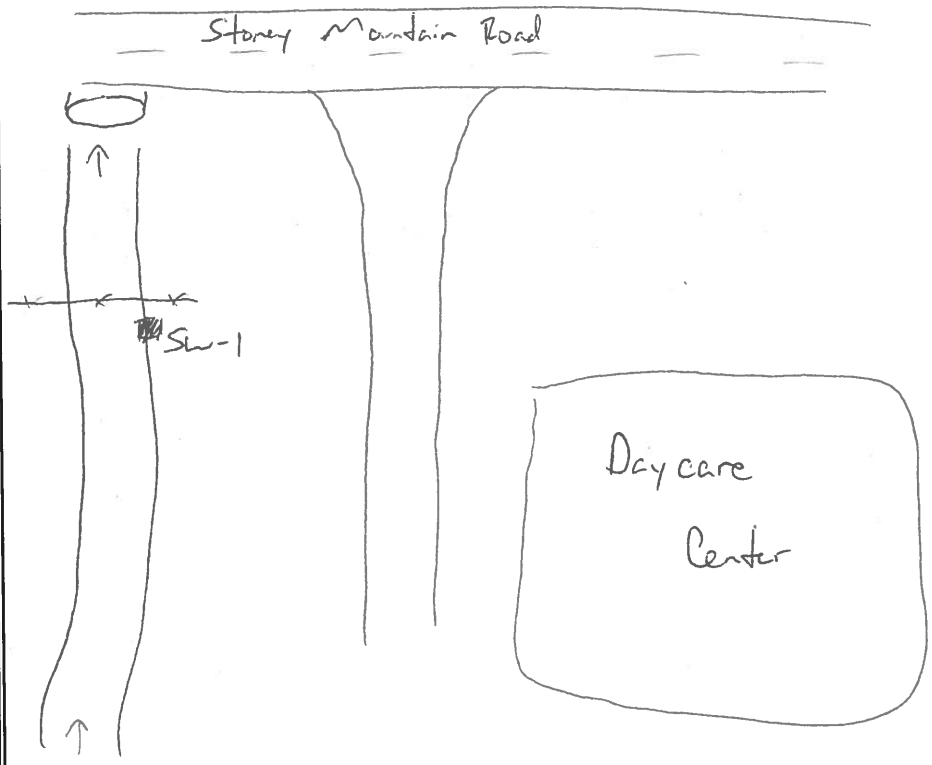
Golder Associates

SURFACE WATER SAMPLING LOG

Project Name: Henderson Co. **Project No./Phase No.:** 08396506013.100
Sample ID: SW-1 **Sampler(s):** B. Freyer, D. Childress
Sampling Location: @ property line, creek behind daycare center
Equipment: YSI ProPlus, Hach Turbidimeter

Time	1245
pH s.u.	7.18
Cond. mS/cm	0.307
Turb. ntu	16.9
Dis. O_2 mg/L	5.86
Temp. °C	16.9
ORP mv	90.6

Surface Water Sampling Location Sketch



Comments (sample methodology, weather conditions, color, silt, etc.):
60's, mostly sunny

Signature: [signature] **Date:** 9/19/13

QA/QC Sign Off: [signature] **Date:** 11-12-13

DATE: 9/19/13

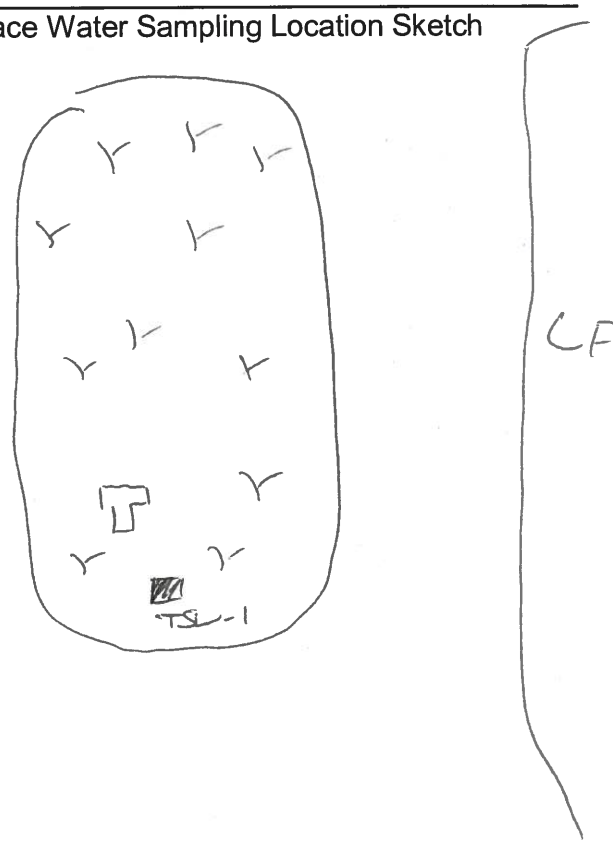
Golder Associates

SURFACE WATER SAMPLING LOG

Project Name: Henderson Co. **Project No./Phase No.:** 08396506013.100
Sample ID: TSW-1 **Sampler(s):** B. Freyer, D. Childress
Sampling Location: wetland/seep pond
Equipment: YSI ProPlus, Hach Turbidimeter

Time	—
pH s.u.	—
Cond. mS/cm	—
Turb. ntu	—
Dis. O_2 mg/L	—
Temp. °C	—
ORP mv	—

Surface Water Sampling Location Sketch



Comments (sample methodology, weather conditions, color, silt, etc.):
no flowing water, not sampled

Signature: B. Freyer **Date:** 9/19/13

QA/QC Sign Off: Paul G. Reeves **Date:** 11-12-13

DATE: 9/19/13

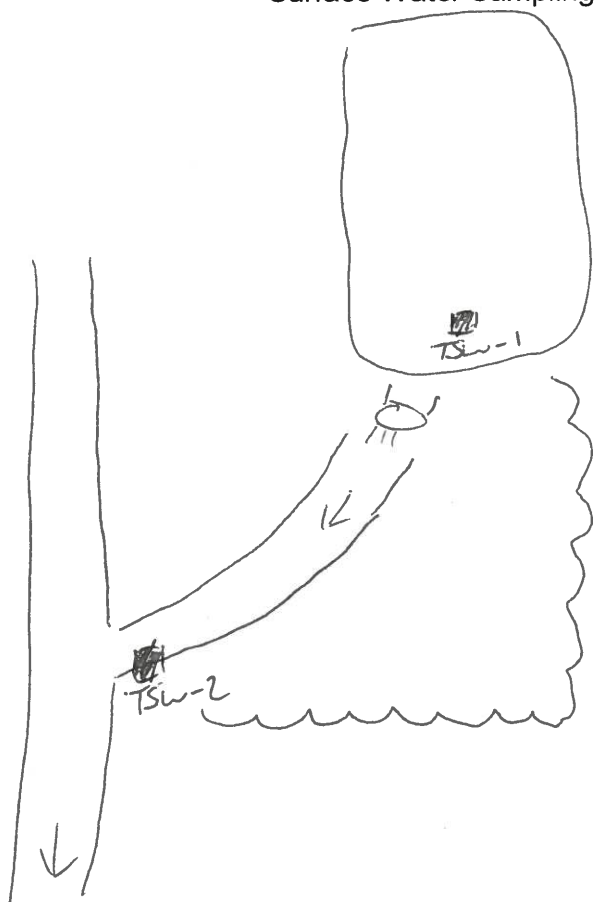
Golder Associates

SURFACE WATER SAMPLING LOG

Project Name: Henderson Co. **Project No./Phase No.:** *08396506013.100*
Sample ID: TSW-2 **Sampler(s):** *B. Freyer, D. Childress*
Sampling Location: stream below TSW-1
Equipment: *YSI ProPlus, Hach Turbidimeter*

Time	0930
pH s.u.	6.82
Cond. mS/cm	3.190
Turb. ntu	15.0
Dis. O_2 mg/L	5.06
Temp. °C	15.7
ORP mv	41.7

Surface Water Sampling Location Sketch



Comments (sample methodology, weather conditions, color, silt, etc.):
60's, overcast

Signature: [signature] **Date:** 9/19/13

QA/QC Sign Off: [signature] **Date:** 11-12-13

APPENDIX B

SEPTEMBER 2013 GROUNDWATER AND SURFACE WATER CERTIFICATE-OF-ANALYSIS, CHAIN-OF-CUSTODY FORMS AND LABORATORY DATA REVIEW

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

Wednesday, October 9, 2013

Golder Associates, Inc. (GO007)

Attn: Dusty Reedy

5B Oak Branch Drive

Greensboro, NC 27407

RE: Laboratory Results for
Project Number: 0839-6506013.100, Project Name/Desc: Henderson Co. LF
ENCO Workorder(s): C311142

Dear Dusty Reedy,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, September 20, 2013.

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

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

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

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

Sincerely,

Stephanie Franz

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 71.

PROJECT NARRATIVE

Date: 09 October 2013
Client: Golder Associates, Inc. (GO007)
Project: Henderson Co. LF
Lab ID: C311142

Overview

Environmental Conservation Laboratories, Inc. (ENCO) analyzed all submitted samples in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by ENCO are discussed in the QC Remarks section below.

Quality Control Samples

The spike recoveries of Benzene, Chlorobenzene, and Trichloroethene exceeded acceptance criteria for the 8260B MS and/or MSD samples, and precision between duplicate spikes of Chlorobenzene was outside of control limits. The QC batch was approved based on acceptable LCS recovery of these analytes.

The spike recovery of 2,4-D was outside of control limits for the 8151A MS and MSD samples. The QC batch was approved based on acceptable LCS recovery of this analyte.

Thallium was detected in the 6020A Method Blank at a low-level concentration (less than half of the MRL). Detections of this analyte should be considered to have a possible high bias if the concentration in the associated sample is not greater than ten times that of the detection in the Method Blank. The spike recoveries of Barium, Iron, Manganese, and Mercury were outside of control limits for the MS, MSD, and/or Post Spike samples. The QC batches were approved based on acceptable LCS recovery of these elements.

Quality Control Remarks

No Comments

Other Comments

The detection of Mercury in sample, AMW-2S, was confirmed by reprep and reanalysis. Only the original result is included in this report.

All samples received under this work order arrived in acceptable conditions. The samples were not checked for residual chlorine, as it is not required.

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative or in the Flags/Notes and Definitions section of the report.

Released By:
Environmental Conservation Laboratories, Inc.

Stephanie Franz
Project Manager

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4501-MW5 (Background) Lab ID: C311142-01 Sampled: 09/18/13 14:39 Received: 09/20/13 10:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/17/14	09/26/13 08:50	9/30/2013 12:52
EPA 6020A	03/17/14	10/01/13 09:41	10/2/2013 11:22
EPA 7470A	10/16/13	10/03/13 16:57	10/4/2013 16:05
EPA 8260B	10/02/13	09/26/13 16:35	9/27/2013 15:12

Client ID: 4501-MW6 Lab ID: C311142-02 Sampled: 09/18/13 16:17 Received: 09/20/13 10:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/17/14	09/26/13 08:50	9/30/2013 12:54
EPA 6020A	03/17/14	10/01/13 09:41	10/2/2013 11:26
EPA 7470A	10/16/13	10/03/13 16:57	10/4/2013 16:11
EPA 8260B	10/02/13	09/26/13 16:35	9/27/2013 15:42

Client ID: 4501-MW7 (MS/MSD) Lab ID: C311142-03 Sampled: 09/18/13 15:48 Received: 09/20/13 10:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/17/14	09/26/13 08:50	9/30/2013 12:38
EPA 6020A	03/17/14	10/01/13 09:41	10/2/2013 11:02
EPA 7470A	10/16/13	10/03/13 16:57	10/4/2013 15:35
EPA 8260B	10/02/13	09/26/13 16:35	9/27/2013 14:43

Client ID: 4501-MW8 Lab ID: C311142-04 Sampled: 09/18/13 15:14 Received: 09/20/13 10:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/17/14	09/26/13 08:50	9/30/2013 12:57
EPA 6020A	03/17/14	10/01/13 09:41	10/2/2013 11:30
EPA 7470A	10/16/13	10/03/13 16:57	10/4/2013 16:13
EPA 8260B	10/02/13	09/26/13 16:35	9/27/2013 16:12

Client ID: 4501-AMW1S Lab ID: C311142-06 Sampled: 09/19/13 10:31 Received: 09/20/13 10:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/18/14	09/26/13 08:50	9/30/2013 12:59
EPA 6020A	03/18/14	10/01/13 09:41	10/2/2013 11:42
EPA 7470A	10/17/13	10/03/13 16:57	10/4/2013 16:15
EPA 8260B	10/03/13	09/30/13 14:00	10/1/2013 09:56

Client ID: 4501-AMW1D Lab ID: C311142-07 Sampled: 09/19/13 10:42 Received: 09/20/13 10:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/18/14	09/26/13 08:50	9/30/2013 13:09
EPA 6020A	03/18/14	10/01/13 09:41	10/2/2013 11:46
EPA 7470A	10/17/13	10/03/13 16:57	10/4/2013 16:17
EPA 8260B	10/03/13	09/30/13 14:00	10/1/2013 10:26

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Client ID: 4501-AMW2S	Lab ID: C311142-08	Sampled: 09/19/13 11:36	Received: 09/20/13 10:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/18/14	09/26/13 08:50	9/30/2013 13:11
EPA 6020A	03/18/14	10/01/13 09:41	10/2/2013 11:50
EPA 7470A	10/17/13	10/03/13 16:57	10/4/2013 16:19
EPA 8260B	10/03/13	09/30/13 14:00	10/1/2013 10:56

Client ID: 4501-AMW2D	Lab ID: C311142-09	Sampled: 09/19/13 12:17	Received: 09/20/13 10:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/18/14	09/26/13 08:50	9/30/2013 13:13
EPA 6020A	03/18/14	10/01/13 09:41	10/2/2013 11:54
EPA 7470A	10/17/13	10/03/13 16:57	10/4/2013 16:22
EPA 8260B	10/03/13	09/30/13 14:00	10/1/2013 11:25

Client ID: 4501-BR1	Lab ID: C311142-10	Sampled: 09/19/13 08:28	Received: 09/20/13 10:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/18/14	09/26/13 08:50	9/30/2013 13:16
EPA 6020A	03/18/14	10/01/13 09:41	10/2/2013 11:58
EPA 8260B	10/03/13	09/30/13 14:00	10/1/2013 11:54

Client ID: 4501-BR2	Lab ID: C311142-11	Sampled: 09/19/13 08:50	Received: 09/20/13 10:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/18/14	09/26/13 08:50	9/30/2013 13:18
EPA 6020A	03/18/14	10/01/13 09:41	10/2/2013 12:02
EPA 8260B	10/03/13	09/30/13 14:00	10/1/2013 12:24

Client ID: 4501-BR3	Lab ID: C311142-12	Sampled: 09/19/13 12:00	Received: 09/20/13 10:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/18/14	09/26/13 08:50	9/30/2013 13:21
EPA 6020A	03/18/14	10/01/13 09:41	10/2/2013 12:06
EPA 8260B	10/03/13	09/30/13 14:00	10/1/2013 12:53

Client ID: 4501-SW1	Lab ID: C311142-13	Sampled: 09/19/13 12:45	Received: 09/20/13 10:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/18/14	09/26/13 08:50	9/30/2013 13:23
EPA 6020A	03/18/14	10/01/13 09:41	10/2/2013 12:10
EPA 8260B	10/03/13	09/30/13 14:00	10/1/2013 13:23

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Client ID: 4501-Field Blank	Lab ID: C311142-14	Sampled: 09/19/13 13:05	Received: 09/20/13 10:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	03/18/14		09/26/13	08:50	9/30/2013 13:25
EPA 6020A	03/18/14		10/01/13	09:41	10/2/2013 12:14
EPA 7470A	10/17/13		10/03/13	16:57	10/4/2013 16:24
EPA 8151A	09/26/13	11/03/13	09/24/13	10:00	9/25/2013 02:20
EPA 8260B	10/03/13		09/30/13	14:00	10/1/2013 13:52

Client ID: 4501-Trip Blank	Lab ID: C311142-15	Sampled: 09/18/13 14:39	Received: 09/20/13 10:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	10/02/13	09/26/13	16:35	9/27/2013 16:41

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4501-MW5 (Background) **Lab ID: C311142-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	57.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Copper - Total	5.69	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	2.71	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	12.0		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW6 **Lab ID: C311142-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,2-Dichlorobenzene	1.3	J	1	0.19	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	6.0		1	0.19	1.0	1	ug/L	EPA 8260B	
Acetone	34	J	1	1.2	5.0	100	ug/L	EPA 8260B	
Barium - Total	218		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	2.9		1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	4.8		1	0.17	1.0	3	ug/L	EPA 8260B	
Chromium - Total	4.80	J	1	1.40	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	0.53	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	43.8		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	9.55	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Ethylbenzene	0.79	J	1	0.13	1.0	1	ug/L	EPA 8260B	
Lead - Total	17.4		1	2.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	8.99	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	2.92	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Thallium - Total	0.127	JB	1	0.110	1.00	5.5	ug/L	EPA 6020A	J-01
Toluene	3.8		1	0.14	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	12.4	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Xylenes (Total)	0.81	J	1	0.45	3.0	5	ug/L	EPA 8260B	
Zinc - Total	45.7		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW7 (MS/MSD) **Lab ID: C311142-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,2-Dichlorobenzene	0.83	J	1	0.19	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	13		1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	590		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	1.7		1	0.15	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.105	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.785	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chlorobenzene	8.0		1	0.17	1.0	3	ug/L	EPA 8260B	
Chromium - Total	5.25	J	1	1.40	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	5.3		1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	18.7		1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	4.74	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Silver - Total	4.35	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Thallium - Total	0.604	JB	1	0.110	1.00	5.5	ug/L	EPA 6020A	J-01
Vinyl chloride	0.81	J	1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	5.04	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW8 **Lab ID: C311142-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	1.7	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.2		1	0.19	1.0	1	ug/L	EPA 8260B	

Client ID: 4501-MW8 **Lab ID: C311142-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	787		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.89	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	0.43	J	1	0.17	1.0	3	ug/L	EPA 8260B	
Chromium - Total	3.23	J	1	1.40	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	4.1	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	2.44	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Methylene chloride	1.0		1	0.23	1.0	1	ug/L	EPA 8260B	
Silver - Total	2.07	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Tetrachloroethene	2.8		1	0.17	1.0	1	ug/L	EPA 8260B	
Thallium - Total	0.609	JB	1	0.110	1.00	5.5	ug/L	EPA 6020A	J-01
Trichloroethene	1.3		1	0.15	1.0	1	ug/L	EPA 8260B	
Xylenes (Total)	1.8	J	1	0.45	3.0	5	ug/L	EPA 8260B	
Zinc - Total	40.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-AMW1S **Lab ID: C311142-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	0.73	J	1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	400		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.56	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.484	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.669	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chlorobenzene	4.1		1	0.17	1.0	3	ug/L	EPA 8260B	
Cobalt - Total	4.83	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Thallium - Total	0.459	JB	1	0.110	1.00	5.5	ug/L	EPA 6020A	J-01
Zinc - Total	4.40	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-AMW1D **Lab ID: C311142-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.71	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,2-Dichlorobenzene	0.65	J	1	0.19	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	4.1		1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	11.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	1.1		1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	5.2		1	0.17	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	1.4	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Vinyl chloride	0.48	J	1	0.32	1.0	1	ug/L	EPA 8260B	

Client ID: 4501-AMW2S **Lab ID: C311142-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	1.0	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.4		1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	26.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.86	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.331	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chlorobenzene	1.8	J	1	0.17	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	1.5	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	2.33	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	1.99	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	6.58	J	1	2.10	10.0	10	ug/L	EPA 6010C	
Mercury - Total	0.302		1	0.170	0.200	0.2	ug/L	EPA 7470A	
Vanadium - Total	9.96	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 4501-AMW2S **Lab ID: C311142-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Vinyl chloride	0.48	J	1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	27.3		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-AMW2D **Lab ID: C311142-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	2.75	J	1	1.00	10.0	100	ug/L	EPA 6010C	

Client ID: 4501-BR1 **Lab ID: C311142-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	49.8	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	3.01	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	5.72	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Zinc - Total	9.22	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-BR2 **Lab ID: C311142-11**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,2-Dichlorobenzene	0.48	J	1	0.19	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.7		1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	220		1	1.00	10.0	100	ug/L	EPA 6010C	
Chlorobenzene	0.55	J	1	0.17	1.0	3	ug/L	EPA 8260B	
Chromium - Total	1.92	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	3.55	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.51	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Zinc - Total	4.03	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-BR3 **Lab ID: C311142-12**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	162		1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	1.19	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Zinc - Total	12.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-SW1 **Lab ID: C311142-13**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	35.1	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	1.19	J	1	1.10	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-Field Blank **Lab ID: C311142-14**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	1.08	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Manganese - Total	1.75	J	1	1.10	10.0	50	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

Description: 4501-MW5 (Background) **Lab Sample ID:** C311142-01 **Received:** 09/20/13 10:15
Matrix: Ground Water **Sampled:** 09/18/13 14:39 **Work Order:** C311142
Project: Henderson Co. LF **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	09/27/13 15:12	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/27/13 15:12	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/27/13 15:12	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/27/13 15:12	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/27/13 15:12	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/27/13 15:12	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/27/13 15:12	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/27/13 15:12	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/27/13 15:12	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/27/13 15:12	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/27/13 15:12	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/27/13 15:12	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	09/27/13 15:12	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/27/13 15:12	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/27/13 15:12	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/27/13 15:12	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/27/13 15:12	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/27/13 15:12	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 15:12	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/27/13 15:12	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 15:12	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/27/13 15:12	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/27/13 15:12	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/27/13 15:12	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 15:12	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/27/13 15:12	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/27/13 15:12	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/27/13 15:12	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/27/13 15:12	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	09/27/13 15:12	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/27/13 15:12	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/27/13 15:12	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/27/13 15:12	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/27/13 15:12	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/27/13 15:12	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/27/13 15:12	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/27/13 15:12	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 15:12	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/27/13 15:12	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/27/13 15:12	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 15:12	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/27/13 15:12	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 15:12	REF	

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Description: 4501-MW5 (Background)	**Lab Sample ID:** C311142-01	**Received:** 09/20/13 10:15
Matrix: Ground Water	**Sampled:** 09/18/13 14:39	**Work Order:** C311142
Project: Henderson Co. LF	**Sampled By:** Daniel Childress	

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/27/13 15:12	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/27/13 15:12	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	09/27/13 15:12	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	09/27/13 15:12	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*83 %*	*51-122*	*3I26038*	*EPA 8260B*	*09/27/13 15:12*	*REF*	
Dibromofluoromethane	*41*	*1*	*50.0*	*83 %*	*68-117*	*3I26038*	*EPA 8260B*	*09/27/13 15:12*	*REF*	
Toluene-d8	*39*	*1*	*50.0*	*78 %*	*67-127*	*3I26038*	*EPA 8260B*	*09/27/13 15:12*	*REF*	

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Description:	4501-MW5 (Background)	**Lab Sample ID:**	C311142-01	**Received:**	09/20/13 10:15
Matrix:	Ground Water	**Sampled:**	09/18/13 14:39	**Work Order:**	C311142
Project:	Henderson Co. LF	**Sampled By:**	Daniel Childress		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/04/13 16:05	T1D	

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Description: 4501-MW5 (Background) | **Lab Sample ID:** C311142-01 | **Received:** 09/20/13 10:15

Matrix: Ground Water | **Sampled:** 09/18/13 14:39 | **Work Order:** C311142

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/02/13 11:22	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/30/13 12:52	JDH	
Barium [7440-39-3] ^	**57.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/30/13 12:52	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/30/13 12:52	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/30/13 12:52	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	09/30/13 12:52	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	09/30/13 12:52	JDH	
Copper [7440-50-8] ^	**5.69**	J	ug/L	1	1.60	10.0	10	EPA 6010C	09/30/13 12:52	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/30/13 12:52	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/30/13 12:52	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/30/13 12:52	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/30/13 12:52	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/02/13 11:22	VLO	
Vanadium [7440-62-2] ^	**2.71**	J	ug/L	1	1.40	10.0	25	EPA 6010C	09/30/13 12:52	JDH	
Zinc [7440-66-6] ^	**12.0**		ug/L	1	3.80	10.0	10	EPA 6010C	09/30/13 12:52	JDH	

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

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Description: 4501-MW6 | **Lab Sample ID:** C311142-02 | **Received:** 09/20/13 10:15

Matrix: Ground Water | **Sampled:** 09/18/13 16:17 | **Work Order:** C311142

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	09/27/13 15:42	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/27/13 15:42	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/27/13 15:42	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/27/13 15:42	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/27/13 15:42	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/27/13 15:42	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/27/13 15:42	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/27/13 15:42	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/27/13 15:42	REF	
1,2-Dichlorobenzene [95-50-1] ^	**1.3**	J	ug/L	1	0.19	1.0	5	EPA 8260B	09/27/13 15:42	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/27/13 15:42	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/27/13 15:42	REF	
1,4-Dichlorobenzene [106-46-7] ^	**6.0**		ug/L	1	0.19	1.0	1	EPA 8260B	09/27/13 15:42	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/27/13 15:42	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/27/13 15:42	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/27/13 15:42	REF	
Acetone [67-64-1] ^	**34**	J	ug/L	1	1.2	5.0	100	EPA 8260B	09/27/13 15:42	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/27/13 15:42	REF	
Benzene [71-43-2] ^	**2.9**		ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 15:42	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/27/13 15:42	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 15:42	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/27/13 15:42	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/27/13 15:42	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/27/13 15:42	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 15:42	REF	
Chlorobenzene [108-90-7] ^	**4.8**		ug/L	1	0.17	1.0	3	EPA 8260B	09/27/13 15:42	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/27/13 15:42	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/27/13 15:42	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/27/13 15:42	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**0.53**	J	ug/L	1	0.15	1.0	5	EPA 8260B	09/27/13 15:42	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/27/13 15:42	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/27/13 15:42	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/27/13 15:42	REF	
Ethylbenzene [100-41-4] ^	**0.79**	J	ug/L	1	0.13	1.0	1	EPA 8260B	09/27/13 15:42	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/27/13 15:42	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/27/13 15:42	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/27/13 15:42	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 15:42	REF	
Toluene [108-88-3] ^	**3.8**		ug/L	1	0.14	1.0	1	EPA 8260B	09/27/13 15:42	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/27/13 15:42	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 15:42	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/27/13 15:42	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 15:42	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/27/13 15:42	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/27/13 15:42	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	09/27/13 15:42	REF	

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Description: 4501-MW6
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C311142-02
Sampled: 09/18/13 16:17
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311142

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	**0.81**	J	ug/L	1	0.45	3.0	5	EPA 8260B	09/27/13 15:42	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*84 %*	*51-122*	*3I26038*	*EPA 8260B*	*09/27/13 15:42*	*REF*	
Dibromofluoromethane	*39*	*1*	*50.0*	*79 %*	*68-117*	*3I26038*	*EPA 8260B*	*09/27/13 15:42*	*REF*	
Toluene-d8	*40*	*1*	*50.0*	*81 %*	*67-127*	*3I26038*	*EPA 8260B*	*09/27/13 15:42*	*REF*	

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Description:	4501-MW6	**Lab Sample ID:**	C311142-02	**Received:**	09/20/13 10:15
Matrix:	Ground Water	**Sampled:**	09/18/13 16:17	**Work Order:**	C311142
Project:	Henderson Co. LF	**Sampled By:**	Daniel Childress		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/04/13 16:11	T1D	

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Description: 4501-MW6 | **Lab Sample ID:** C311142-02 | **Received:** 09/20/13 10:15

Matrix: Ground Water | **Sampled:** 09/18/13 16:17 | **Work Order:** C311142

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/02/13 11:26	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/30/13 12:54	JDH	
Barium [7440-39-3] ^	**218**		ug/L	1	1.00	10.0	100	EPA 6010C	09/30/13 12:54	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/30/13 12:54	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/30/13 12:54	JDH	
Chromium [7440-47-3] ^	**4.80**	J	ug/L	1	1.40	10.0	10	EPA 6010C	09/30/13 12:54	JDH	
Cobalt [7440-48-4] ^	**43.8**		ug/L	1	1.10	10.0	10	EPA 6010C	09/30/13 12:54	JDH	
Copper [7440-50-8] ^	**9.55**	J	ug/L	1	1.60	10.0	10	EPA 6010C	09/30/13 12:54	JDH	
Lead [7439-92-1] ^	**17.4**		ug/L	1	2.10	10.0	10	EPA 6010C	09/30/13 12:54	JDH	
Nickel [7440-02-0] ^	**8.99**	J	ug/L	1	1.80	10.0	50	EPA 6010C	09/30/13 12:54	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/30/13 12:54	JDH	
Silver [7440-22-4] ^	**2.92**	J	ug/L	1	1.90	10.0	10	EPA 6010C	09/30/13 12:54	JDH	
Thallium [7440-28-0] ^	**0.127**	JB	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/02/13 11:26	VLO	J-01
Vanadium [7440-62-2] ^	**12.4**	J	ug/L	1	1.40	10.0	25	EPA 6010C	09/30/13 12:54	JDH	
Zinc [7440-66-6] ^	**45.7**		ug/L	1	3.80	10.0	10	EPA 6010C	09/30/13 12:54	JDH	

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

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Description: 4501-MW7 (MS/MSD) | **Lab Sample ID:** C311142-03 | **Received:** 09/20/13 10:15

Matrix: Ground Water | **Sampled:** 09/18/13 15:48 | **Work Order:** C311142

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	09/27/13 14:43	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/27/13 14:43	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/27/13 14:43	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/27/13 14:43	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/27/13 14:43	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/27/13 14:43	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/27/13 14:43	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/27/13 14:43	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/27/13 14:43	REF	
1,2-Dichlorobenzene [95-50-1] ^	**0.83**	J	ug/L	1	0.19	1.0	5	EPA 8260B	09/27/13 14:43	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/27/13 14:43	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/27/13 14:43	REF	
1,4-Dichlorobenzene [106-46-7] ^	**13**		ug/L	1	0.19	1.0	1	EPA 8260B	09/27/13 14:43	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/27/13 14:43	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/27/13 14:43	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/27/13 14:43	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/27/13 14:43	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/27/13 14:43	REF	
Benzene [71-43-2] ^	**1.7**		ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 14:43	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/27/13 14:43	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 14:43	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/27/13 14:43	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/27/13 14:43	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/27/13 14:43	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 14:43	REF	
Chlorobenzene [108-90-7] ^	**8.0**		ug/L	1	0.17	1.0	3	EPA 8260B	09/27/13 14:43	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/27/13 14:43	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/27/13 14:43	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/27/13 14:43	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**5.3**		ug/L	1	0.15	1.0	5	EPA 8260B	09/27/13 14:43	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/27/13 14:43	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/27/13 14:43	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/27/13 14:43	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/27/13 14:43	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/27/13 14:43	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/27/13 14:43	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/27/13 14:43	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 14:43	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/27/13 14:43	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/27/13 14:43	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 14:43	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/27/13 14:43	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 14:43	REF	QM-07
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/27/13 14:43	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/27/13 14:43	REF	
Vinyl chloride [75-01-4] ^	**0.81**	J	ug/L	1	0.32	1.0	1	EPA 8260B	09/27/13 14:43	REF	

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Description: 4501-MW7 (MS/MSD)
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C311142-03
Sampled: 09/18/13 15:48
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311142

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	09/27/13 14:43	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*82 %*	*51-122*	*3I26038*	*EPA 8260B*	*09/27/13 14:43*	*REF*	
Dibromofluoromethane	*41*	*1*	*50.0*	*82 %*	*68-117*	*3I26038*	*EPA 8260B*	*09/27/13 14:43*	*REF*	
Toluene-d8	*41*	*1*	*50.0*	*81 %*	*67-127*	*3I26038*	*EPA 8260B*	*09/27/13 14:43*	*REF*	

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Description:	4501-MW7 (MS/MSD)	**Lab Sample ID:**	C311142-03	**Received:**	09/20/13 10:15
Matrix:	Ground Water	**Sampled:**	09/18/13 15:48	**Work Order:**	C311142
Project:	Henderson Co. LF	**Sampled By:**	Daniel Childress		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/04/13 15:35	T1D	

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Description: 4501-MW7 (MS/MSD) **Lab Sample ID:** C311142-03 **Received:** 09/20/13 10:15

Matrix: Ground Water **Sampled:** 09/18/13 15:48 **Work Order:** C311142

Project: Henderson Co. LF **Sampled By:** Daniel Childress

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/02/13 11:02	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/30/13 12:38	JDH	
Barium [7440-39-3] ^	**590**		ug/L	1	1.00	10.0	100	EPA 6010C	09/30/13 12:38	JDH	
Beryllium [7440-41-7] ^	**0.105**	J	ug/L	1	0.100	1.00	1	EPA 6010C	09/30/13 12:38	JDH	
Cadmium [7440-43-9] ^	**0.785**	J	ug/L	1	0.360	1.00	1	EPA 6010C	09/30/13 12:38	JDH	
Chromium [7440-47-3] ^	**5.25**	J	ug/L	1	1.40	10.0	10	EPA 6010C	09/30/13 12:38	JDH	
Cobalt [7440-48-4] ^	**18.7**		ug/L	1	1.10	10.0	10	EPA 6010C	09/30/13 12:38	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/30/13 12:38	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/30/13 12:38	JDH	
Nickel [7440-02-0] ^	**4.74**	J	ug/L	1	1.80	10.0	50	EPA 6010C	09/30/13 12:38	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/30/13 12:38	JDH	
Silver [7440-22-4] ^	**4.35**	J	ug/L	1	1.90	10.0	10	EPA 6010C	09/30/13 12:38	JDH	
Thallium [7440-28-0] ^	**0.604**	JB	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/02/13 11:02	VLO	J-01
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/30/13 12:38	JDH	
Zinc [7440-66-6] ^	**5.04**	J	ug/L	1	3.80	10.0	10	EPA 6010C	09/30/13 12:38	JDH	

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Description: 4501-MW8 | **Lab Sample ID:** C311142-04 | **Received:** 09/20/13 10:15

Matrix: Ground Water | **Sampled:** 09/18/13 15:14 | **Work Order:** C311142

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	09/27/13 16:12	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/27/13 16:12	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/27/13 16:12	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/27/13 16:12	REF	
1,1-Dichloroethane [75-34-3] ^	**1.7**	J	ug/L	1	0.13	1.0	5	EPA 8260B	09/27/13 16:12	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/27/13 16:12	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/27/13 16:12	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/27/13 16:12	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/27/13 16:12	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/27/13 16:12	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/27/13 16:12	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/27/13 16:12	REF	
1,4-Dichlorobenzene [106-46-7] ^	**1.2**		ug/L	1	0.19	1.0	1	EPA 8260B	09/27/13 16:12	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/27/13 16:12	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/27/13 16:12	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/27/13 16:12	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/27/13 16:12	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/27/13 16:12	REF	
Benzene [71-43-2] ^	**0.89**	J	ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 16:12	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/27/13 16:12	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 16:12	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/27/13 16:12	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/27/13 16:12	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/27/13 16:12	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 16:12	REF	
Chlorobenzene [108-90-7] ^	**0.43**	J	ug/L	1	0.17	1.0	3	EPA 8260B	09/27/13 16:12	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/27/13 16:12	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/27/13 16:12	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/27/13 16:12	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**4.1**	J	ug/L	1	0.15	1.0	5	EPA 8260B	09/27/13 16:12	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/27/13 16:12	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/27/13 16:12	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/27/13 16:12	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/27/13 16:12	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/27/13 16:12	REF	
Methylene chloride [75-09-2] ^	**1.0**		ug/L	1	0.23	1.0	1	EPA 8260B	09/27/13 16:12	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/27/13 16:12	REF	
Tetrachloroethene [127-18-4] ^	**2.8**		ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 16:12	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/27/13 16:12	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/27/13 16:12	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 16:12	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/27/13 16:12	REF	
Trichloroethene [79-01-6] ^	**1.3**		ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 16:12	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/27/13 16:12	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/27/13 16:12	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	09/27/13 16:12	REF	

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Description: 4501-MW8
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C311142-04
Sampled: 09/18/13 15:14
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311142

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	**1.8**	J	ug/L	1	0.45	3.0	5	EPA 8260B	09/27/13 16:12	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*82 %*	*51-122*	*3I26038*	*EPA 8260B*	*09/27/13 16:12*	*REF*	
Dibromofluoromethane	*40*	*1*	*50.0*	*81 %*	*68-117*	*3I26038*	*EPA 8260B*	*09/27/13 16:12*	*REF*	
Toluene-d8	*40*	*1*	*50.0*	*79 %*	*67-127*	*3I26038*	*EPA 8260B*	*09/27/13 16:12*	*REF*	

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Description:	4501-MW8	**Lab Sample ID:**	C311142-04	**Received:**	09/20/13 10:15
Matrix:	Ground Water	**Sampled:**	09/18/13 15:14	**Work Order:**	C311142
Project:	Henderson Co. LF	**Sampled By:**	Daniel Childress		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/04/13 16:13	T1D	

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Description: 4501-MW8 | **Lab Sample ID:** C311142-04 | **Received:** 09/20/13 10:15

Matrix: Ground Water | **Sampled:** 09/18/13 15:14 | **Work Order:** C311142

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/02/13 11:30	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/30/13 12:57	JDH	
Barium [7440-39-3] ^	**787**		ug/L	1	1.00	10.0	100	EPA 6010C	09/30/13 12:57	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/30/13 12:57	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/30/13 12:57	JDH	
Chromium [7440-47-3] ^	**3.23**	J	ug/L	1	1.40	10.0	10	EPA 6010C	09/30/13 12:57	JDH	
Cobalt [7440-48-4] ^	**2.44**	J	ug/L	1	1.10	10.0	10	EPA 6010C	09/30/13 12:57	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/30/13 12:57	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/30/13 12:57	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/30/13 12:57	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/30/13 12:57	JDH	
Silver [7440-22-4] ^	**2.07**	J	ug/L	1	1.90	10.0	10	EPA 6010C	09/30/13 12:57	JDH	
Thallium [7440-28-0] ^	**0.609**	JB	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/02/13 11:30	VLO	J-01
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/30/13 12:57	JDH	
Zinc [7440-66-6] ^	**40.5**		ug/L	1	3.80	10.0	10	EPA 6010C	09/30/13 12:57	JDH	

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Description: 4501-AMW1S
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C311142-06
Sampled: 09/19/13 10:31
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311142

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/01/13 09:56	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/01/13 09:56	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/01/13 09:56	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/01/13 09:56	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/01/13 09:56	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/01/13 09:56	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/01/13 09:56	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/01/13 09:56	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/01/13 09:56	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/01/13 09:56	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/01/13 09:56	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/01/13 09:56	REF	
1,4-Dichlorobenzene [106-46-7] ^	**0.73**	J	ug/L	1	0.19	1.0	1	EPA 8260B	10/01/13 09:56	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/01/13 09:56	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/01/13 09:56	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/01/13 09:56	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/01/13 09:56	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/01/13 09:56	REF	
Benzene [71-43-2] ^	**0.56**	J	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 09:56	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/01/13 09:56	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 09:56	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/01/13 09:56	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/01/13 09:56	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/01/13 09:56	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 09:56	REF	
Chlorobenzene [108-90-7] ^	**4.1**		ug/L	1	0.17	1.0	3	EPA 8260B	10/01/13 09:56	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/01/13 09:56	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/01/13 09:56	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/01/13 09:56	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/01/13 09:56	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/01/13 09:56	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/01/13 09:56	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/01/13 09:56	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/01/13 09:56	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/01/13 09:56	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/01/13 09:56	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/01/13 09:56	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 09:56	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/01/13 09:56	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/01/13 09:56	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 09:56	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/01/13 09:56	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 09:56	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/01/13 09:56	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/01/13 09:56	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/01/13 09:56	REF	

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Description: 4501-AMW1S
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C311142-06
Sampled: 09/19/13 10:31
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311142

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/01/13 09:56	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*77 %*	*51-122*	*3I30027*	*EPA 8260B*	*10/01/13 09:56*	*REF*	
Dibromofluoromethane	*39*	*1*	*50.0*	*77 %*	*68-117*	*3I30027*	*EPA 8260B*	*10/01/13 09:56*	*REF*	
Toluene-d8	*41*	*1*	*50.0*	*83 %*	*67-127*	*3I30027*	*EPA 8260B*	*10/01/13 09:56*	*REF*	

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Description: 4501-AMW1S
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C311142-06
Sampled: 09/19/13 10:31
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311142

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/04/13 16:15	T1D	

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Description: 4501-AMW1S
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C311142-06
Sampled: 09/19/13 10:31
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311142

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/02/13 11:42	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/30/13 12:59	JDH	
Barium [7440-39-3] ^	**400**		ug/L	1	1.00	10.0	100	EPA 6010C	09/30/13 12:59	JDH	
Beryllium [7440-41-7] ^	**0.484**	J	ug/L	1	0.100	1.00	1	EPA 6010C	09/30/13 12:59	JDH	
Cadmium [7440-43-9] ^	**0.669**	J	ug/L	1	0.360	1.00	1	EPA 6010C	09/30/13 12:59	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	09/30/13 12:59	JDH	
Cobalt [7440-48-4] ^	**4.83**	J	ug/L	1	1.10	10.0	10	EPA 6010C	09/30/13 12:59	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/30/13 12:59	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/30/13 12:59	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/30/13 12:59	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/30/13 12:59	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/30/13 12:59	JDH	
Thallium [7440-28-0] ^	**0.459**	JB	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/02/13 11:42	VLO	J-01
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/30/13 12:59	JDH	
Zinc [7440-66-6] ^	**4.40**	J	ug/L	1	3.80	10.0	10	EPA 6010C	09/30/13 12:59	JDH	

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

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Description: 4501-AMW1D
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C311142-07
Sampled: 09/19/13 10:42
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311142

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/01/13 10:26	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/01/13 10:26	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/01/13 10:26	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/01/13 10:26	REF	
1,1-Dichloroethane [75-34-3] ^	**0.71**	J	ug/L	1	0.13	1.0	5	EPA 8260B	10/01/13 10:26	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/01/13 10:26	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/01/13 10:26	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/01/13 10:26	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/01/13 10:26	REF	
1,2-Dichlorobenzene [95-50-1] ^	**0.65**	J	ug/L	1	0.19	1.0	5	EPA 8260B	10/01/13 10:26	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/01/13 10:26	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/01/13 10:26	REF	
1,4-Dichlorobenzene [106-46-7] ^	**4.1**		ug/L	1	0.19	1.0	1	EPA 8260B	10/01/13 10:26	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/01/13 10:26	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/01/13 10:26	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/01/13 10:26	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/01/13 10:26	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/01/13 10:26	REF	
Benzene [71-43-2] ^	**1.1**		ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 10:26	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/01/13 10:26	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 10:26	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/01/13 10:26	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/01/13 10:26	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/01/13 10:26	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 10:26	REF	
Chlorobenzene [108-90-7] ^	**5.2**		ug/L	1	0.17	1.0	3	EPA 8260B	10/01/13 10:26	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/01/13 10:26	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/01/13 10:26	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/01/13 10:26	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**1.4**	J	ug/L	1	0.15	1.0	5	EPA 8260B	10/01/13 10:26	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/01/13 10:26	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/01/13 10:26	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/01/13 10:26	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/01/13 10:26	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/01/13 10:26	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/01/13 10:26	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/01/13 10:26	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 10:26	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/01/13 10:26	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/01/13 10:26	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 10:26	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/01/13 10:26	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 10:26	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/01/13 10:26	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/01/13 10:26	REF	
Vinyl chloride [75-01-4] ^	**0.48**	J	ug/L	1	0.32	1.0	1	EPA 8260B	10/01/13 10:26	REF	

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Description:	4501-AMW1D	**Lab Sample ID:**	C311142-07	**Received:**	09/20/13 10:15
Matrix:	Ground Water	**Sampled:**	09/19/13 10:42	**Work Order:**	C311142
Project:	Henderson Co. LF	**Sampled By:**	Daniel Childress		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/01/13 10:26	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*77 %*	*51-122*	*3I30027*	*EPA 8260B*	*10/01/13 10:26*	*REF*	
Dibromofluoromethane	*39*	*1*	*50.0*	*77 %*	*68-117*	*3I30027*	*EPA 8260B*	*10/01/13 10:26*	*REF*	
Toluene-d8	*42*	*1*	*50.0*	*83 %*	*67-127*	*3I30027*	*EPA 8260B*	*10/01/13 10:26*	*REF*	

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Description:	4501-AMW1D	**Lab Sample ID:**	C311142-07	**Received:**	09/20/13 10:15
Matrix:	Ground Water	**Sampled:**	09/19/13 10:42	**Work Order:**	C311142
Project:	Henderson Co. LF	**Sampled By:**	Daniel Childress		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/04/13 16:17	T1D	

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Description: 4501-AMW1D
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C311142-07
Sampled: 09/19/13 10:42
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311142

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/02/13 11:46	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/30/13 13:09	JDH	
Barium [7440-39-3] ^	**11.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/30/13 13:09	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/30/13 13:09	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/30/13 13:09	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	09/30/13 13:09	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	09/30/13 13:09	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/30/13 13:09	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/30/13 13:09	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/30/13 13:09	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/30/13 13:09	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/30/13 13:09	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/02/13 11:46	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/30/13 13:09	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	09/30/13 13:09	JDH	

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

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Description: 4501-AMW2S
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C311142-08
Sampled: 09/19/13 11:36
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311142

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/01/13 10:56	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/01/13 10:56	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/01/13 10:56	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/01/13 10:56	REF	
1,1-Dichloroethane [75-34-3] ^	**1.0**	J	ug/L	1	0.13	1.0	5	EPA 8260B	10/01/13 10:56	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/01/13 10:56	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/01/13 10:56	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/01/13 10:56	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/01/13 10:56	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/01/13 10:56	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/01/13 10:56	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/01/13 10:56	REF	
1,4-Dichlorobenzene [106-46-7] ^	**1.4**		ug/L	1	0.19	1.0	1	EPA 8260B	10/01/13 10:56	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/01/13 10:56	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/01/13 10:56	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/01/13 10:56	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/01/13 10:56	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/01/13 10:56	REF	
Benzene [71-43-2] ^	**0.86**	J	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 10:56	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/01/13 10:56	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 10:56	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/01/13 10:56	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/01/13 10:56	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/01/13 10:56	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 10:56	REF	
Chlorobenzene [108-90-7] ^	**1.8**	J	ug/L	1	0.17	1.0	3	EPA 8260B	10/01/13 10:56	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/01/13 10:56	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/01/13 10:56	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/01/13 10:56	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**1.5**	J	ug/L	1	0.15	1.0	5	EPA 8260B	10/01/13 10:56	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/01/13 10:56	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/01/13 10:56	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/01/13 10:56	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/01/13 10:56	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/01/13 10:56	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/01/13 10:56	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/01/13 10:56	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 10:56	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/01/13 10:56	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/01/13 10:56	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 10:56	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/01/13 10:56	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 10:56	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/01/13 10:56	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/01/13 10:56	REF	
Vinyl chloride [75-01-4] ^	**0.48**	J	ug/L	1	0.32	1.0	1	EPA 8260B	10/01/13 10:56	REF	

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Description: 4501-AMW2S
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C311142-08
Sampled: 09/19/13 11:36
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311142

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/01/13 10:56	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*37*	*1*	*50.0*	*74 %*	*51-122*	*3I30027*	*EPA 8260B*	*10/01/13 10:56*	*REF*	
Dibromofluoromethane	*39*	*1*	*50.0*	*77 %*	*68-117*	*3I30027*	*EPA 8260B*	*10/01/13 10:56*	*REF*	
Toluene-d8	*41*	*1*	*50.0*	*81 %*	*67-127*	*3I30027*	*EPA 8260B*	*10/01/13 10:56*	*REF*	

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Description:	4501-AMW2S	**Lab Sample ID:**	C311142-08	**Received:**	09/20/13 10:15
Matrix:	Ground Water	**Sampled:**	09/19/13 11:36	**Work Order:**	C311142
Project:	Henderson Co. LF	**Sampled By:**	Daniel Childress		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.302**		ug/L	1	0.170	0.200	0.2	EPA 7470A	10/04/13 16:19	T1D	

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Description: 4501-AMW2S
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C311142-08
Sampled: 09/19/13 11:36
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311142

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/02/13 11:50	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/30/13 13:11	JDH	
Barium [7440-39-3] ^	**26.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/30/13 13:11	JDH	
Beryllium [7440-41-7] ^	**0.331**	J	ug/L	1	0.100	1.00	1	EPA 6010C	09/30/13 13:11	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/30/13 13:11	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	09/30/13 13:11	JDH	
Cobalt [7440-48-4] ^	**2.33**	J	ug/L	1	1.10	10.0	10	EPA 6010C	09/30/13 13:11	JDH	
Copper [7440-50-8] ^	**1.99**	J	ug/L	1	1.60	10.0	10	EPA 6010C	09/30/13 13:11	JDH	
Lead [7439-92-1] ^	**6.58**	J	ug/L	1	2.10	10.0	10	EPA 6010C	09/30/13 13:11	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/30/13 13:11	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/30/13 13:11	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/30/13 13:11	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/02/13 11:50	VLO	
Vanadium [7440-62-2] ^	**9.96**	J	ug/L	1	1.40	10.0	25	EPA 6010C	09/30/13 13:11	JDH	
Zinc [7440-66-6] ^	**27.3**		ug/L	1	3.80	10.0	10	EPA 6010C	09/30/13 13:11	JDH	

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

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Description: 4501-AMW2D
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C311142-09
Sampled: 09/19/13 12:17
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311142

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/01/13 11:25	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/01/13 11:25	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/01/13 11:25	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/01/13 11:25	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/01/13 11:25	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/01/13 11:25	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/01/13 11:25	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/01/13 11:25	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/01/13 11:25	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/01/13 11:25	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/01/13 11:25	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/01/13 11:25	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/01/13 11:25	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/01/13 11:25	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/01/13 11:25	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/01/13 11:25	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/01/13 11:25	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/01/13 11:25	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 11:25	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/01/13 11:25	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 11:25	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/01/13 11:25	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/01/13 11:25	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/01/13 11:25	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 11:25	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/01/13 11:25	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/01/13 11:25	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/01/13 11:25	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/01/13 11:25	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/01/13 11:25	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/01/13 11:25	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/01/13 11:25	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/01/13 11:25	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/01/13 11:25	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/01/13 11:25	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/01/13 11:25	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/01/13 11:25	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 11:25	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/01/13 11:25	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/01/13 11:25	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 11:25	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/01/13 11:25	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 11:25	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/01/13 11:25	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/01/13 11:25	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/01/13 11:25	REF	

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Description: 4501-AMW2D
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C311142-09
Sampled: 09/19/13 12:17
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311142

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/01/13 11:25	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*38*	*1*	*50.0*	*75 %*	*51-122*	*3I30027*	*EPA 8260B*	*10/01/13 11:25*	*REF*	
Dibromofluoromethane	*40*	*1*	*50.0*	*79 %*	*68-117*	*3I30027*	*EPA 8260B*	*10/01/13 11:25*	*REF*	
Toluene-d8	*41*	*1*	*50.0*	*83 %*	*67-127*	*3I30027*	*EPA 8260B*	*10/01/13 11:25*	*REF*	

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Description:	4501-AMW2D	**Lab Sample ID:**	C311142-09	**Received:**	09/20/13 10:15
Matrix:	Ground Water	**Sampled:**	09/19/13 12:17	**Work Order:**	C311142
Project:	Henderson Co. LF	**Sampled By:**	Daniel Childress		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/04/13 16:22	T1D	

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Description: 4501-AMW2D
Matrix: Ground Water
Project: Henderson Co. LF

Lab Sample ID: C311142-09
Sampled: 09/19/13 12:17
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311142

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/02/13 11:54	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/30/13 13:13	JDH	
Barium [7440-39-3] ^	**2.75**	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/30/13 13:13	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/30/13 13:13	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/30/13 13:13	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	09/30/13 13:13	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	09/30/13 13:13	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/30/13 13:13	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/30/13 13:13	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/30/13 13:13	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/30/13 13:13	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/30/13 13:13	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/02/13 11:54	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/30/13 13:13	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	09/30/13 13:13	JDH	

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

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Description: 4501-BR1 | **Lab Sample ID:** C311142-10 | **Received:** 09/20/13 10:15

Matrix: Surface Water | **Sampled:** 09/19/13 08:28 | **Work Order:** C311142

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/01/13 11:54	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/01/13 11:54	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/01/13 11:54	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/01/13 11:54	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/01/13 11:54	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/01/13 11:54	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/01/13 11:54	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/01/13 11:54	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/01/13 11:54	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/01/13 11:54	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/01/13 11:54	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/01/13 11:54	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/01/13 11:54	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/01/13 11:54	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/01/13 11:54	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/01/13 11:54	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/01/13 11:54	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/01/13 11:54	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 11:54	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/01/13 11:54	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 11:54	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/01/13 11:54	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/01/13 11:54	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/01/13 11:54	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 11:54	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/01/13 11:54	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/01/13 11:54	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/01/13 11:54	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/01/13 11:54	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/01/13 11:54	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/01/13 11:54	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/01/13 11:54	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/01/13 11:54	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/01/13 11:54	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/01/13 11:54	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/01/13 11:54	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/01/13 11:54	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 11:54	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/01/13 11:54	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/01/13 11:54	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 11:54	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/01/13 11:54	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 11:54	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/01/13 11:54	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/01/13 11:54	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/01/13 11:54	REF	

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Description: 4501-BR1
Matrix: Surface Water
Project: Henderson Co. LF

Lab Sample ID: C311142-10
Sampled: 09/19/13 08:28
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311142

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/01/13 11:54	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*78 %*	*51-122*	*3I30027*	*EPA 8260B*	*10/01/13 11:54*	*REF*	
Dibromofluoromethane	*40*	*1*	*50.0*	*81 %*	*68-117*	*3I30027*	*EPA 8260B*	*10/01/13 11:54*	*REF*	
Toluene-d8	*42*	*1*	*50.0*	*85 %*	*67-127*	*3I30027*	*EPA 8260B*	*10/01/13 11:54*	*REF*	

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Description: 4501-BR1 | **Lab Sample ID:** C311142-10 | **Received:** 09/20/13 10:15

Matrix: Surface Water | **Sampled:** 09/19/13 08:28 | **Work Order:** C311142

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/02/13 11:58	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/30/13 13:16	JDH	
Barium [7440-39-3] ^	**49.8**	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/30/13 13:16	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/30/13 13:16	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/30/13 13:16	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	09/30/13 13:16	JDH	
Cobalt [7440-48-4] ^	**3.01**	J	ug/L	1	1.10	10.0	10	EPA 6010C	09/30/13 13:16	JDH	
Copper [7440-50-8] ^	**5.72**	J	ug/L	1	1.60	10.0	10	EPA 6010C	09/30/13 13:16	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/30/13 13:16	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/30/13 13:16	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/30/13 13:16	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/30/13 13:16	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/02/13 11:58	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/30/13 13:16	JDH	
Zinc [7440-66-6] ^	**9.22**	J	ug/L	1	3.80	10.0	10	EPA 6010C	09/30/13 13:16	JDH	

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

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Description: 4501-BR2 | **Lab Sample ID:** C311142-11 | **Received:** 09/20/13 10:15

Matrix: Surface Water | **Sampled:** 09/19/13 08:50 | **Work Order:** C311142

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/01/13 12:24	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/01/13 12:24	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/01/13 12:24	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/01/13 12:24	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/01/13 12:24	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/01/13 12:24	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/01/13 12:24	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/01/13 12:24	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/01/13 12:24	REF	
1,2-Dichlorobenzene [95-50-1] ^	**0.48**	J	ug/L	1	0.19	1.0	5	EPA 8260B	10/01/13 12:24	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/01/13 12:24	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/01/13 12:24	REF	
1,4-Dichlorobenzene [106-46-7] ^	**1.7**		ug/L	1	0.19	1.0	1	EPA 8260B	10/01/13 12:24	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/01/13 12:24	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/01/13 12:24	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/01/13 12:24	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/01/13 12:24	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/01/13 12:24	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 12:24	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/01/13 12:24	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 12:24	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/01/13 12:24	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/01/13 12:24	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/01/13 12:24	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 12:24	REF	
Chlorobenzene [108-90-7] ^	**0.55**	J	ug/L	1	0.17	1.0	3	EPA 8260B	10/01/13 12:24	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/01/13 12:24	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/01/13 12:24	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/01/13 12:24	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/01/13 12:24	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/01/13 12:24	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/01/13 12:24	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/01/13 12:24	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/01/13 12:24	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/01/13 12:24	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/01/13 12:24	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/01/13 12:24	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 12:24	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/01/13 12:24	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/01/13 12:24	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 12:24	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/01/13 12:24	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 12:24	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/01/13 12:24	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/01/13 12:24	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/01/13 12:24	REF	

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Description: 4501-BR2
Matrix: Surface Water
Project: Henderson Co. LF

Lab Sample ID: C311142-11
Sampled: 09/19/13 08:50
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311142

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/01/13 12:24	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*38*	*1*	*50.0*	*77 %*	*51-122*	*3I30027*	*EPA 8260B*	*10/01/13 12:24*	*REF*	
Dibromofluoromethane	*41*	*1*	*50.0*	*81 %*	*68-117*	*3I30027*	*EPA 8260B*	*10/01/13 12:24*	*REF*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*67-127*	*3I30027*	*EPA 8260B*	*10/01/13 12:24*	*REF*	

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Description: 4501-BR2 | **Lab Sample ID:** C311142-11 | **Received:** 09/20/13 10:15

Matrix: Surface Water | **Sampled:** 09/19/13 08:50 | **Work Order:** C311142

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/02/13 12:02	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/30/13 13:18	JDH	
Barium [7440-39-3] ^	**220**		ug/L	1	1.00	10.0	100	EPA 6010C	09/30/13 13:18	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/30/13 13:18	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/30/13 13:18	JDH	
Chromium [7440-47-3] ^	**1.92**	J	ug/L	1	1.40	10.0	10	EPA 6010C	09/30/13 13:18	JDH	
Cobalt [7440-48-4] ^	**3.55**	J	ug/L	1	1.10	10.0	10	EPA 6010C	09/30/13 13:18	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/30/13 13:18	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/30/13 13:18	JDH	
Nickel [7440-02-0] ^	**2.51**	J	ug/L	1	1.80	10.0	50	EPA 6010C	09/30/13 13:18	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/30/13 13:18	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/30/13 13:18	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/02/13 12:02	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/30/13 13:18	JDH	
Zinc [7440-66-6] ^	**4.03**	J	ug/L	1	3.80	10.0	10	EPA 6010C	09/30/13 13:18	JDH	

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

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Description: 4501-BR3 | **Lab Sample ID:** C311142-12 | **Received:** 09/20/13 10:15

Matrix: Surface Water | **Sampled:** 09/19/13 12:00 | **Work Order:** C311142

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/01/13 12:53	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/01/13 12:53	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/01/13 12:53	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/01/13 12:53	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/01/13 12:53	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/01/13 12:53	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/01/13 12:53	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/01/13 12:53	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/01/13 12:53	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/01/13 12:53	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/01/13 12:53	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/01/13 12:53	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/01/13 12:53	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/01/13 12:53	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/01/13 12:53	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/01/13 12:53	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/01/13 12:53	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/01/13 12:53	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 12:53	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/01/13 12:53	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 12:53	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/01/13 12:53	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/01/13 12:53	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/01/13 12:53	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 12:53	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/01/13 12:53	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/01/13 12:53	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/01/13 12:53	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/01/13 12:53	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/01/13 12:53	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/01/13 12:53	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/01/13 12:53	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/01/13 12:53	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/01/13 12:53	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/01/13 12:53	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/01/13 12:53	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/01/13 12:53	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 12:53	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/01/13 12:53	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/01/13 12:53	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 12:53	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/01/13 12:53	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 12:53	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/01/13 12:53	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/01/13 12:53	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/01/13 12:53	REF	

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Description: 4501-BR3
Matrix: Surface Water
Project: Henderson Co. LF

Lab Sample ID: C311142-12
Sampled: 09/19/13 12:00
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311142

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/01/13 12:53	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*78 %*	*51-122*	*3I30027*	*EPA 8260B*	*10/01/13 12:53*	*REF*	
Dibromofluoromethane	*40*	*1*	*50.0*	*80 %*	*68-117*	*3I30027*	*EPA 8260B*	*10/01/13 12:53*	*REF*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*67-127*	*3I30027*	*EPA 8260B*	*10/01/13 12:53*	*REF*	

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Description: 4501-BR3 | **Lab Sample ID:** C311142-12 | **Received:** 09/20/13 10:15

Matrix: Surface Water | **Sampled:** 09/19/13 12:00 | **Work Order:** C311142

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/02/13 12:06	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/30/13 13:21	JDH	
Barium [7440-39-3] ^	**162**		ug/L	1	1.00	10.0	100	EPA 6010C	09/30/13 13:21	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/30/13 13:21	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/30/13 13:21	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	09/30/13 13:21	JDH	
Cobalt [7440-48-4] ^	**1.19**	J	ug/L	1	1.10	10.0	10	EPA 6010C	09/30/13 13:21	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/30/13 13:21	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/30/13 13:21	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/30/13 13:21	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/30/13 13:21	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/30/13 13:21	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/02/13 12:06	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/30/13 13:21	JDH	
Zinc [7440-66-6] ^	**12.5**		ug/L	1	3.80	10.0	10	EPA 6010C	09/30/13 13:21	JDH	

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

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Description: 4501-SW1 | **Lab Sample ID:** C311142-13 | **Received:** 09/20/13 10:15

Matrix: Surface Water | **Sampled:** 09/19/13 12:45 | **Work Order:** C311142

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/01/13 13:23	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/01/13 13:23	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/01/13 13:23	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/01/13 13:23	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/01/13 13:23	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/01/13 13:23	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/01/13 13:23	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/01/13 13:23	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/01/13 13:23	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/01/13 13:23	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/01/13 13:23	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/01/13 13:23	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/01/13 13:23	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/01/13 13:23	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/01/13 13:23	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/01/13 13:23	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/01/13 13:23	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/01/13 13:23	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 13:23	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/01/13 13:23	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 13:23	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/01/13 13:23	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/01/13 13:23	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/01/13 13:23	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 13:23	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/01/13 13:23	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/01/13 13:23	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/01/13 13:23	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/01/13 13:23	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/01/13 13:23	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/01/13 13:23	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/01/13 13:23	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/01/13 13:23	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/01/13 13:23	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/01/13 13:23	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/01/13 13:23	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/01/13 13:23	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 13:23	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/01/13 13:23	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/01/13 13:23	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 13:23	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/01/13 13:23	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 13:23	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/01/13 13:23	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/01/13 13:23	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/01/13 13:23	REF	

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Description: 4501-SW1
Matrix: Surface Water
Project: Henderson Co. LF

Lab Sample ID: C311142-13
Sampled: 09/19/13 12:45
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311142

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/01/13 13:23	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*77 %*	*51-122*	*3I30027*	*EPA 8260B*	*10/01/13 13:23*	*REF*	
Dibromofluoromethane	*40*	*1*	*50.0*	*80 %*	*68-117*	*3I30027*	*EPA 8260B*	*10/01/13 13:23*	*REF*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*67-127*	*3I30027*	*EPA 8260B*	*10/01/13 13:23*	*REF*	

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Description: 4501-SW1 | **Lab Sample ID:** C311142-13 | **Received:** 09/20/13 10:15

Matrix: Surface Water | **Sampled:** 09/19/13 12:45 | **Work Order:** C311142

Project: Henderson Co. LF | **Sampled By:** Daniel Childress

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/02/13 12:10	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/30/13 13:23	JDH	
Barium [7440-39-3] ^	**35.1**	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/30/13 13:23	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/30/13 13:23	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/30/13 13:23	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	09/30/13 13:23	JDH	
Cobalt [7440-48-4] ^	**1.19**	J	ug/L	1	1.10	10.0	10	EPA 6010C	09/30/13 13:23	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/30/13 13:23	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/30/13 13:23	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/30/13 13:23	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/30/13 13:23	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/30/13 13:23	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/02/13 12:10	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/30/13 13:23	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	09/30/13 13:23	JDH	

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

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Description: 4501-Field Blank
Matrix: Water
Project: Henderson Co. LF

Lab Sample ID: C311142-14
Sampled: 09/19/13 13:05
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311142

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/01/13 13:52	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/01/13 13:52	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/01/13 13:52	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/01/13 13:52	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/01/13 13:52	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/01/13 13:52	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/01/13 13:52	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/01/13 13:52	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/01/13 13:52	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/01/13 13:52	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/01/13 13:52	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/01/13 13:52	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/01/13 13:52	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/01/13 13:52	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/01/13 13:52	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/01/13 13:52	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/01/13 13:52	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/01/13 13:52	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 13:52	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/01/13 13:52	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 13:52	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/01/13 13:52	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/01/13 13:52	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/01/13 13:52	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 13:52	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/01/13 13:52	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/01/13 13:52	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/01/13 13:52	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/01/13 13:52	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/01/13 13:52	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/01/13 13:52	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/01/13 13:52	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/01/13 13:52	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/01/13 13:52	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/01/13 13:52	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/01/13 13:52	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/01/13 13:52	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/13 13:52	REF	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0	NE	EPA 8260B	10/01/13 13:52	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/01/13 13:52	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/01/13 13:52	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 13:52	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/01/13 13:52	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/13 13:52	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/01/13 13:52	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/01/13 13:52	REF	

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Description: 4501-Field Blank
Matrix: Water
Project: Henderson Co. LF

Lab Sample ID: C311142-14
Sampled: 09/19/13 13:05
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311142

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/01/13 13:52	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/01/13 13:52	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*38*	*1*	*50.0*	*76 %*	*51-122*	*3I30027*	*EPA 8260B*	*10/01/13 13:52*	*REF*	
Dibromofluoromethane	*40*	*1*	*50.0*	*80 %*	*68-117*	*3I30027*	*EPA 8260B*	*10/01/13 13:52*	*REF*	
Toluene-d8	*41*	*1*	*50.0*	*82 %*	*67-127*	*3I30027*	*EPA 8260B*	*10/01/13 13:52*	*REF*	

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Description:	4501-Field Blank	**Lab Sample ID:**	C311142-14	**Received:**	09/20/13 10:15
Matrix:	Water	**Sampled:**	09/19/13 13:05	**Work Order:**	C311142
Project:	Henderson Co. LF	**Sampled By:**	Daniel Childress		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/04/13 16:24	T1D	

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Description: 4501-Field Blank
Matrix: Water
Project: Henderson Co. LF

Lab Sample ID: C311142-14
Sampled: 09/19/13 13:05
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311142

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/02/13 12:14	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/30/13 13:25	JDH	
Barium [7440-39-3] ^	**1.08**	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/30/13 13:25	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/30/13 13:25	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/30/13 13:25	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	09/30/13 13:25	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	09/30/13 13:25	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/30/13 13:25	JDH	
Iron [7439-89-6] ^	22.0	U	ug/L	1	22.0	50.0	300	EPA 6010C	09/30/13 13:25	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/30/13 13:25	JDH	
Manganese [7439-96-5] ^	**1.75**	J	ug/L	1	1.10	10.0	50	EPA 6010C	09/30/13 13:25	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/30/13 13:25	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/30/13 13:25	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/30/13 13:25	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/02/13 12:14	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/30/13 13:25	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	09/30/13 13:25	JDH	

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Description:	4501-Field Blank	**Lab Sample ID:**	C311142-14	**Received:**	09/20/13 10:15
Matrix:	Water	**Sampled:**	09/19/13 13:05	**Work Order:**	C311142
Project:	Henderson Co. LF	**Sampled By:**	Daniel Childress		

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	09/25/13 02:20	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.3*	*1*	*2.00*	*116 %*	*68-139*	*3I23037*	*EPA 8151A*	*09/25/13 02:20*	*RGG*	

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Description: 4501-Trip Blank
Matrix: Water
Project: Henderson Co. LF

Lab Sample ID: C311142-15
Sampled: 09/18/13 14:39
Sampled By: ENCO

Received: 09/20/13 10:15
Work Order: C311142

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	09/27/13 16:41	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/27/13 16:41	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/27/13 16:41	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/27/13 16:41	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/27/13 16:41	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/27/13 16:41	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/27/13 16:41	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/27/13 16:41	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/27/13 16:41	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/27/13 16:41	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/27/13 16:41	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/27/13 16:41	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	09/27/13 16:41	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/27/13 16:41	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/27/13 16:41	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/27/13 16:41	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/27/13 16:41	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/27/13 16:41	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 16:41	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/27/13 16:41	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 16:41	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/27/13 16:41	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/27/13 16:41	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/27/13 16:41	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 16:41	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/27/13 16:41	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/27/13 16:41	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/27/13 16:41	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/27/13 16:41	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	09/27/13 16:41	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/27/13 16:41	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/27/13 16:41	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/27/13 16:41	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/27/13 16:41	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/27/13 16:41	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/27/13 16:41	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/27/13 16:41	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 16:41	REF	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0	NE	EPA 8260B	09/27/13 16:41	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/27/13 16:41	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/27/13 16:41	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 16:41	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/27/13 16:41	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 16:41	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/27/13 16:41	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/27/13 16:41	REF	

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Description: 4501-Trip Blank
Matrix: Water
Project: Henderson Co. LF

Lab Sample ID: C311142-15
Sampled: 09/18/13 14:39
Sampled By: ENCO

Received: 09/20/13 10:15
Work Order: C311142

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	09/27/13 16:41	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	09/27/13 16:41	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*83 %*	*51-122*	*3I26038*	*EPA 8260B*	*09/27/13 16:41*	*REF*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*68-117*	*3I26038*	*EPA 8260B*	*09/27/13 16:41*	*REF*	
Toluene-d8	*41*	*1*	*50.0*	*82 %*	*67-127*	*3I26038*	*EPA 8260B*	*09/27/13 16:41*	*REF*	

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

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3I26038 - EPA 5030B_MS

Blank (3I26038-BLK1) Prepared: 09/26/2013 15:58 Analyzed: 09/27/2013 12:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Tetrahydrofuran	0.80	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3I26038 - EPA 5030B_MS

Blank (3I26038-BLK1) Continued Prepared: 09/26/2013 15:58 Analyzed: 09/27/2013 12:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*41*			*ug/L*	*50.0*		*82*	*51-122*			
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*85*	*68-117*			
Surrogate: Toluene-d8	*39*			*ug/L*	*50.0*		*79*	*67-127*			

LCS (3I26038-BS1) Prepared: 09/26/2013 15:58 Analyzed: 09/27/2013 13:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		102	75-133			
Benzene	20		1.0	ug/L	20.0		98	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		103	83-117			
Toluene	17		1.0	ug/L	20.0		87	71-118			
Trichloroethene	21		1.0	ug/L	20.0		107	74-119			

Matrix Spike (3I26038-MS1) Prepared: 09/26/2013 15:58 Analyzed: 09/27/2013 13:43

Source: C311142-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	112	75-133			
Benzene	23		1.0	ug/L	20.0	1.7	107	81-134			
Chlorobenzene	31		1.0	ug/L	20.0	8.0	115	83-117			
Toluene	18		1.0	ug/L	20.0	0.14 U	92	71-118			
Trichloroethene	24		1.0	ug/L	20.0	0.15 U	122	74-119			QM-07

Matrix Spike Dup (3I26038-MSD1) Prepared: 09/26/2013 15:58 Analyzed: 09/27/2013 14:13

Source: C311142-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	111	75-133	0.9	20	
Benzene	23		1.0	ug/L	20.0	1.7	105	81-134	2	17	
Chlorobenzene	31		1.0	ug/L	20.0	8.0	115	83-117	0.06	16	
Toluene	19		1.0	ug/L	20.0	0.14 U	96	71-118	5	17	
Trichloroethene	23		1.0	ug/L	20.0	0.15 U	117	74-119	4	22	

Batch 3I30027 - EPA 5030B_MS

Blank (3I30027-BLK1) Prepared: 09/30/2013 14:00 Analyzed: 10/01/2013 04:03

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

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3I30027 - EPA 5030B_MS

Blank (3I30027-BLK1) Continued Prepared: 09/30/2013 14:00 Analyzed: 10/01/2013 04:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Tetrahydrofuran	0.80	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*39*			*ug/L*	*50.0*		*77*	*51-122*			
Surrogate: Dibromofluoromethane	*41*			*ug/L*	*50.0*		*81*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*67-127*			

LCS (3I30027-BS1) Prepared: 09/30/2013 14:00 Analyzed: 10/01/2013 04:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		108	75-133			
Benzene	20		1.0	ug/L	20.0		102	81-134			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3I30027 - EPA 5030B_MS

LCS (3I30027-BS1) Continued Prepared: 09/30/2013 14:00 Analyzed: 10/01/2013 04:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	21		1.0	ug/L	20.0		106	83-117			
Toluene	21		1.0	ug/L	20.0		105	71-118			
Trichloroethene	20		1.0	ug/L	20.0		101	74-119			

Matrix Spike (3I30027-MS1) Prepared: 09/30/2013 14:00 Analyzed: 10/01/2013 05:02

Source: C309771-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.21 U	94	75-133			
Benzene	17		1.0	ug/L	20.0	0.15 U	85	81-134			
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	88	83-117			
Toluene	17		1.0	ug/L	20.0	0.14 U	87	71-118			
Trichloroethene	16		1.0	ug/L	20.0	0.15 U	81	74-119			

Matrix Spike Dup (3I30027-MSD1) Prepared: 09/30/2013 14:00 Analyzed: 10/01/2013 05:31

Source: C309771-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	16		1.0	ug/L	20.0	0.21 U	78	75-133	19	20	
Benzene	15		1.0	ug/L	20.0	0.15 U	73	81-134	14	17	QM-07
Chlorobenzene	15		1.0	ug/L	20.0	0.17 U	73	83-117	18	16	QM-07, QM-11
Toluene	15		1.0	ug/L	20.0	0.14 U	74	71-118	17	17	
Trichloroethene	14		1.0	ug/L	20.0	0.15 U	71	74-119	14	22	QM-07

Batch 3J01036 - EPA 5030B_MS

Blank (3J01036-BLK1) Prepared: 10/01/2013 16:40 Analyzed: 10/02/2013 02:21

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

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3J01036 - EPA 5030B_MS

Blank (3J01036-BLK1) Continued Prepared: 10/01/2013 16:40 Analyzed: 10/02/2013 02:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*90*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*93*	*68-117*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*91*	*67-127*			

LCS (3J01036-BS1) Prepared: 10/01/2013 16:40 Analyzed: 10/02/2013 02:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0		93	75-133			
Benzene	18		1.0	ug/L	20.0		92	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		98	83-117			
Toluene	17		1.0	ug/L	20.0		86	71-118			
Trichloroethene	20		1.0	ug/L	20.0		100	74-119			

Matrix Spike (3J01036-MS1) Prepared: 10/01/2013 16:40 Analyzed: 10/02/2013 03:20

Source: C312424-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.21 U	94	75-133			
Benzene	18		1.0	ug/L	20.0	0.15 U	92	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	101	83-117			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3J01036 - EPA 5030B_MS

Matrix Spike (3J01036-MS1) Continued Prepared: 10/01/2013 16:40 Analyzed: 10/02/2013 03:20

Source: C312424-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Toluene	18		1.0	ug/L	20.0	0.14 U	90	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	102	74-119			

Matrix Spike Dup (3J01036-MSD1) Prepared: 10/01/2013 16:40 Analyzed: 10/02/2013 03:50

Source: C312424-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.21 U	90	75-133	5	20	
Benzene	16		1.0	ug/L	20.0	0.15 U	82	81-134	12	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	103	83-117	2	16	
Toluene	16		1.0	ug/L	20.0	0.14 U	82	71-118	9	17	
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	99	74-119	3	22	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 3J03037 - EPA 7470A

Blank (3J03037-BLK1) Prepared: 10/03/2013 16:57 Analyzed: 10/04/2013 15:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (3J03037-BS1) Prepared: 10/03/2013 16:57 Analyzed: 10/04/2013 15:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.96		0.200	ug/L	5.00		99	80-120			

Matrix Spike (3J03037-MS1) Prepared: 10/03/2013 16:57 Analyzed: 10/04/2013 15:37

Source: C311142-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.01		0.200	ug/L	5.00	0.170 U	80	75-125			

Matrix Spike Dup (3J03037-MSD1) Prepared: 10/03/2013 16:57 Analyzed: 10/04/2013 15:44

Source: C311142-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.62		0.200	ug/L	5.00	0.170 U	72	75-125	10	25	QM-07

Post Spike (3J03037-PS1) Prepared: 10/03/2013 16:57 Analyzed: 10/04/2013 15:47

Source: C311142-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.25		0.200	ug/L	5.00	0.0670	64	75-125			QM-08

QUALITY CONTROL

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

Batch 3I26011 - EPA 3005A

Blank (3I26011-BLK1) Prepared: 09/26/2013 08:50 Analyzed: 09/30/2013 11:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	5.40	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.40	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Iron	22.0	U	50.0	ug/L							
Lead	2.10	U	10.0	ug/L							
Manganese	1.10	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Selenium	5.00	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (3I26011-BS1) Prepared: 09/26/2013 08:50 Analyzed: 09/30/2013 12:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	205		10.0	ug/L	200		103	80-120			
Barium	207		10.0	ug/L	200		103	80-120			
Beryllium	19.6		1.00	ug/L	20.0		98	80-120			
Cadmium	20.4		1.00	ug/L	20.0		102	80-120			
Chromium	202		10.0	ug/L	200		101	80-120			
Cobalt	202		10.0	ug/L	200		101	80-120			
Copper	199		10.0	ug/L	200		100	80-120			
Iron	1070		50.0	ug/L	1000		107	80-120			
Lead	207		10.0	ug/L	200		104	80-120			
Manganese	192		10.0	ug/L	200		96	80-120			
Nickel	208		10.0	ug/L	200		104	80-120			
Selenium	201		10.0	ug/L	200		100	80-120			
Silver	211		10.0	ug/L	200		105	80-120			
Vanadium	205		10.0	ug/L	200		103	80-120			
Zinc	204		10.0	ug/L	200		102	80-120			

Matrix Spike (3I26011-MS1) Prepared: 09/26/2013 08:50 Analyzed: 09/30/2013 12:42

Source: C311142-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	206		10.0	ug/L	200	5.40 U	103	75-125			
Barium	773		10.0	ug/L	200	590	92	75-125			
Beryllium	20.0		1.00	ug/L	20.0	0.105	100	75-125			
Cadmium	20.4		1.00	ug/L	20.0	0.785	98	75-125			
Chromium	204		10.0	ug/L	200	5.25	99	75-125			
Cobalt	212		10.0	ug/L	200	18.7	96	75-125			
Copper	201		10.0	ug/L	200	1.60 U	101	75-125			
Iron	24200		50.0	ug/L	1000	23800	46	75-125			QM-05
Lead	202		10.0	ug/L	200	2.10 U	101	75-125			

QUALITY CONTROL

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

Batch 3I26011 - EPA 3005A

Matrix Spike (3I26011-MS1) Continued Prepared: 09/26/2013 08:50 Analyzed: 09/30/2013 12:42

Source: C311142-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Manganese	14200		10.0	ug/L	200	14400	NR	75-125			QM-05
Nickel	204		10.0	ug/L	200	4.74	100	75-125			
Selenium	205		10.0	ug/L	200	5.00 U	102	75-125			
Silver	213		10.0	ug/L	200	4.35	104	75-125			
Vanadium	203		10.0	ug/L	200	1.40 U	102	75-125			
Zinc	203		10.0	ug/L	200	5.04	99	75-125			

Matrix Spike Dup (3I26011-MSD1) Prepared: 09/26/2013 08:50 Analyzed: 09/30/2013 12:44

Source: C311142-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	204		10.0	ug/L	200	5.40 U	102	75-125	0.8	20	
Barium	742		10.0	ug/L	200	590	76	75-125	4	20	
Beryllium	19.3		1.00	ug/L	20.0	0.105	96	75-125	4	20	
Cadmium	20.2		1.00	ug/L	20.0	0.785	97	75-125	1	20	
Chromium	195		10.0	ug/L	200	5.25	95	75-125	4	20	
Cobalt	209		10.0	ug/L	200	18.7	95	75-125	1	20	
Copper	193		10.0	ug/L	200	1.60 U	96	75-125	5	20	
Iron	23200		50.0	ug/L	1000	23800	NR	75-125	4	20	QM-05
Lead	198		10.0	ug/L	200	2.10 U	99	75-125	2	20	
Manganese	14100		10.0	ug/L	200	14400	NR	75-125	0.5	20	QM-05
Nickel	202		10.0	ug/L	200	4.74	99	75-125	1	20	
Selenium	198		10.0	ug/L	200	5.00 U	99	75-125	3	20	
Silver	205		10.0	ug/L	200	4.35	100	75-125	4	20	
Vanadium	196		10.0	ug/L	200	1.40 U	98	75-125	4	20	
Zinc	200		10.0	ug/L	200	5.04	97	75-125	2	20	

Post Spike (3I26011-PS1) Prepared: 09/26/2013 08:50 Analyzed: 09/30/2013 12:47

Source: C311142-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.193		0.0100	mg/L	0.200	-0.000172	96	80-120			
Barium	0.742		0.0100	mg/L	0.200	0.590	76	80-120			QM-08
Beryllium	0.0185		0.00100	mg/L	0.0200	0.000105	92	80-120			
Cadmium	0.0194		0.00100	mg/L	0.0200	0.000785	93	80-120			
Chromium	0.188		0.0100	mg/L	0.200	0.00525	91	80-120			
Cobalt	0.201		0.0100	mg/L	0.200	0.0187	91	80-120			
Copper	0.186		0.0100	mg/L	0.200	-0.000133	93	80-120			
Iron	23.4		0.0500	mg/L	1.00	23.8	NR	80-120			QM-08
Lead	0.190		0.0100	mg/L	0.200	0.00151	94	80-120			
Manganese	14.4		0.0100	mg/L	0.200	14.4	13	80-120			QM-08
Nickel	0.194		0.0100	mg/L	0.200	0.00474	95	80-120			
Selenium	0.190		0.0100	mg/L	0.200	-0.00546	98	80-120			
Silver	0.198		0.0100	mg/L	0.200	0.00435	97	80-120			
Vanadium	0.189		0.0100	mg/L	0.200	-0.00339	96	80-120			
Zinc	0.193		0.0100	mg/L	0.200	0.00504	94	80-120			

QUALITY CONTROL

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

Batch 3I26011 - EPA 3005A

Batch 3J01010 - EPA 3005A

Blank (3J01010-BLK1) Prepared: 10/01/2013 09:41 Analyzed: 10/02/2013 10:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Thallium	**0.142**	**J**	1.00	ug/L							

LCS (3J01010-BS1) Prepared: 10/01/2013 09:41 Analyzed: 10/02/2013 10:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	202		2.00	ug/L	200		101	80-120			
Thallium	199	B	1.00	ug/L	200		100	80-120			

Matrix Spike (3J01010-MS1) Prepared: 10/01/2013 09:41 Analyzed: 10/02/2013 11:06

Source: C311142-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	210		2.00	ug/L	200	0.220 U	105	75-125			
Thallium	165	B	1.00	ug/L	200	0.604	82	75-125			

Matrix Spike Dup (3J01010-MSD1) Prepared: 10/01/2013 09:41 Analyzed: 10/02/2013 11:10

Source: C311142-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	211		2.00	ug/L	200	0.220 U	106	75-125	0.8	20	
Thallium	167	B	1.00	ug/L	200	0.604	83	75-125	0.8	20	

Post Spike (3J01010-PS1) Prepared: 10/01/2013 09:41 Analyzed: 10/02/2013 11:14

Source: C311142-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	218		2.00	ug/L	200	-0.370	109	80-120			
Thallium	170	B	1.00	ug/L	200	0.604	85	80-120			

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 3I23037 - EPA 3510C

Blank (3I23037-BLK1) Prepared: 09/23/2013 16:30 Analyzed: 09/24/2013 20:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	0.16	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*102*	*68-139*			

Blank (3I23037-BLK2) Prepared: 09/24/2013 10:00 Analyzed: 09/24/2013 23:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	0.80	U	2.5	ug/L							

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 3I23037 - EPA 3510C

Blank (3I23037-BLK2) Continued Prepared: 09/24/2013 10:00 Analyzed: 09/24/2013 23:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 2,4-DCAA	*12*			*ug/L*	*10.0*		*119*	*68-139*			

LCS (3I23037-BS1) Prepared: 09/23/2013 16:30 Analyzed: 09/24/2013 21:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	2.2		0.50	ug/L	2.00		111	37-129			
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*102*	*68-139*			

Matrix Spike (3I23037-MS1) Prepared: 09/23/2013 16:30 Analyzed: 09/24/2013 22:08

Source: A305332-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	2.7		0.50	ug/L	2.00	0.16 U	135	37-129			QM-07
Surrogate: 2,4-DCAA	*2.2*			*ug/L*	*2.00*		*111*	*68-139*			

Matrix Spike (3I23037-MS2) Prepared: 09/24/2013 10:00 Analyzed: 09/24/2013 23:49

Source: A305402-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	2.5		0.50	ug/L	2.00	0.16 U	127	37-129			
Surrogate: 2,4-DCAA	*1.9*			*ug/L*	*2.00*		*95*	*68-139*			

Matrix Spike Dup (3I23037-MSD1) Prepared: 09/23/2013 16:30 Analyzed: 09/24/2013 22:33

Source: A305332-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	2.7		0.50	ug/L	2.00	0.16 U	133	37-129	2	33	QM-07
Surrogate: 2,4-DCAA	*2.3*			*ug/L*	*2.00*		*117*	*68-139*			

Matrix Spike Dup (3I23037-MSD2) Prepared: 09/24/2013 10:00 Analyzed: 09/25/2013 00:14

Source: A305402-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	2.6		0.50	ug/L	2.00	0.16 U	129	37-129	1	33	
Surrogate: 2,4-DCAA	*2.1*			*ug/L*	*2.00*		*106*	*68-139*			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the associated method blank.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-08	Post-digestion spike did not meet method requirements due to confirmed matrix effects (dilution test).
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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(407) 826-5314 Fax (407) 850-6945

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

Client Name: Golder Associates, Inc. (GO007)	Project Number: 0839-6506013.100
Address: 5B Oak Branch Drive	Project Name/Desc: Henderson Co. LF
City/ST/Zip: Greensboro, NC 27407	PO # / Billing Info:
Tel: (336) 852-4903 Fax: (336) 852-4904	Reporting Contact: Dusty Reedy
Sampler(s) Name, Affiliation (Print): Daniel Childress, Golder	Billing Contact: Accounts Payable
Sampler(s) Signature: Daniel Childress	Site Location / Time Zone: Hendersonville, NC / EST

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C311142

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

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8151A	8260B Appendix 1	8260B Appendix 1,8260B Extended	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Se,Tl,V,Zn	Hg	Hg/F				Sample Comments
	4501-MW5 (Background)	9/18/13	1439	G	GW	4		X			X	X					
	4501-MW6	9/18/13	1617	G	GW	4		X			X	X					Dissolved Metals taken in addition to Total Metals
	4501-MW7 (MS/MSD)	9/18/13	1548	G	GW	8		X			X	X					
	4501-MW8	9/18/13	1514	G	GW	4		X			X	X					
	4501-MW8 (Dissolved)	9/18/13	1514	G	GW	1							X				
	4501-AMW1S	9/19/13	1031	G	GW	4		X			X	X					
	4501-AMW1D	9/19/13	1042	G	GW	4		X			X	X					
	4501-AMW2S	9/19/13	1136	G	GW	4		X			X	X					
	4501-AMW2D	9/19/13	1217	G	GW	4		X			X	X					
	4501-BR1	9/19/13	0828	G	SW	4		X			X						
	4501-BR2	9/19/13	0850	G	SW	4		X			X						
	4501-BR3	9/19/13	1200	G	SW	4		X			X						

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		Daniel Childress	9/20/13 0900	[illegible]	9-20-13 10:15

Comments/Special Reporting Requirements
1) Please provide a "Level 2" data report.
2) Unit Rates per "Basic Ordering Agreement for Lab Services" dated 4/12/04 + 2013 Unit Price Sheet.
3) Est Fee = $2565.

Cooler #'s & Temps on Receipt: C-1526 1.0°c

Condition Upon Receipt: ✓ Acceptable ___ Unacceptable

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

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

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

LOA per: Daniel Childress

Accepted by: [illegible]

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

Client Name: Golder Associates, Inc. (GO007)	Project Number: 0839-6506013.100
Address: 5B Oak Branch Drive	Project Name/Desc: Henderson Co. LF
City/ST/Zip: Greensboro, NC 27407	PO # / Billing Info:
Tel: (336) 852-4903 Fax: (336) 852-4904	Reporting Contact: Dusty Reedy
Sampler(s) Name, Affiliation (Print): Daniel Childress, Golder	Billing Contact: Accounts Payable
Sampler(s) Signature: Daniel Childress	Site Location / Time Zone: Hendersonville, NC / EST

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C311142

Requested Analyses

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8151A	8260B Appendix 1	8260B Appendix 1,8260B Extended	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Ni,Pb,Sb,Se,Se,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Se,Tl,V,Zn	Hg	Hg/F				Sample Comments
	4501-SW1	~~9/20/13~~ 9/19/13	1245	G	SW	4		X			X						
	4501-Field Blank (9/23/13 pf)	~~9/20/13~~ 9/19/13	1305	G	WA	5	X		X	X		X					
	4501-Trip Blank	~~9/20/13~~	—	—	WA	2			X								

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: Daniel Childress	Date/Time: 9/20/13 0900	Received By: [signature]	Date/Time: 9-20-13 10:15
Comments/Special Reporting Requirements: See pg. 1 Sample collections dates for SW-1 and Field Blank adjusted per client email. pf 9/23/13		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-1526 1.0c		Condition Upon Receipt: X Acceptable ___ Unacceptable	

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

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

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

LOA per: Daniel Childress Accepted by: [signature]

WORK ORDER

Printed: 10/9/2013 3:28:31PM

C311142

ENCO Cary

Sample Receipt Conditions

Client:	**Golder Associates, Inc. (GO007)**	**Lab Project Mgr:**	**Stephanie Franz**
Project:	**Henderson Co. LF**	**Project Number:**	**0839-6506013.100**
PO #:			

Report To:

Golder Associates, Inc. (GO007)
Dusty Reedy
5B Oak Branch Drive
Greensboro, NC 27407
Phone: (336) 852-4903
Fax: (336) 852-4904

Invoice To:

Golder Associates, Inc. (GO007)
Accounts Payable
5B Oak Branch Drive
Greensboro, NC 27407
Phone :(804) 358-7900
Fax: 804-358-2900

Received By:	John C King	Date Received:	20-Sep-13 10:15
Logged In By:	John C King	Date Logged In:	20-Sep-13 12:20

Work Order Comments:

C-1526 received at 1.0°C

Containers Intact	**Y**	Containers Properly Preserved	**Y**	Proper Containers Received	**Y**	All Samples in PreLog Received	**Y**	COC/Labels Agree	**Y**
Custody Seals Intact	**Y**	Volatile Containers Preserved	**Y**	Volatile Containers Headspace Free	**Y**	Aqueous Samples Checked for Residual Cl	**N**	Received On Ice	**Y**

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
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Thursday, October 3, 2013

Golder Associates, Inc. (GO007)

Attn: Dusty Reedy

5B Oak Branch Drive

Greensboro, NC 27407

RE: Laboratory Results for
Project Number: 0839650613.100, Project Name/Desc: Henderson County LF
ENCO Workorder(s): C311144

Dear Dusty Reedy,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, September 20, 2013.

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

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

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

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

Sincerely,

Stephanie Franz

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 10.

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PROJECT NARRATIVE

Date: 03 October 2013
Client: Golder Associates, Inc. (GO007)
Project: Henderson County LF
Lab ID: C311144

Overview

Environmental Conservation Laboratories, Inc. (ENCO) analyzed all submitted samples in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by ENCO are discussed in the QC Remarks section below.

Quality Control Samples

No Comments

Quality Control Remarks

No Comments

Other Comments

All samples received under this work order arrived in acceptable conditions. The samples were not checked for residual chlorine, as it is not required. Sample TSW-1 was not collected, as the source was dry.

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative or in the Flags/Notes and Definitions section of the report.

Released By:
Environmental Conservation Laboratories, Inc.

Stephanie Franz
Project Manager

Page 2 of 10

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4501-TSW2	Lab ID: C311144-01	Sampled: 09/19/13 09:30	Received: 09/20/13 10:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/03/13	09/30/13 16:05	9/30/2013 19:25

Page 3 of 10

SAMPLE DETECTION SUMMARY

No positive results detected.

Page 4 of 10

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ANALYTICAL RESULTS

Description: 4501-TSW2 **Lab Sample ID:** C311144-01 **Received:** 09/20/13 10:15

Matrix: Surface Water **Sampled:** 09/19/13 09:30 **Work Order:** C311144

Project: Henderson County LF **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	09/30/13 19:25	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/30/13 19:25	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/30/13 19:25	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/30/13 19:25	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/30/13 19:25	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/30/13 19:25	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/30/13 19:25	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/30/13 19:25	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/30/13 19:25	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/30/13 19:25	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/30/13 19:25	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/30/13 19:25	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	09/30/13 19:25	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/30/13 19:25	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/30/13 19:25	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/30/13 19:25	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/30/13 19:25	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/30/13 19:25	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/30/13 19:25	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/30/13 19:25	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/30/13 19:25	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/30/13 19:25	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/30/13 19:25	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/30/13 19:25	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/30/13 19:25	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/30/13 19:25	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/30/13 19:25	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/30/13 19:25	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/30/13 19:25	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	09/30/13 19:25	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/30/13 19:25	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/30/13 19:25	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/30/13 19:25	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/30/13 19:25	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/30/13 19:25	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/30/13 19:25	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/30/13 19:25	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/30/13 19:25	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/30/13 19:25	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/30/13 19:25	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/30/13 19:25	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/30/13 19:25	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/30/13 19:25	REF	

Page 5 of 10

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Description:	4501-TSW2	**Lab Sample ID:**	C311144-01	**Received:**	09/20/13 10:15
Matrix:	Surface Water	**Sampled:**	09/19/13 09:30	**Work Order:**	C311144
Project:	Henderson County LF	**Sampled By:**	Daniel Childress		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/30/13 19:25	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/30/13 19:25	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	09/30/13 19:25	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	09/30/13 19:25	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*3I30029*	*EPA 8260B*	*09/30/13 19:25*	*REF*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*3I30029*	*EPA 8260B*	*09/30/13 19:25*	*REF*	
Toluene-d8	*45*	*1*	*50.0*	*91 %*	*67-127*	*3I30029*	*EPA 8260B*	*09/30/13 19:25*	*REF*	

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

Page 6 of 10

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3I30029 - EPA 5030B_MS

Blank (3I30029-BLK1) Prepared: 09/30/2013 16:05 Analyzed: 09/30/2013 17:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*88*	*51-122*			

Page 7 of 10

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3I30029 - EPA 5030B_MS

Blank (3I30029-BLK1) Continued Prepared: 09/30/2013 16:05 Analyzed: 09/30/2013 17:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*91*	*68-117*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*90*	*67-127*			

LCS (3I30029-BS1) Prepared: 09/30/2013 16:05 Analyzed: 09/30/2013 16:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0		97	75-133			
Benzene	20		1.0	ug/L	20.0		98	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		106	83-117			
Toluene	19		1.0	ug/L	20.0		95	71-118			
Trichloroethene	21		1.0	ug/L	20.0		103	74-119			

Matrix Spike (3I30029-MS1) Prepared: 09/30/2013 16:05 Analyzed: 09/30/2013 16:57

Source: C312424-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.21 U	97	75-133			
Benzene	18		1.0	ug/L	20.0	0.15 U	92	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	104	83-117			
Toluene	20		1.0	ug/L	20.0	0.14 U	98	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	100	74-119			

Matrix Spike Dup (3I30029-MSD1) Prepared: 09/30/2013 16:05 Analyzed: 09/30/2013 17:26

Source: C312424-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.21 U	96	75-133	2	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	93	81-134	0.2	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	101	83-117	3	16	
Toluene	18		1.0	ug/L	20.0	0.14 U	90	71-118	8	17	
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	97	74-119	3	22	

Page 8 of 10

FLAGS/NOTES AND DEFINITIONS

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

Page 9 of 10

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

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Client Name: Golder Associates, Inc. (GO007)	Project Number: 083965061 3.100
Address: 5B Oak Branch Drive	Project Name/Desc: Henderson County LF
City/ST/Zip: Greensboro, NC 27407	PO # / Billing Info:
Tel: (336) 852-4903 Fax: (336) 852-4904	Reporting Contact: Dusty Reedy
Sampler(s) Name, Affiliation (Print): Daniel Childress, Golder	Billing Contact: Accounts Payable
Sampler(s) Signature: Daniel Childress	Site Location / Time Zone: Hendersonville, NC / EST

Requested Analyses: 8260B Appendix 1

Requested Turnaround Times: Note: Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C311144

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Sample Comments
	~~4501-TSW1~~				SW	3	X	dry, sample not collected
	4501-TSW2	9/19/13	0930	G	SW	3	X	

Preservation (See Codes) (Combine as necessary)

<-- Total # of Containers

Sample Kit Prepared By: CB	Date/Time: 9/6	Relinquished By: Daniel Childress	Date/Time: 9/20/13 0900
Received By: [signature]	Date/Time: 9-20-13 10:15	Relinquished By:	Date/Time:
Received By:	Date/Time:	Relinquished By:	Date/Time:
Received By:	Date/Time:	Cooler #'s & Temps on Receipt: C-13 1.9c	Condition Upon Receipt: ✓ Acceptable ___ Unacceptable

Comments/Special Reporting Requirements:
1) Please provide a "Level 2" data report.
2) Unit rates per "Basic Ordering Agreement for Lab Services" dated 4/9/04 + 2013 Unit Price Sheet.
3) Est. Fee = $200

Matrix: GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

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

LOA per: Daniel Childress Accepted by: [signature]

WORK ORDER

Printed: 10/3/2013 10:40:42AM

C311144

ENCO Cary

Sample Receipt Conditions

Client:	**Golder Associates, Inc. (GO007)**	**Lab Project Mgr:**	**Stephanie Franz**
Project:	**Henderson County LF**	**Project Number:**	**0839650613.100**
PO #:			

Report To:

Golder Associates, Inc. (GO007)
Dusty Reedy
5B Oak Branch Drive
Greensboro, NC 27407
Phone: (336) 852-4903
Fax: (336) 852-4904

Invoice To:

Golder Associates, Inc. (GO007)
Accounts Payable
5B Oak Branch Drive
Greensboro, NC 27407
Phone :(804) 358-7900
Fax: 804-358-2900

Received By:	John C King	Date Received:	20-Sep-13 10:15
Logged In By:	John C King	Date Logged In:	20-Sep-13 13:07

Work Order Comments:

C-13 received at 1.9°C

Containers Intact	Y	Containers Properly Preserved	Y	Proper Containers Received	Y	All Samples in PreLog Received	N	COC/Labels Agree	Y
Custody Seals Intact	Y	Volatile Containers Preserved	Y	Volatile Containers Headspace Free	Y	Aqueous Samples Checked for Residual Cl	N	Received On Ice	Y

Reviewed By

Date

Project Name: Henderson County MSW Landfill

Project Reference Number: 0839-650613.100

Sampling Event Date: September 18-19, 2013

Review Date: October 30, 2013 *Initials:* BF

Report #: C311142, C311144

Person(s) performing the review are to initial each item on this form as acknowledgement of data acceptance, or as acknowledgement of a review issue. In the case of the latter, a brief explanation should follow the applicable item.

Golder Associates Inc. has reviewed the laboratory certificates of analysis, chain-of-custody form, and laboratory provided sample group quality assurance and quality control data for the above referenced sample group to identify potential bias or inaccuracy, in general accordance with the following United States Environmental Protection Agency documents:

- Region III Modifications to Functional Guidelines for Organic Data Review Multi-Media, Multi-Concentration, September 1994;
- Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses, April 1993; and
- Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses, July 1998.

COMPLIANCE ANALYTE LIST(S) (check all that apply)

_ NC Closed Facility List (.500 Rules)

_ NC C & D List (New Rules)

_ NC Appendix I

X NC Appendix I + Detects

_ NC Appendix II

_ NC Subtitle D Leachate List

Other: Mercury and Sulfide

1.0 CHAIN OF CUSTODY (COC) REVIEW

BF COC was properly signed by all parties.

BF Correct project name and number are on the form.

BF Sample receipt condition at laboratory was acceptable.

BF Each sample and blank submitted for analysis appears in the report.

2.0 SAMPLE HOLDING TIMES

BF Holding times for extraction and/or analysis were met for each analytical Method (see below for reference).

Review Criteria		
Method	**Analytes**	**Holding Time**
SW-846 Method 8260 and 8011	VOCs	14 days
SW-846 Methods 8270, 8080, 8081, 8082, and 8151	SVOCs, PCBs, pesticides and herbicides	7 days for extraction, 40 days from extraction for analysis
SW-846 Methods 6000 and 7000 Series	Metals except mercury	6 months (no temperature requirements)
SW-846 Method 7470	Mercury	28 days
SW-846 Method 376.1	Sulfide	7 days
SW-846 Method 9010	Cyanide	14 days
EPA Method 300	Nitrate/Sulfate	48 hours/28 days
EPA Method 405.1	BOD	48 hours
EPA Method 410.4	COD	28 days
EPA Method 365.4	Phosphorous	28 days

3.0 LABORATORY QUALITY CONTROL REVIEW

BF Laboratory analyzed at least one internal blank for each method, where applicable.

BF Laboratory blank is interference-free.

- ***Thallium was detected in the 6020A Method Blank at a low-level concentration (less than half of the MRL). Detections of this analyte should be considered to have a possible high bias if the concentration in the associated sample is not greater than ten times that of the detection in the Method Blank.***

BF Surrogate recoveries are provided for each analytical method, where applicable.

BF Surrogate recoveries for each method are within the acceptable limits (i.e., at least 50% of the surrogates were within range).

BF MS/MSD/LCS data results are provided for each analytical method.

BF MS/MSD/LCS recoveries for each method are within the acceptable limits (i.e., at least 1 of the 3 were within range).

- ***The spike recovery of Benzene, Chlorobenzene and Trichloroehtene exceeded acceptance limits for the 8260B MS and/or MSD samples, and precision between duplicate spikes of Chlorobenzene was outside of control limits. The QC batch was approved based on acceptable LCS recovery of these analytes.***

- ***The spike recovery of 2,4-D was outside of control limits for the 8151A MS and/or MSD samples. The QC batch was approved based on acceptable LCS recovery of this analyte.***

- ***The spike recovery of Barium, Iron, Manganese, and Mercury were outside of control limits for the MS, MSD and/or Post Spike samples. The QC batch was approved based on acceptable LCS recovery of these elements.***

4.0 ANALYTE LISTS/METHODS

BF The proper number of constituents are present for each analyte list as identified above (including detects where applicable).

BF Proper EPA SW-846 analytical methods were used for analysis.

5.0 DATA REPORTING

BF All analytical reporting associated with the event was performed by the contracted lab.

BF Trip, field and/or equipment, and laboratory blank results have all been reported. All detects for blanks are listed below by constituent. All laboratory method blanks, if any, have been 'flagged' with a 'B' where detected in other samples as appropriate and a laboratory narrative was provided. If the sample was flagged by the laboratory and is not within 5X of the concentration in the blank (or 10X for commonly detected laboratory contaminants-acetone, methylene chloride and phthalates), list below with explanation if flags should be removed. If flags need to be added for samples, also list below.

- ***Method Blank***
  - ***Thallium @ 0.142 ug/L (J)*** ***"B" flags added to MW-7, MW -8, AMW-1S***

BF It is clear from the laboratory report that samples have or have not been diluted during analysis, and if the samples have been diluted, the result is reported as a multiple of the dilution (e.g., a sample diluted 10x resulting in an analytical detection of 1.0 should be reported as 10). Those that have been diluted are listed below with the dilution factor.

BF The report provides the reporting limit for each constituent.

BF The results were reported at or below their proper reporting limits (i.e., MDLs with SWSLs reported). Those that are not reported correctly are listed below (by constituent) with the proper reporting limit listed beside them. State if the reporting limit error is due to dilutions.

BF No organic constituents were reported above their respective SWSLs, and no inorganic or organic constituents were reported above their respective NC 2L Drinking Water Standards/GWPS in wells, or field/equipment/trip blanks, or above applicable surface water standards in surface water points.

- ***Barium*** ***(NC2L = 700 ug/L)***
  - ***MW-8 @ 787 ug/L***
- ***Cobalt*** ***(GWPS = 1 ug/L)***
  - ***MW-6 @ 43.8 ug/L***
  - ***MW-7 @ 18.7 ug/L***
  - ***MW-8 @ 2.44 ug/L (J)***
  - ***AMW-1S @ 4.83 ug/L (J)***
  - ***AMW-2S @ 2.33 ug/L (J)***
- ***Lead*** ***(NC2L = 15 ug/L)***
  - ***MW-6 @ 17.4 ug/L***
- ***Thallium*** ***(NC2L = 0.28 ug/L)***
  - ***MW-7 @ 0.604 ug/L (B)***
  - ***MW-8 @ 0.609 ug/L (B)***
  - ***AMW-1S @ 0.459 ug/L (B)***
- ***Vanadium*** ***(GWPS = 0.3 ug/L)***
  - ***MW-5 @ 2.71 ug/L (J)***
  - ***MW-6 @ 12.4 ug/L (J)***
  - ***AMW-2S @ 9.96 ug/L (J)***
- ***Benzene*** ***(SWSL & NC2L = 1 ug/L)***
  - ***MW-6 @ 2.9 ug/L***
  - ***MW-7 @ 1.7 ug/L***
  - ***AMW-1D @ 1.1 ug/L***
- ***1,4-Dichlorobenzene*** ***(SWSL = 1 ug/L)***
  (NC2L = 6 ug/L)
  - ***MW-6 @ 6.0 ug/L***
  - ***MW-7 @ 13 ug/L***
  - ***MW-8 @ 1.2 ug/L***
  - ***AMW-1D @ 4.1 ug/L***
  - ***AMW-2S @ 1.4 ug/L***
  - ***BR-2 @ 1.7 ug/L***
- ***cis-1,2-Dichloroethene*** ***(SWSL = 5 ug/L)***
  - ***MW-7 @ 5.3 ug/L***
- ***Methylene chloride*** ***(SWSL = 1 ug/L)***
  (NC2L = 5 ug/L)
  - ***MW-8 @ 1.0 ug/L***
- ***PCE*** ***(SWSL = 1 ug/L) (NC2L = 0.7 ug/L)***
  - ***MW-8 @ 2.8 ug/L***
- ***TCE*** ***(SWSL = 1 ug/L) (NC2L = 3 ug/L)***
  - ***MW-8 @ 1.3 ug/L***
- ***Vinyl Chloride*** ***(SWSL = 1 ug/L)***
  (NC2L = 0.03 ug/L)
  - ***MW-7 @ 0.81 ug/L (J)***
  - ***AMW-1D @ 0.48 ug/L (J)***
  - ***AMW-2S @ 0.48 ug/L (J)***

BF No inorganic and organic constituents were detected in a well or surface water point at quantified concentrations outside of their historical range (more than 5X previous concentrations or first-time detections).

BF Other report issues/Communications with laboratory/etc.:

- The detection of Mercury in sample AMW-2S was confirmed by reprep and reanalysis. Only the original result is included in this report.

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

Wednesday, October 9, 2013

Golder Associates, Inc. (GO007)

Attn: Dusty Reedy

5B Oak Branch Drive

Greensboro, NC 27407

RE: Laboratory Results for
Project Number: 0839-6506013.100, Project Name/Desc: Henderson Co. LF C&D
ENCO Workorder(s): C311143

Dear Dusty Reedy,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, September 20, 2013.

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

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

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

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

Sincerely,

Stephanie Franz

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 44.

PROJECT NARRATIVE

Date: 09 October 2013
Client: Golder Associates, Inc. (GO007)
Project: Henderson Co. LF C&D
Lab ID: C311143

Overview

Environmental Conservation Laboratories, Inc. (ENCO) analyzed all submitted samples in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by ENCO are discussed in the QC Remarks section below.

Quality Control Samples

Sulfate was detected in the Method Blank at a low-level concentration (less than half of the MRL). Detections of this analyte should be considered to have a possible high bias if the concentration in the associated sample is not greater than ten times that of the detection in the Method Blank. The spike recoveries of Chloride and Sulfate were outside of control limits for the MS and/or MSD samples. The QC batch was approved based on acceptable LCS recovery of these analytes.

The spike recovery of Iron was outside of control limits for the 6010C MSD sample. The QC batch was approved based on acceptable LCS recovery of this element.

The spike recovery of 2,4-D was outside of control limits for the 8151 A MS and MSD samples. The QC batch was approved based on acceptable LCS recovery of this analyte.

The spike recovery of Trichloroethene was outside of control limits for the 8260B MS sample. The QC batch was approved based on acceptable LCS recovery of this analyte.

Quality Control Remarks

Sample MW-10 was analyzed at a dilution for Antimony and Thallium due to matrix interference, resulting in elevated reporting limits.

Other Comments

The concentration of Mercury detected in MW-13 was confirmed by reprep and reanalysis. Only the original result is included in this report.

All samples received under this work order arrived in acceptable conditions. The samples were not checked for residual chlorine, as it is not required.

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative or in the Flags/Notes and Definitions section of the report.

Released By:
Environmental Conservation Laboratories, Inc.

Stephanie Franz
Project Manager

Page 2 of 44

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4501-MW10 | Lab ID: C311143-01 | Sampled: 09/18/13 09:18 | Received: 09/20/13 10:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	10/16/13		09/24/13	01:55	9/24/2013 01:55
EPA 310.2	10/02/13		09/27/13	07:54	9/27/2013 09:38
EPA 6010C	03/17/14		10/01/13	09:48	10/2/2013 14:17
EPA 7470A	10/16/13		10/03/13	16:46	10/4/2013 15:23
EPA 8151A	09/25/13	11/02/13	09/23/13	14:58	9/25/2013 01:05
EPA 8260B	10/02/13		09/26/13	16:35	9/27/2013 18:10
SM 2540C-1997	09/25/13		09/25/13	08:35	9/25/2013 08:35

Client ID: 4501-MW10 | Lab ID: C311143-01RE1 | Sampled: 09/18/13 09:18 | Received: 09/20/13 10:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6020A	03/17/14		10/01/13	09:38	10/4/2013 13:53

Client ID: 4501-MW11 (MS/MSD) | Lab ID: C311143-02 | Sampled: 09/18/13 12:59 | Received: 09/20/13 10:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	10/16/13		09/26/13	12:31	9/26/2013 20:07
EPA 310.2	10/02/13		09/27/13	07:54	9/27/2013 09:31
EPA 6010C	03/17/14		10/01/13	09:48	10/2/2013 14:00
EPA 6020A	03/17/14		10/01/13	09:38	10/4/2013 10:48
EPA 7470A	10/16/13		10/03/13	16:46	10/4/2013 15:05
EPA 8151A	09/25/13	11/03/13	09/24/13	10:00	9/25/2013 00:39
EPA 8260B	10/02/13		09/30/13	13:45	9/30/2013 17:44
SM 2540C-1997	09/25/13		09/25/13	08:35	9/25/2013 08:35

Client ID: 4501-MW12 | Lab ID: C311143-03 | Sampled: 09/18/13 11:45 | Received: 09/20/13 10:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	10/16/13		09/26/13	12:31	9/26/2013 20:24
EPA 310.2	10/02/13		09/27/13	07:54	9/27/2013 09:41
EPA 6010C	03/17/14		10/01/13	09:48	10/2/2013 14:29
EPA 6020A	03/17/14		10/01/13	09:38	10/4/2013 11:12
EPA 7470A	10/16/13		10/03/13	16:46	10/4/2013 15:26
EPA 8151A	09/25/13	11/03/13	09/24/13	10:00	9/25/2013 01:30
EPA 8260B	10/02/13		09/26/13	16:35	9/27/2013 18:40
SM 2540C-1997	09/25/13		09/24/13	10:58	9/24/2013 10:58

Page 3 of 44

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Client ID: 4501-MW13	Lab ID: C311143-04	Sampled: 09/18/13 11:08	Received: 09/20/13 10:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	10/16/13		09/26/13	12:31	9/26/2013	20:42
EPA 310.2	10/02/13		09/27/13	07:54	9/27/2013	09:41
EPA 6010C	03/17/14		10/01/13	09:48	10/2/2013	14:32
EPA 6020A	03/17/14		10/01/13	09:38	10/4/2013	11:16
EPA 7470A	10/16/13		10/03/13	16:46	10/4/2013	15:29
EPA 8151A	09/25/13	11/03/13	09/24/13	10:00	9/25/2013	01:55
EPA 8260B	10/02/13		09/26/13	16:35	9/27/2013	19:09
SM 2540C-1997	09/25/13		09/24/13	10:58	9/24/2013	10:58

Page 4 of 44

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4501-MW10 **Lab ID: C311143-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	429		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	5.56		1	0.100	1.00	1	ug/L	EPA 6010C	
Chloride	2400	J	1	2200	5000	NE	ug/L	EPA 300.0	
Chromium - Total	12.6		1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	15.3		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	31.1		1	1.60	10.0	10	ug/L	EPA 6010C	
Iron - Total	52700		1	22.0	50.0	300	ug/L	EPA 6010C	
Lead - Total	37.6		1	2.10	10.0	10	ug/L	EPA 6010C	
Manganese - Total	1530		1	1.10	10.0	50	ug/L	EPA 6010C	
Nickel - Total	7.11	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Sulfate as SO4	1600	J	1	40	5000	250000	ug/L	EPA 300.0	
Vanadium - Total	75.0		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	152		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW11 (MS/MSD) **Lab ID: C311143-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	59.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	1.12		1	0.100	1.00	1	ug/L	EPA 6010C	
Chloride	5000		1	2200	5000	NE	ug/L	EPA 300.0	
cis-1,2-Dichloroethene	1.8	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	1.56	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Iron - Total	5170		1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	390		1	1.10	10.0	50	ug/L	EPA 6010C	
Sulfate as SO4	18000	JB	1	40	5000	250000	ug/L	EPA 300.0	QB-01
Tetrachloroethene	0.46	J	1	0.17	1.0	1	ug/L	EPA 8260B	
Tetrahydrofuran	11		1	0.80	1.0	NE	ug/L	EPA 8260B	
Total Alkalinity as CaCO3	77000		1	14000	15000	NE	ug/L	EPA 310.2	
Total Dissolved Solids	110000		1	10000	10000	NE	ug/L	SM 2540C-1997	
Vanadium - Total	1.86	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Vinyl chloride	0.83	J	1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	15.6		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW12 **Lab ID: C311143-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	16.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.47	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.193	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chloride	13000		1	2200	5000	NE	ug/L	EPA 300.0	
cis-1,2-Dichloroethene	1.1	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Iron - Total	1270		1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	214		1	1.10	10.0	50	ug/L	EPA 6010C	
Sulfate as SO4	14000	JB	1	40	5000	250000	ug/L	EPA 300.0	J-01
Tetrachloroethene	0.40	J	1	0.17	1.0	1	ug/L	EPA 8260B	
Tetrahydrofuran	13		1	0.80	1.0	NE	ug/L	EPA 8260B	
Total Alkalinity as CaCO3	110000		1	14000	15000	NE	ug/L	EPA 310.2	
Total Dissolved Solids	180000		1	10000	10000	NE	ug/L	SM 2540C-1997	
Vanadium - Total	1.72	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Vinyl chloride	0.79	J	1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	9.51	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Page 5 of 44

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Client ID: 4501-MW13								Lab ID: C311143-04	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
1,4-Dichlorobenzene	0.55	J	1	0.19	1.0	1	ug/L	EPA 8260B	
2,4-D	1.3	J	1	0.16	0.50	2	ug/L	EPA 8151A	
Barium - Total	24.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloride	5900		1	2200	5000	NE	ug/L	EPA 300.0	
Chromium - Total	1.57	J	1	1.40	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	1.7	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Iron - Total	1770		1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	84.9		1	1.10	10.0	50	ug/L	EPA 6010C	
Mercury - Total	0.246		1	0.170	0.200	0.2	ug/L	EPA 7470A	
Sulfate as SO4	15000	JB	1	40	5000	250000	ug/L	EPA 300.0	J-01
Tetrahydrofuran	3.6		1	0.80	1.0	NE	ug/L	EPA 8260B	
Total Alkalinity as CaCO3	110000		1	14000	15000	NE	ug/L	EPA 310.2	
Total Dissolved Solids	180000		1	10000	10000	NE	ug/L	SM 2540C-1997	
Trichlorofluoromethane	1.3		1	0.24	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	3.22	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Vinyl chloride	0.72	J	1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	7.43	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Page 6 of 44

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ANALYTICAL RESULTS

Description: 4501-MW10 | **Lab Sample ID:** C311143-01 | **Received:** 09/20/13 10:15

Matrix: Ground Water | **Sampled:** 09/18/13 09:18 | **Work Order:** C311143

Project: Henderson Co. LF C&D | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	09/27/13 18:10	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/27/13 18:10	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/27/13 18:10	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/27/13 18:10	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/27/13 18:10	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/27/13 18:10	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/27/13 18:10	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/27/13 18:10	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/27/13 18:10	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/27/13 18:10	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/27/13 18:10	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/27/13 18:10	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	09/27/13 18:10	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/27/13 18:10	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/27/13 18:10	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/27/13 18:10	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/27/13 18:10	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/27/13 18:10	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 18:10	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/27/13 18:10	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 18:10	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/27/13 18:10	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/27/13 18:10	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/27/13 18:10	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 18:10	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/27/13 18:10	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/27/13 18:10	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/27/13 18:10	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/27/13 18:10	REF	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	09/27/13 18:10	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/27/13 18:10	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/27/13 18:10	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/27/13 18:10	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/27/13 18:10	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/27/13 18:10	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/27/13 18:10	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/27/13 18:10	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 18:10	REF	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0	NE	EPA 8260B	09/27/13 18:10	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/27/13 18:10	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/27/13 18:10	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 18:10	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/27/13 18:10	REF	

Page 7 of 44

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Description: 4501-MW10
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C311143-01
Sampled: 09/18/13 09:18
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311143

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 18:10	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/27/13 18:10	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/27/13 18:10	REF	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	09/27/13 18:10	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	09/27/13 18:10	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*82 %*	*51-122*	*3I26038*	*EPA 8260B*	*09/27/13 18:10*	*REF*	
Dibromofluoromethane	*41*	*1*	*50.0*	*83 %*	*68-117*	*3I26038*	*EPA 8260B*	*09/27/13 18:10*	*REF*	
Toluene-d8	*41*	*1*	*50.0*	*82 %*	*67-127*	*3I26038*	*EPA 8260B*	*09/27/13 18:10*	*REF*	

Page 8 of 44

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Description:	4501-MW10	**Lab Sample ID:**	C311143-01	**Received:**	09/20/13 10:15
Matrix:	Ground Water	**Sampled:**	09/18/13 09:18	**Work Order:**	C311143
Project:	Henderson Co. LF C&D	**Sampled By:**	Daniel Childress		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/04/13 15:23	T1D	

Page 9 of 44

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Description: 4501-MW10 | **Lab Sample ID:** C311143-01 | **Received:** 09/20/13 10:15

Matrix: Ground Water | **Sampled:** 09/18/13 09:18 | **Work Order:** C311143

Project: Henderson Co. LF C&D | **Sampled By:** Daniel Childress

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	2.20	UD	ug/L	10	2.20	20.0	6	EPA 6020A	10/04/13 13:53	VLO	R-01
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/02/13 14:17	JDH	
Barium [7440-39-3] ^	**429**		ug/L	1	1.00	10.0	100	EPA 6010C	10/02/13 14:17	JDH	
Beryllium [7440-41-7] ^	**5.56**		ug/L	1	0.100	1.00	1	EPA 6010C	10/02/13 14:17	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/02/13 14:17	JDH	
Chromium [7440-47-3] ^	**12.6**		ug/L	1	1.40	10.0	10	EPA 6010C	10/02/13 14:17	JDH	
Cobalt [7440-48-4] ^	**15.3**		ug/L	1	1.10	10.0	10	EPA 6010C	10/02/13 14:17	JDH	
Copper [7440-50-8] ^	**31.1**		ug/L	1	1.60	10.0	10	EPA 6010C	10/02/13 14:17	JDH	
Iron [7439-89-6] ^	**52700**		ug/L	1	22.0	50.0	300	EPA 6010C	10/02/13 14:17	JDH	
Lead [7439-92-1] ^	**37.6**		ug/L	1	2.10	10.0	10	EPA 6010C	10/02/13 14:17	JDH	
Manganese [7439-96-5] ^	**1530**		ug/L	1	1.10	10.0	50	EPA 6010C	10/02/13 14:17	JDH	
Nickel [7440-02-0] ^	**7.11**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/02/13 14:17	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	10/02/13 14:17	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/02/13 14:17	JDH	
Thallium [7440-28-0] ^	1.10	UD	ug/L	10	1.10	10.0	5.5	EPA 6020A	10/04/13 13:53	VLO	R-01
Vanadium [7440-62-2] ^	**75.0**		ug/L	1	1.40	10.0	25	EPA 6010C	10/02/13 14:17	JDH	
Zinc [7440-66-6] ^	**152**		ug/L	1	3.80	10.0	10	EPA 6010C	10/02/13 14:17	JDH	

Page 10 of 44

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Description: 4501-MW10
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C311143-01
Sampled: 09/18/13 09:18
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311143

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] ^	**2400**	J	ug/L	1	2200	5000	NE	EPA 300.0	09/24/13 01:55	AJB	
Sulfate as SO4 [14808-79-8] ^	**1600**	J	ug/L	1	40	5000	250000	EPA 300.0	09/24/13 01:55	AJB	
Total Alkalinity as CaCO3 [471-34-1] ^	14000	U	ug/L	1	14000	15000	NE	EPA 310.2	09/27/13 09:38	c1v	
Total Dissolved Solids [ECL-0156] ^	10000	U	ug/L	1	10000	10000	NE	SM 2540C-1997	09/25/13 08:35	HMS	

Page 11 of 44

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Description: 4501-MW10
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C311143-01
Sampled: 09/18/13 09:18
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311143

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	09/25/13 01:05	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.0*	*1*	*2.00*	*101 %*	*68-139*	*3I23037*	*EPA 8151A*	*09/25/13 01:05*	*RGG*	

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

Page 12 of 44

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Description: 4501-MW11 (MS/MSD) **Lab Sample ID:** C311143-02 **Received:** 09/20/13 10:15
Matrix: Ground Water **Sampled:** 09/18/13 12:59 **Work Order:** C311143
Project: Henderson Co. LF C&D **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	09/30/13 17:44	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/30/13 17:44	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/30/13 17:44	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/30/13 17:44	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/30/13 17:44	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/30/13 17:44	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/30/13 17:44	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/30/13 17:44	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/30/13 17:44	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/30/13 17:44	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/30/13 17:44	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/30/13 17:44	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	09/30/13 17:44	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/30/13 17:44	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/30/13 17:44	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/30/13 17:44	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/30/13 17:44	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/30/13 17:44	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/30/13 17:44	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/30/13 17:44	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/30/13 17:44	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/30/13 17:44	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/30/13 17:44	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/30/13 17:44	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/30/13 17:44	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/30/13 17:44	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/30/13 17:44	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/30/13 17:44	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/30/13 17:44	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**1.8**	J	ug/L	1	0.15	1.0	5	EPA 8260B	09/30/13 17:44	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/30/13 17:44	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/30/13 17:44	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/30/13 17:44	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/30/13 17:44	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/30/13 17:44	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/30/13 17:44	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/30/13 17:44	REF	
Tetrachloroethene [127-18-4] ^	**0.46**	J	ug/L	1	0.17	1.0	1	EPA 8260B	09/30/13 17:44	REF	
Tetrahydrofuran [109-99-9] ^	**11**		ug/L	1	0.80	1.0	NE	EPA 8260B	09/30/13 17:44	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/30/13 17:44	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/30/13 17:44	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/30/13 17:44	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/30/13 17:44	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/30/13 17:44	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/30/13 17:44	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/30/13 17:44	REF	

Page 13 of 44

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Description: 4501-MW11 (MS/MSD)	**Lab Sample ID:** C311143-02	**Received:** 09/20/13 10:15
Matrix: Ground Water	**Sampled:** 09/18/13 12:59	**Work Order:** C311143
Project: Henderson Co. LF C&D	**Sampled By:** Daniel Childress	

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	**0.83**	J	ug/L	1	0.32	1.0	1	EPA 8260B	09/30/13 17:44	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	09/30/13 17:44	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*38*	*1*	*50.0*	*75 %*	*51-122*	*3I30026*	*EPA 8260B*	*09/30/13 17:44*	*REF*	
Dibromofluoromethane	*37*	*1*	*50.0*	*74 %*	*68-117*	*3I30026*	*EPA 8260B*	*09/30/13 17:44*	*REF*	
Toluene-d8	*41*	*1*	*50.0*	*81 %*	*67-127*	*3I30026*	*EPA 8260B*	*09/30/13 17:44*	*REF*	

Page 14 of 44

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Description:	4501-MW11 (MS/MSD)	**Lab Sample ID:**	C311143-02	**Received:**	09/20/13 10:15
Matrix:	Ground Water	**Sampled:**	09/18/13 12:59	**Work Order:**	C311143
Project:	Henderson Co. LF C&D	**Sampled By:**	Daniel Childress		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/04/13 15:05	T1D	

Page 15 of 44

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Description: 4501-MW11 (MS/MSD)
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C311143-02
Sampled: 09/18/13 12:59
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311143

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/04/13 10:48	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/02/13 14:00	JDH	
Barium [7440-39-3] ^	**59.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/02/13 14:00	JDH	
Beryllium [7440-41-7] ^	**1.12**		ug/L	1	0.100	1.00	1	EPA 6010C	10/02/13 14:00	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/02/13 14:00	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	10/02/13 14:00	JDH	
Cobalt [7440-48-4] ^	**1.56**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/02/13 14:00	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/02/13 14:00	JDH	
Iron [7439-89-6] ^	**5170**		ug/L	1	22.0	50.0	300	EPA 6010C	10/02/13 14:00	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/02/13 14:00	JDH	
Manganese [7439-96-5] ^	**390**		ug/L	1	1.10	10.0	50	EPA 6010C	10/02/13 14:00	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	10/02/13 14:00	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	10/02/13 14:00	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/02/13 14:00	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/04/13 10:48	VLO	
Vanadium [7440-62-2] ^	**1.86**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/02/13 14:00	JDH	
Zinc [7440-66-6] ^	**15.6**		ug/L	1	3.80	10.0	10	EPA 6010C	10/02/13 14:00	JDH	

Page 16 of 44

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Description: 4501-MW11 (MS/MSD)
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C311143-02
Sampled: 09/18/13 12:59
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311143

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] ^	**5000**		ug/L	1	2200	5000	NE	EPA 300.0	09/26/13 20:07	AJB	
Sulfate as SO4 [14808-79-8] ^	**18000**	JB	ug/L	1	40	5000	250000	EPA 300.0	09/26/13 20:07	AJB	QB-01
Total Alkalinity as CaCO3 [471-34-1] ^	**77000**		ug/L	1	14000	15000	NE	EPA 310.2	09/27/13 09:31	c1v	
Total Dissolved Solids [ECL-0156] ^	**110000**		ug/L	1	10000	10000	NE	SM 2540C-1997	09/25/13 08:35	HMS	

Page 17 of 44

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Description:	4501-MW11 (MS/MSD)	**Lab Sample ID:**	C311143-02	**Received:**	09/20/13 10:15
Matrix:	Ground Water	**Sampled:**	09/18/13 12:59	**Work Order:**	C311143
Project:	Henderson Co. LF C&D	**Sampled By:**	Daniel Childress		

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	09/25/13 00:39	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.5*	*1*	*2.00*	*125 %*	*68-139*	*3I23037*	*EPA 8151A*	*09/25/13 00:39*	*RGG*	

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

Page 18 of 44

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Description: 4501-MW12 | **Lab Sample ID:** C311143-03 | **Received:** 09/20/13 10:15

Matrix: Ground Water | **Sampled:** 09/18/13 11:45 | **Work Order:** C311143

Project: Henderson Co. LF C&D | **Sampled By:** Daniel Childress

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	09/27/13 18:40	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/27/13 18:40	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/27/13 18:40	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/27/13 18:40	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/27/13 18:40	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/27/13 18:40	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/27/13 18:40	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/27/13 18:40	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/27/13 18:40	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/27/13 18:40	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/27/13 18:40	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/27/13 18:40	REF	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	09/27/13 18:40	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/27/13 18:40	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/27/13 18:40	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/27/13 18:40	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/27/13 18:40	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/27/13 18:40	REF	
Benzene [71-43-2] ^	**0.47**	J	ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 18:40	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/27/13 18:40	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 18:40	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/27/13 18:40	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/27/13 18:40	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/27/13 18:40	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 18:40	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/27/13 18:40	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/27/13 18:40	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/27/13 18:40	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/27/13 18:40	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**1.1**	J	ug/L	1	0.15	1.0	5	EPA 8260B	09/27/13 18:40	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/27/13 18:40	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/27/13 18:40	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/27/13 18:40	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/27/13 18:40	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/27/13 18:40	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/27/13 18:40	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/27/13 18:40	REF	
Tetrachloroethene [127-18-4] ^	**0.40**	J	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 18:40	REF	
Tetrahydrofuran [109-99-9] ^	**13**		ug/L	1	0.80	1.0	NE	EPA 8260B	09/27/13 18:40	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/27/13 18:40	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/27/13 18:40	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 18:40	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/27/13 18:40	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 18:40	REF	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/27/13 18:40	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/27/13 18:40	REF	

Page 19 of 44

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Description: 4501-MW12	**Lab Sample ID:** C311143-03	**Received:** 09/20/13 10:15
Matrix: Ground Water	**Sampled:** 09/18/13 11:45	**Work Order:** C311143
Project: Henderson Co. LF C&D	**Sampled By:** Daniel Childress	

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	**0.79**	J	ug/L	1	0.32	1.0	1	EPA 8260B	09/27/13 18:40	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	09/27/13 18:40	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*40*	*1*	*50.0*	*79 %*	*51-122*	*3I26038*	*EPA 8260B*	*09/27/13 18:40*	*REF*	
Dibromofluoromethane	*42*	*1*	*50.0*	*83 %*	*68-117*	*3I26038*	*EPA 8260B*	*09/27/13 18:40*	*REF*	
Toluene-d8	*39*	*1*	*50.0*	*78 %*	*67-127*	*3I26038*	*EPA 8260B*	*09/27/13 18:40*	*REF*	

Page 20 of 44

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Description: 4501-MW12
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C311143-03
Sampled: 09/18/13 11:45
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311143

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/04/13 15:26	T1D	

Page 21 of 44

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Description: 4501-MW12 | **Lab Sample ID:** C311143-03 | **Received:** 09/20/13 10:15

Matrix: Ground Water | **Sampled:** 09/18/13 11:45 | **Work Order:** C311143

Project: Henderson Co. LF C&D | **Sampled By:** Daniel Childress

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/04/13 11:12	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/02/13 14:29	JDH	
Barium [7440-39-3] ^	**16.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/02/13 14:29	JDH	
Beryllium [7440-41-7] ^	**0.193**	J	ug/L	1	0.100	1.00	1	EPA 6010C	10/02/13 14:29	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/02/13 14:29	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	10/02/13 14:29	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	10/02/13 14:29	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/02/13 14:29	JDH	
Iron [7439-89-6] ^	**1270**		ug/L	1	22.0	50.0	300	EPA 6010C	10/02/13 14:29	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/02/13 14:29	JDH	
Manganese [7439-96-5] ^	**214**		ug/L	1	1.10	10.0	50	EPA 6010C	10/02/13 14:29	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	10/02/13 14:29	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	10/02/13 14:29	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/02/13 14:29	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/04/13 11:12	VLO	
Vanadium [7440-62-2] ^	**1.72**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/02/13 14:29	JDH	
Zinc [7440-66-6] ^	**9.51**	J	ug/L	1	3.80	10.0	10	EPA 6010C	10/02/13 14:29	JDH	

Page 22 of 44

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Description: 4501-MW12
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C311143-03
Sampled: 09/18/13 11:45
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311143

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] ^	**13000**		ug/L	1	2200	5000	NE	EPA 300.0	09/26/13 20:24	AJB	
Sulfate as SO4 [14808-79-8] ^	**14000**	JB	ug/L	1	40	5000	250000	EPA 300.0	09/26/13 20:24	AJB	J-01
Total Alkalinity as CaCO3 [471-34-1] ^	**110000**		ug/L	1	14000	15000	NE	EPA 310.2	09/27/13 09:41	c1v	
Total Dissolved Solids [ECL-0156] ^	**180000**		ug/L	1	10000	10000	NE	SM 2540C-1997	09/24/13 10:58	HMS	

Page 23 of 44

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Description: 4501-MW12
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C311143-03
Sampled: 09/18/13 11:45
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311143

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4-D [94-75-7] ^	0.16	U	ug/L	1	0.16	0.50	2	EPA 8151A	09/25/13 01:30	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.7*	*1*	*2.00*	*86 %*	*68-139*	*3I23037*	*EPA 8151A*	*09/25/13 01:30*	*RGG*	

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Page 24 of 44

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Description: 4501-MW13
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C311143-04
Sampled: 09/18/13 11:08
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311143

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	09/27/13 19:09	REF	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/27/13 19:09	REF	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/27/13 19:09	REF	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/27/13 19:09	REF	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/27/13 19:09	REF	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/27/13 19:09	REF	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/27/13 19:09	REF	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/27/13 19:09	REF	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/27/13 19:09	REF	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/27/13 19:09	REF	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/27/13 19:09	REF	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/27/13 19:09	REF	
1,4-Dichlorobenzene [106-46-7] ^	**0.55**	J	ug/L	1	0.19	1.0	1	EPA 8260B	09/27/13 19:09	REF	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/27/13 19:09	REF	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/27/13 19:09	REF	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/27/13 19:09	REF	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/27/13 19:09	REF	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/27/13 19:09	REF	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 19:09	REF	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/27/13 19:09	REF	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 19:09	REF	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/27/13 19:09	REF	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/27/13 19:09	REF	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/27/13 19:09	REF	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 19:09	REF	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/27/13 19:09	REF	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/27/13 19:09	REF	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/27/13 19:09	REF	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/27/13 19:09	REF	
cis-1,2-Dichloroethene [156-59-2] ^	**1.7**	J	ug/L	1	0.15	1.0	5	EPA 8260B	09/27/13 19:09	REF	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/27/13 19:09	REF	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/27/13 19:09	REF	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/27/13 19:09	REF	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/27/13 19:09	REF	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/27/13 19:09	REF	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/27/13 19:09	REF	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/27/13 19:09	REF	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/27/13 19:09	REF	
Tetrahydrofuran [109-99-9] ^	**3.6**		ug/L	1	0.80	1.0	NE	EPA 8260B	09/27/13 19:09	REF	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/27/13 19:09	REF	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/27/13 19:09	REF	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 19:09	REF	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/27/13 19:09	REF	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/27/13 19:09	REF	
Trichlorofluoromethane [75-69-4] ^	**1.3**		ug/L	1	0.24	1.0	1	EPA 8260B	09/27/13 19:09	REF	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/27/13 19:09	REF	

Page 25 of 44

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Description: 4501-MW13
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C311143-04
Sampled: 09/18/13 11:08
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311143

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	**0.72**	J	ug/L	1	0.32	1.0	1	EPA 8260B	09/27/13 19:09	REF	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	09/27/13 19:09	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*84 %*	*51-122*	*3I26038*	*EPA 8260B*	*09/27/13 19:09*	*REF*	
Dibromofluoromethane	*41*	*1*	*50.0*	*83 %*	*68-117*	*3I26038*	*EPA 8260B*	*09/27/13 19:09*	*REF*	
Toluene-d8	*40*	*1*	*50.0*	*81 %*	*67-127*	*3I26038*	*EPA 8260B*	*09/27/13 19:09*	*REF*	

Page 26 of 44

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Description:	4501-MW13	**Lab Sample ID:**	C311143-04	**Received:**	09/20/13 10:15
Matrix:	Ground Water	**Sampled:**	09/18/13 11:08	**Work Order:**	C311143
Project:	Henderson Co. LF C&D	**Sampled By:**	Daniel Childress		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.246**		ug/L	1	0.170	0.200	0.2	EPA 7470A	10/04/13 15:29	T1D	

Page 27 of 44

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Description: 4501-MW13
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C311143-04
Sampled: 09/18/13 11:08
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311143

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/04/13 11:16	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/02/13 14:32	JDH	
Barium [7440-39-3] ^	**24.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/02/13 14:32	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/02/13 14:32	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/02/13 14:32	JDH	
Chromium [7440-47-3] ^	**1.57**	J	ug/L	1	1.40	10.0	10	EPA 6010C	10/02/13 14:32	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	10/02/13 14:32	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/02/13 14:32	JDH	
Iron [7439-89-6] ^	**1770**		ug/L	1	22.0	50.0	300	EPA 6010C	10/02/13 14:32	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/02/13 14:32	JDH	
Manganese [7439-96-5] ^	**84.9**		ug/L	1	1.10	10.0	50	EPA 6010C	10/02/13 14:32	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	10/02/13 14:32	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	10/02/13 14:32	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/02/13 14:32	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/04/13 11:16	VLO	
Vanadium [7440-62-2] ^	**3.22**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/02/13 14:32	JDH	
Zinc [7440-66-6] ^	**7.43**	J	ug/L	1	3.80	10.0	10	EPA 6010C	10/02/13 14:32	JDH	

Page 28 of 44

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Description: 4501-MW13
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C311143-04
Sampled: 09/18/13 11:08
Sampled By: Daniel Childress

Received: 09/20/13 10:15
Work Order: C311143

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] ^	**5900**		ug/L	1	2200	5000	NE	EPA 300.0	09/26/13 20:42	AJB	
Sulfate as SO4 [14808-79-8] ^	**15000**	JB	ug/L	1	40	5000	250000	EPA 300.0	09/26/13 20:42	AJB	J-01
Total Alkalinity as CaCO3 [471-34-1] ^	**110000**		ug/L	1	14000	15000	NE	EPA 310.2	09/27/13 09:41	c1v	
Total Dissolved Solids [ECL-0156] ^	**180000**		ug/L	1	10000	10000	NE	SM 2540C-1997	09/24/13 10:58	HMS	

Page 29 of 44

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Description:	4501-MW13	**Lab Sample ID:**	C311143-04	**Received:**	09/20/13 10:15
Matrix:	Ground Water	**Sampled:**	09/18/13 11:08	**Work Order:**	C311143
Project:	Henderson Co. LF C&D	**Sampled By:**	Daniel Childress		

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4-D [94-75-7] ^	**1.3**	J	ug/L	1	0.16	0.50	2	EPA 8151A	09/25/13 01:55	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.2*	*1*	*2.00*	*108 %*	*68-139*	*3I23037*	*EPA 8151A*	*09/25/13 01:55*	*RGG*	

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

Page 30 of 44

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3I26038 - EPA 5030B_MS

Blank (3I26038-BLK1) Prepared: 09/26/2013 15:58 Analyzed: 09/27/2013 12:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Tetrahydrofuran	0.80	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							

Page 31 of 44

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3I26038 - EPA 5030B_MS

Blank (3I26038-BLK1) Continued Prepared: 09/26/2013 15:58 Analyzed: 09/27/2013 12:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*41*			*ug/L*	*50.0*		*82*	*51-122*			
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*85*	*68-117*			
Surrogate: Toluene-d8	*39*			*ug/L*	*50.0*		*79*	*67-127*			

LCS (3I26038-BS1) Prepared: 09/26/2013 15:58 Analyzed: 09/27/2013 13:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		102	75-133			
Benzene	20		1.0	ug/L	20.0		98	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		103	83-117			
Toluene	17		1.0	ug/L	20.0		87	71-118			
Trichloroethene	21		1.0	ug/L	20.0		107	74-119			

Matrix Spike (3I26038-MS1) Prepared: 09/26/2013 15:58 Analyzed: 09/27/2013 13:43

Source: C311142-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	112	75-133			
Benzene	23		1.0	ug/L	20.0	1.7	107	81-134			
Chlorobenzene	31		1.0	ug/L	20.0	8.0	115	83-117			
Toluene	18		1.0	ug/L	20.0	0.14 U	92	71-118			
Trichloroethene	24		1.0	ug/L	20.0	0.15 U	122	74-119			QM-07

Matrix Spike Dup (3I26038-MSD1) Prepared: 09/26/2013 15:58 Analyzed: 09/27/2013 14:13

Source: C311142-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	111	75-133	0.9	20	
Benzene	23		1.0	ug/L	20.0	1.7	105	81-134	2	17	
Chlorobenzene	31		1.0	ug/L	20.0	8.0	115	83-117	0.06	16	
Toluene	19		1.0	ug/L	20.0	0.14 U	96	71-118	5	17	
Trichloroethene	23		1.0	ug/L	20.0	0.15 U	117	74-119	4	22	

Batch 3I30026 - EPA 5030B_MS

Blank (3I30026-BLK1) Prepared: 09/30/2013 13:45 Analyzed: 09/30/2013 15:47

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

Page 32 of 44

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3I30026 - EPA 5030B_MS

Blank (3I30026-BLK1) Continued Prepared: 09/30/2013 13:45 Analyzed: 09/30/2013 15:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Tetrahydrofuran	0.80	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*39*			*ug/L*	*50.0*		*78*	*51-122*			
Surrogate: Dibromofluoromethane	*37*			*ug/L*	*50.0*		*74*	*68-117*			
Surrogate: Toluene-d8	*40*			*ug/L*	*50.0*		*81*	*67-127*			

LCS (3I30026-BS1) Prepared: 09/30/2013 13:45 Analyzed: 09/30/2013 16:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		112	75-133			
Benzene	22		1.0	ug/L	20.0		110	81-134			

Page 33 of 44

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 3I30026 - EPA 5030B_MS

LCS (3I30026-BS1) Continued Prepared: 09/30/2013 13:45 Analyzed: 09/30/2013 16:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	23		1.0	ug/L	20.0		113	83-117			
Toluene	23		1.0	ug/L	20.0		114	71-118			
Trichloroethene	21		1.0	ug/L	20.0		107	74-119			

Matrix Spike (3I30026-MS1) Prepared: 09/30/2013 13:45 Analyzed: 09/30/2013 16:45

Source: C311143-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.21 U	95	75-133			
Benzene	22		1.0	ug/L	20.0	0.15 U	109	81-134			
Chlorobenzene	23		1.0	ug/L	20.0	0.17 U	116	83-117			
Toluene	22		1.0	ug/L	20.0	0.14 U	110	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	100	74-119			

Matrix Spike Dup (3I30026-MSD1) Prepared: 09/30/2013 13:45 Analyzed: 09/30/2013 17:14

Source: C311143-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	109	75-133	14	20	
Benzene	22		1.0	ug/L	20.0	0.15 U	108	81-134	1	17	
Chlorobenzene	23		1.0	ug/L	20.0	0.17 U	114	83-117	2	16	
Toluene	23		1.0	ug/L	20.0	0.14 U	113	71-118	3	17	
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	103	74-119	3	22	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 3J03034 - EPA 7470A

Blank (3J03034-BLK1) Prepared: 10/03/2013 16:46 Analyzed: 10/04/2013 15:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (3J03034-BS1) Prepared: 10/03/2013 16:46 Analyzed: 10/04/2013 15:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.95		0.200	ug/L	5.00		99	80-120			

Matrix Spike (3J03034-MS1) Prepared: 10/03/2013 16:46 Analyzed: 10/04/2013 15:07

Source: C311143-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.57		0.200	ug/L	5.00	0.170 U	91	75-125			

Matrix Spike Dup (3J03034-MSD1) Prepared: 10/03/2013 16:46 Analyzed: 10/04/2013 15:09

Source: C311143-02

Page 34 of 44

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 3J03034 - EPA 7470A

Matrix Spike Dup (3J03034-MSD1) Continued Prepared: 10/03/2013 16:46 Analyzed: 10/04/2013 15:09

Source: C311143-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.65		0.200	ug/L	5.00	0.170 U	93	75-125	2	25	

Post Spike (3J03034-PS1) Prepared: 10/03/2013 16:46 Analyzed: 10/04/2013 15:17

Source: C311143-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.01		0.200	ug/L	5.00	-0.0270	81	75-125			

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

Batch 3J01009 - EPA 3005A

Blank (3J01009-BLK1) Prepared: 10/01/2013 09:38 Analyzed: 10/04/2013 10:40

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

LCS (3J01009-BS1) Prepared: 10/01/2013 09:38 Analyzed: 10/04/2013 10:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	210		2.00	ug/L	200		105	80-120			
Thallium	203		1.00	ug/L	200		101	80-120			

Matrix Spike (3J01009-MS1) Prepared: 10/01/2013 09:38 Analyzed: 10/04/2013 10:52

Source: C311143-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	213		2.00	ug/L	200	0.220 U	106	75-125			
Thallium	195		1.00	ug/L	200	0.110 U	97	75-125			

Matrix Spike Dup (3J01009-MSD1) Prepared: 10/01/2013 09:38 Analyzed: 10/04/2013 10:56

Source: C311143-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	215		2.00	ug/L	200	0.220 U	108	75-125	1	20	
Thallium	197		1.00	ug/L	200	0.110 U	99	75-125	1	20	

Post Spike (3J01009-PS1) Prepared: 10/01/2013 09:38 Analyzed: 10/04/2013 11:00

Source: C311143-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	211		2.00	ug/L	200	-0.0827	105	80-120			
Thallium	195		1.00	ug/L	200	0.0807	97	80-120			

Page 35 of 44

QUALITY CONTROL

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

Batch 3J01012 - EPA 3005A

Blank (3J01012-BLK1) Prepared: 10/01/2013 09:48 Analyzed: 10/02/2013 13:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	5.40	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.40	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Iron	22.0	U	50.0	ug/L							
Lead	2.10	U	10.0	ug/L							
Manganese	1.10	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Selenium	5.00	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (3J01012-BS1) Prepared: 10/01/2013 09:48 Analyzed: 10/02/2013 13:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	201		10.0	ug/L	200		101	80-120			
Barium	209		10.0	ug/L	200		104	80-120			
Beryllium	20.0		1.00	ug/L	20.0		100	80-120			
Cadmium	20.3		1.00	ug/L	20.0		101	80-120			
Chromium	201		10.0	ug/L	200		100	80-120			
Cobalt	204		10.0	ug/L	200		102	80-120			
Copper	201		10.0	ug/L	200		101	80-120			
Iron	1060		50.0	ug/L	1000		106	80-120			
Lead	205		10.0	ug/L	200		103	80-120			
Manganese	199		10.0	ug/L	200		100	80-120			
Nickel	208		10.0	ug/L	200		104	80-120			
Selenium	202		10.0	ug/L	200		101	80-120			
Silver	208		10.0	ug/L	200		104	80-120			
Vanadium	203		10.0	ug/L	200		102	80-120			
Zinc	201		10.0	ug/L	200		101	80-120			

Matrix Spike (3J01012-MS1) Prepared: 10/01/2013 09:48 Analyzed: 10/02/2013 14:03

Source: C311143-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	191		10.0	ug/L	200	5.40 U	96	75-125			
Barium	260		10.0	ug/L	200	59.6	100	75-125			
Beryllium	21.0		1.00	ug/L	20.0	1.12	99	75-125			
Cadmium	19.4		1.00	ug/L	20.0	0.360 U	97	75-125			
Chromium	197		10.0	ug/L	200	1.40 U	99	75-125			
Cobalt	197		10.0	ug/L	200	1.56	98	75-125			
Copper	198		10.0	ug/L	200	1.60 U	99	75-125			
Iron	6280		50.0	ug/L	1000	5170	111	75-125			
Lead	201		10.0	ug/L	200	2.10 U	100	75-125			

Page 36 of 44

QUALITY CONTROL

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

Batch 3J01012 - EPA 3005A

Matrix Spike (3J01012-MS1) Continued Prepared: 10/01/2013 09:48 Analyzed: 10/02/2013 14:03

Source: C311143-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Manganese	589		10.0	ug/L	200	390	100	75-125			
Nickel	200		10.0	ug/L	200	1.80 U	100	75-125			
Selenium	195		10.0	ug/L	200	5.00 U	98	75-125			
Silver	205		10.0	ug/L	200	1.90 U	103	75-125			
Vanadium	204		10.0	ug/L	200	1.86	101	75-125			
Zinc	207		10.0	ug/L	200	15.6	96	75-125			

Matrix Spike Dup (3J01012-MSD1) Prepared: 10/01/2013 09:48 Analyzed: 10/02/2013 14:05

Source: C311143-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	200		10.0	ug/L	200	5.40 U	100	75-125	4	20	
Barium	271		10.0	ug/L	200	59.6	105	75-125	4	20	
Beryllium	21.3		1.00	ug/L	20.0	1.12	101	75-125	2	20	
Cadmium	20.4		1.00	ug/L	20.0	0.360 U	102	75-125	5	20	
Chromium	203		10.0	ug/L	200	1.40 U	101	75-125	3	20	
Cobalt	206		10.0	ug/L	200	1.56	102	75-125	4	20	
Copper	203		10.0	ug/L	200	1.60 U	101	75-125	2	20	
Iron	6510		50.0	ug/L	1000	5170	133	75-125	3	20	QM-05
Lead	208		10.0	ug/L	200	2.10 U	104	75-125	3	20	
Manganese	602		10.0	ug/L	200	390	106	75-125	2	20	
Nickel	209		10.0	ug/L	200	1.80 U	104	75-125	4	20	
Selenium	207		10.0	ug/L	200	5.00 U	103	75-125	6	20	
Silver	209		10.0	ug/L	200	1.90 U	104	75-125	2	20	
Vanadium	208		10.0	ug/L	200	1.86	103	75-125	2	20	
Zinc	217		10.0	ug/L	200	15.6	101	75-125	5	20	

Post Spike (3J01012-PS1) Prepared: 10/01/2013 09:48 Analyzed: 10/02/2013 14:07

Source: C311143-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.195		0.0100	mg/L	0.200	-0.00713	101	80-120			
Barium	0.261		0.0100	mg/L	0.200	0.0596	101	80-120			
Beryllium	0.0206		0.00100	mg/L	0.0200	0.00112	97	80-120			
Cadmium	0.0196		0.00100	mg/L	0.0200	-0.000239	99	80-120			
Chromium	0.195		0.0100	mg/L	0.200	0.000167	97	80-120			
Cobalt	0.198		0.0100	mg/L	0.200	0.00156	98	80-120			
Copper	0.195		0.0100	mg/L	0.200	0.000182	97	80-120			
Iron	6.08		0.0500	mg/L	1.00	5.17	91	80-120			
Lead	0.200		0.0100	mg/L	0.200	0.000651	100	80-120			
Manganese	0.579		0.0100	mg/L	0.200	0.390	94	80-120			
Nickel	0.202		0.0100	mg/L	0.200	1.04E-5	101	80-120			
Selenium	0.200		0.0100	mg/L	0.200	-0.000541	100	80-120			
Silver	0.201		0.0100	mg/L	0.200	0.000296	100	80-120			
Vanadium	0.200		0.0100	mg/L	0.200	0.00186	99	80-120			
Zinc	0.210		0.0100	mg/L	0.200	0.0156	97	80-120			

Page 37 of 44

QUALITY CONTROL

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

Batch 3J01012 - EPA 3005A

Classical Chemistry Parameters - Quality Control

Batch 3I23008 - NO PREP

Blank (3I23008-BLK1) Prepared & Analyzed: 09/23/2013 21:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	2200	U	5000	ug/L							
Sulfate as SO4	40	U	5000	ug/L							

LCS (3I23008-BS1) Prepared & Analyzed: 09/23/2013 23:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	49000		5000	ug/L	50000		99	90-110			
Sulfate as SO4	48000		5000	ug/L	50000		95	90-110			

Matrix Spike (3I23008-MS1) Prepared & Analyzed: 09/23/2013 23:53

Source: C311145-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	39000		5000	ug/L	20000	19000	101	90-110			
Sulfate as SO4	23000		5000	ug/L	20000	5700	87	90-110			QM-05

Matrix Spike Dup (3I23008-MSD1) Prepared & Analyzed: 09/24/2013 00:10

Source: C311145-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	41000		5000	ug/L	20000	19000	106	90-110	3	10	
Sulfate as SO4	24000		5000	ug/L	20000	5700	91	90-110	4	10	

Batch 3I23039 - NO PREP

Blank (3I23039-BLK1) Prepared: 09/25/2013 08:35 Analyzed: 09/25/2013 08:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	10000	U	10000	ug/L							

LCS (3I23039-BS1) Prepared: 09/25/2013 08:35 Analyzed: 09/25/2013 08:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	970		10	mg/L	1000		97	90-110			

Duplicate (3I23039-DUP1) Prepared: 09/25/2013 08:35 Analyzed: 09/25/2013 08:35

Source: C311143-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	110000		10000	ug/L		110000			2	10	

Batch 3I23040 - NO PREP

Page 38 of 44

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 3I23040 - NO PREP

Blank (3I23040-BLK1) Prepared: 09/24/2013 10:58 Analyzed: 09/24/2013 10:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	10000	U	10000	ug/L							

LCS (3I23040-BS1) Prepared: 09/24/2013 10:58 Analyzed: 09/24/2013 10:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	1000		10	mg/L	1000		102	90-110			

Duplicate (3I23040-DUP1) Prepared: 09/24/2013 10:58 Analyzed: 09/24/2013 10:58

Source: C310646-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	640000		10000	ug/L		660000			3	10	

Batch 3I26030 - NO PREP

Blank (3I26030-BLK1) Prepared: 09/26/2013 12:31 Analyzed: 09/26/2013 14:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	2200	U	5000	ug/L							
Sulfate as SO4	**1500**	**J**	5000	ug/L							

LCS (3I26030-BS1) Prepared: 09/26/2013 12:31 Analyzed: 09/26/2013 14:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	50000		5000	ug/L	50000		99	90-110			
Sulfate as SO4	48000	B	5000	ug/L	50000		96	90-110			

Matrix Spike (3I26030-MS1) Prepared: 09/26/2013 12:31 Analyzed: 09/26/2013 16:36

Source: C309771-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	21000		5000	ug/L	20000	3400	89	90-110			QM-05
Sulfate as SO4	19000	B	5000	ug/L	20000	2600	84	90-110			QM-05

Matrix Spike (3I26030-MS2) Prepared: 09/26/2013 12:31 Analyzed: 09/26/2013 17:11

Source: C311143-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	23000		5000	ug/L	20000	5000	90	90-110			
Sulfate as SO4	38000	B	5000	ug/L	20000	18000	98	90-110			

Matrix Spike (3I26030-MS4) Prepared: 09/26/2013 12:31 Analyzed: 09/27/2013 15:18

Source: C311890-04RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	150000	B	10000	ug/L	40000	110000	109	90-110			

Page 39 of 44

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 3I26030 - NO PREP

Matrix Spike (3I26030-MS5) Prepared: 09/26/2013 12:31 Analyzed: 09/27/2013 15:53

Source: C311890-04RE2

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	1800000		100000	ug/L	400000	1400000	103	90-110			

Matrix Spike Dup (3I26030-MSD1) Prepared: 09/26/2013 12:31 Analyzed: 09/26/2013 16:54

Source: C309771-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	22000		5000	ug/L	20000	3400	91	90-110	1	10	
Sulfate as SO4	20000	B	5000	ug/L	20000	2600	85	90-110	1	10	QM-05

Matrix Spike Dup (3I26030-MSD2) Prepared: 09/26/2013 12:31 Analyzed: 09/26/2013 17:29

Source: C311143-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	23000		5000	ug/L	20000	5000	91	90-110	1	10	
Sulfate as SO4	38000	B	5000	ug/L	20000	18000	99	90-110	0.7	10	

Matrix Spike Dup (3I26030-MSD4) Prepared: 09/26/2013 12:31 Analyzed: 09/27/2013 15:36

Source: C311890-04RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	150000	B	10000	ug/L	40000	110000	107	90-110	0.6	10	

Matrix Spike Dup (3I26030-MSD5) Prepared: 09/26/2013 12:31 Analyzed: 09/27/2013 16:11

Source: C311890-04RE2

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	1800000		100000	ug/L	400000	1400000	105	90-110	0.4	10	

Batch 3I27001 - NO PREP

Blank (3I27001-BLK1) Prepared: 09/27/2013 07:54 Analyzed: 09/27/2013 09:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	14000	U	15000	ug/L							

LCS (3I27001-BS1) Prepared: 09/27/2013 07:54 Analyzed: 09/27/2013 09:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	100		15	mg/L	100		101	80-120			

Matrix Spike (3I27001-MS1) Prepared: 09/27/2013 07:54 Analyzed: 09/27/2013 09:32

Source: C311143-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Page 40 of 44

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 3I27001 - NO PREP

Matrix Spike (3I27001-MS1) Continued Prepared: 09/27/2013 07:54 Analyzed: 09/27/2013 09:32

Source: C311143-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	120000		15000	ug/L	37800	77000	104	80-120			

Matrix Spike (3I27001-MS2) Prepared: 09/27/2013 07:54 Analyzed: 09/27/2013 10:25

Source: C311890-04RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	310000		30000	ug/L	80000	240000	83	80-120			

Matrix Spike Dup (3I27001-MSD1) Prepared: 09/27/2013 07:54 Analyzed: 09/27/2013 09:33

Source: C311143-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	110000		15000	ug/L	37800	77000	94	80-120	3	25	

Matrix Spike Dup (3I27001-MSD2) Prepared: 09/27/2013 07:54 Analyzed: 09/27/2013 10:25

Source: C311890-04RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	310000		30000	ug/L	80000	240000	80	80-120	0.9	25	

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 3I23037 - EPA 3510C

Blank (3I23037-BLK1) Prepared: 09/23/2013 16:30 Analyzed: 09/24/2013 20:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	0.16	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*102*	*68-139*			

Blank (3I23037-BLK2) Prepared: 09/24/2013 10:00 Analyzed: 09/24/2013 23:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	0.80	U	2.5	ug/L							
Surrogate: 2,4-DCAA	*12*			*ug/L*	*10.0*		*119*	*68-139*			

LCS (3I23037-BS1) Prepared: 09/23/2013 16:30 Analyzed: 09/24/2013 21:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	2.2		0.50	ug/L	2.00		111	37-129			
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*102*	*68-139*			

Matrix Spike (3I23037-MS1) Prepared: 09/23/2013 16:30 Analyzed: 09/24/2013 22:08

Page 41 of 44

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 3I23037 - EPA 3510C

Matrix Spike (3I23037-MS1) Continued Prepared: 09/23/2013 16:30 Analyzed: 09/24/2013 22:08

Source: A305332-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	2.7		0.50	ug/L	2.00	0.16 U	135	37-129			QM-07
Surrogate: 2,4-DCAA	*2.2*			*ug/L*	*2.00*		*111*	*68-139*			

Matrix Spike (3I23037-MS2) Prepared: 09/24/2013 10:00 Analyzed: 09/24/2013 23:49

Source: C311143-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	2.5		0.50	ug/L	2.00	0.16 U	127	37-129			
Surrogate: 2,4-DCAA	*1.9*			*ug/L*	*2.00*		*95*	*68-139*			

Matrix Spike Dup (3I23037-MSD1) Prepared: 09/23/2013 16:30 Analyzed: 09/24/2013 22:33

Source: A305332-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	2.7		0.50	ug/L	2.00	0.16 U	133	37-129	2	33	QM-07
Surrogate: 2,4-DCAA	*2.3*			*ug/L*	*2.00*		*117*	*68-139*			

Matrix Spike Dup (3I23037-MSD2) Prepared: 09/24/2013 10:00 Analyzed: 09/25/2013 00:14

Source: C311143-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	2.6		0.50	ug/L	2.00	0.16 U	129	37-129	1	33	
Surrogate: 2,4-DCAA	*2.1*			*ug/L*	*2.00*		*106*	*68-139*			

Page 42 of 44

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the associated method blank.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.

Page 43 of 44

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

www.encolabs.com

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

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

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

Page 1 of 1

Client Name: Golder Associates, Inc. (GO007)	Project Number: 0839-6506013.100
Address: 5B Oak Branch Drive	Project Name/Desc: Henderson Co. LF C&D
City/ST/Zip: Greensboro, NC 27407	PO # / Billing Info:
Tel: (336) 852-4903 Fax: (336) 852-4904	Reporting Contact: Dusty Reedy
Sampler(s) Name, Affiliation (Print): Daniel Childress, Golder	Billing Contact: Accounts Payable
Sampler(s) Signature: Daniel Childress	Site Location / Time Zone: Hendersonville, NC / EST

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C311143

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

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8151A Appendix 2	8260B Appendix 1,8260B Extended	Ag,As,Ba,Be,Ca,Co,Cr,Cu,Fe,Mn,Ni,Pb,Sb,Se,Sa,Tl,V,Zn	Alkalinity 310.2,Chloride 300,TDS SM2540C	Hg	Sulfate 300					Sample Comments
	4501-MW10	9/18/13	0918	G	GW	6	X	X	X	X	X	X					Dissolved Metals in addition to Total Metals
	4501-MW11 (MS/MSD)	9/18/13	1259	G	GW	11	X	X	X	X	X	X					
	4501-MW12	9/18/13	1145	G	GW	6	X	X	X	X	X	X					
	4501-MW13	9/18/13	1108	G	GW	6	X	X	X	X	X	X					

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
LB	9/6	Daniel Childress	9/20/13 0900	[illegible]	9-20-13 1015
		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Comments/Special Reporting Requirements
1) Please provide a "Level 2" data report.
2) Unit rates per "Basic Ordering Agreement for Lab Services" dated 4/9/04 + 2013 Unit Price Sheet.
Est fee = $1500

Cooler #'s & Temps on Receipt: C-201 1.7c, C-13 1.3c

Condition Upon Receipt: ✓ Acceptable ___ Unacceptable

Matrix: GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

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

LOA per: Daniel Childress Accepted by: [illegible]

WORK ORDER

Printed: 10/9/2013 3:49:53PM

C311143

ENCO Cary

Sample Receipt Conditions

Client:	**Golder Associates, Inc. (GO007)**	**Lab Project Mgr:**	**Stephanie Franz**
Project:	**Henderson Co. LF C&D**	**Project Number:**	**0839-6506013.100**
PO #:			

Report To:

Golder Associates, Inc. (GO007)
Dusty Reedy
5B Oak Branch Drive
Greensboro, NC 27407
Phone: (336) 852-4903
Fax: (336) 852-4904

Invoice To:

Golder Associates, Inc. (GO007)
Accounts Payable
5B Oak Branch Drive
Greensboro, NC 27407
Phone :(804) 358-7900
Fax: 804-358-2900

Received By:	John C King	Date Received:	20-Sep-13 10:15
Logged In By:	John C King	Date Logged In:	20-Sep-13 12:49

Work Order Comments:

C-13 received at 1.7°C

Containers Intact	Y	Containers Properly Preserved	Y	Proper Containers Received	Y	All Samples in PreLog Received	Y	COC/Labels Agree	Y
Custody Seals Intact	Y	Volatile Containers Preserved	Y	Volatile Containers Headspace Free	Y	Aqueous Samples Checked for Residual Cl	N	Received On Ice	Y

C-701 received at 1.7°C

Containers Intact	Y	Containers Properly Preserved	Y	Proper Containers Received	Y	All Samples in PreLog Received	Y	COC/Labels Agree	Y
Custody Seals Intact	Y	Volatile Containers Preserved	Y	Volatile Containers Headspace Free	Y	Aqueous Samples Checked for Residual Cl	N	Received On Ice	Y

GOLDER ASSOCIATES INC.
QUALITY ASSURANCE & QUALITY CONTROL
LABORATORY DATA REVIEW

Project Name: Henderson County C&D Landfill

Project Reference Number: 0839-650613.100

Sampling Event Date: September 18-19, 2013

Review Date: October 30, 2013 *Initials:* BF

Report #: C311143

Person(s) performing the review are to initial each item on this form as acknowledgement of data acceptance, or as acknowledgement of a review issue. In the case of the latter, a brief explanation should follow the applicable item.

Golder Associates Inc. has reviewed the laboratory certificates of analysis, chain-of-custody form, and laboratory provided sample group quality assurance and quality control data for the above referenced sample group to identify potential bias or inaccuracy, in general accordance with the following United States Environmental Protection Agency documents:

- Region III Modifications to Functional Guidelines for Organic Data Review Multi-Media, Multi-Concentration, September 1994;
- Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses, April 1993; and
- Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses, July 1998.

COMPLIANCE ANALYTE LIST(S) (check all that apply)

_ NC Closed Facility List (.500 Rules)

X NC C & D List (New Rules)

_ NC Appendix I

_ NC Appendix I + Detects

_ NC Appendix II

_ NC Subtitle D Leachate List

Other: _____

1.0 CHAIN OF CUSTODY (COC) REVIEW

BF COC was properly signed by all parties.

BF Correct project name and number are on the form.

BF Sample receipt condition at laboratory was acceptable.

BF Each sample and blank submitted for analysis appears in the report.

2.0 SAMPLE HOLDING TIMES

BF Holding times for extraction and/or analysis were met for each analytical Method (see below for reference).

Review Criteria		
Method	**Analytes**	**Holding Time**
SW-846 Method 8260 and 8011	VOCs	14 days
SW-846 Methods 8270, 8080, 8081, 8082, and 8151	SVOCs, PCBs, pesticides and herbicides	7 days for extraction, 40 days from extraction for analysis
SW-846 Methods 6000 and 7000 Series	Metals except mercury	6 months (no temperature requirements)
SW-846 Method 7470	Mercury	28 days
SW-846 Method 376.1	Sulfide	7 days
SW-846 Method 9010	Cyanide	14 days
EPA Method 300	Nitrate/Sulfate	48 hours/28 days
EPA Method 405.1	BOD	48 hours
EPA Method 410.4	COD	28 days
EPA Method 365.4	Phosphorous	28 days

3.0 LABORATORY QUALITY CONTROL REVIEW

BF Laboratory analyzed at least one internal blank for each method, where applicable.

BF Laboratory blank is interference-free.

- ***Sulfate was detected in the Method Blank at a low-level concentration (less than half of the MRL). Detections of this analyte should be considered to have a possible high bias if the concentration in the associated sample is not greater than ten times that of the detection in the Method Blank.***

BF Surrogate recoveries are provided for each analytical method, where applicable.

BF Surrogate recoveries for each method are within the acceptable limits (i.e., at least 50% of the surrogates were within range).

BF MS/MSD/LCS data results are provided for each analytical method.

BF MS/MSD/LCS recoveries for each method are within the acceptable limits (i.e., at least 1 of the 3 were within range).

- ***The spike recovery of Chloride and Sulfate were outside of control limits for the MS and/or MSD samples. The QC batches were approved based on acceptable LCS recovery of these analytes.***

- ***The spike recovery of Iron was outside of control limits for the 6010C MSD sample. The QC batch was based on acceptable LCS recovery of this analyte.***

- ***The spike recovery of 2,4-D was outside of control limits for the 8151A MS and MSD samples. The QC batch was based on acceptable LCS recovery of this analyte.***

- ***The spike recovery of Trichloroethene was outside of control limits for the 8260B MS sample. The QC batch was based on acceptable LCS recovery of this analyte.***

4.0 ANALYTE LISTS/METHODS

BF The proper number of constituents are present for each analyte list as identified above (including detects where applicable).

BF Proper EPA SW-846 analytical methods were used for analysis.

5.0 DATA REPORTING

BF All analytical reporting associated with the event was performed by the contracted lab.

BF Trip, field and/or equipment, and laboratory blank results have all been reported. All detects for blanks are listed below by constituent. All laboratory method blanks, if any, have been 'flagged' with a 'B' where detected in other samples as appropriate and a laboratory narrative was provided. If the sample was flagged by the laboratory and is not within 5X of the concentration in the blank (or 10X for commonly detected laboratory contaminants-acetone, methylene chloride and phthalates), list below with explanation if flags should be removed. If flags need to be added for samples, also list below.

- ***Method Blank:***
  - ***Sulfate @ 1.5 mg/L (J)*** ****B-flag added for MW-10***

BF It is clear from the laboratory report that samples have or have not been diluted during analysis, and if the samples have been diluted, the result is reported as a multiple of the dilution (e.g., a sample diluted 10x resulting in an analytical detection of 1.0 should be reported as 10). Those that have been diluted are listed below with the dilution factor.

- ***MW-10***
  - ***Antimony x10***
  - ***Thallium x10***

BF The report provides the reporting limit for each constituent.

BF The results were reported at or below their proper reporting limits (i.e., MDLs with SWSLs reported). Those that are not reported correctly are listed below (by constituent) with the proper reporting limit listed beside them. State if the reporting limit error is due to dilutions.

BF No organic constituents were reported above their respective SWSLs, and no inorganic or organic constituents were reported above their respective NC 2L Drinking Water Standards/SWS GWPS in wells, or field/equipment/trip blanks, or above applicable surface water standards in surface water points.

- ***Beryllium*** ***(GWPS = 4 ug/L)***
  - ***MW-10 @ 5.56 ug/L***
- ***Chromium*** ***(NC 2L = 10 ug/L)***
  - ***MW-10 @ 12.6 ug/L***
- ***Cobalt*** ***(GWPS = 1 ug/L)***
  - ***MW-10 @ 15.3 ug/L***
  - ***MW-11 @ 1.56 ug/L (J)***
- ***Lead*** ***(NC 2L = 15 ug/L)***
  - ***MW-10 @ 37.6 ug/L***
- ***Vanadium*** ***(GWPS = 0.3 ug/L)***
  - ***MW-10 @ 75.0 ug/L***
  - ***MW-11 @ 1.86 ug/L (J)***
  - ***MW-12 @ 1.72 ug/L (J)***
  - ***MW-13 @ 3.22 ug/L (J)***
- ***Iron*** ***(NC2L = 300 ug/L)***
  - ***MW-10 @52700 ug/L***
  - ***MW-11 @ 5170 ug/L***
  - ***MW-12 @ 1270 ug/L***
  - ***MW-13 @ 1770 ug/L***
- ***Manganese*** ***(NC2L = 50 ug/L)***
  - ***MW-10 @ 1530 ug/L***
  - ***MW-11 @ 390 ug/L***
  - ***MW-12 @ 214 ug/L***
  - ***MW-13 @ 84.9 ug/L***
- ***Trichlorofluoromethane*** ***(SWSL = 1 ug/L)***
  - ***MW-13 @ 1.3 ug/L***
- ***Vinyl Chloride*** ***(NC2L = 0.03 ug/L)***
  - ***MW-11 @ 0.83 ug/L (J)***
  - ***MW-12 @ 0.79 ug/L (J)***
  - ***MW-13 @ 0.72 ug/L (J)***

BF No inorganic and organic constituents were detected in a well or surface water point at quantified concentrations outside of their historical range (more than 5X previous concentrations or first-time detections).

- ***MW-10***
  - ***Beryllium @ 5.56 (first-time detection)***
  - ***Chromium @ 12.6 (first-time detection)***
  - ***Cobalt @ 15.3 (first-time detection)***
- ***MW-13***
  - ***Mercury @ 0.246 ug/L (first-time detection)***

BF Other report issues/Communications with laboratory/etc.:

- The concentration of Mercury in MW-13 was confirmed by reprep and reanalysis. Only the original result is included in this report.

APPENDIX C

STATISTICAL EVALUATION WORKSHEETS & SUMMARY TABLE

Summary of Statistical Analysis for Samples from the MSW Landfill
Henderson County Landfill, Permit No. 45-01
Hendersonville, North Carolina

September 2013								
Detected Monitoring Constituent/ Analyte	Reporting Units	Groundwater Standard		Downgradient Monitoring Well	Constituent/ Analyte Concentration	Statistical Analysis		Statistical Determination
		NC 2L	GWPS			Interwell	Intrawell	
Barium	ug/L	700	--	MW-8	787	2634	--	Not SSI
Cobalt	ug/L	--	1	MW-6	43.8	3.55	270	Not SSI
				MW-7	18.7		19.0	Not SSI
Lead	ug/L	15	--	MW-6	17.4	75.9	--	Not SSI

Notes:
1. Statistical worksheets are provided as Appendix C.
2. ug/L = micrograms per liter
3. NC 2L = North Carolina 2L Groundwater Standard
4. GWPS = North Carolina Solid Waste Section Groundwater Protection Standard
5. SSI = statistically significant increase
6. North Carolina Appendix I Inorganic constituents detected above their respective Solid Waste Section Reporting Limit and Groundwater Standard in samples from downgradient monitoring wells were statistically evaluated.

Project Name: Henderson County Landfill
Project No: 0839-650613.100
Date: 11/6/13

Analyte: Barium

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	12/05/94	MW-5	134		100
2	02/14/95	MW-5	ND		100
3	04/03/95	MW-5	174		100
4	10/30/95	MW-5	348		100
5	04/08/96	MW-5	199		100
6	10/24/96	MW-5	300		100
7	04/15/97	MW-5	180		100
8	10/29/97	MW-5	200		100
9	05/14/98	MW-5	ND		100
10	10/11/98	MW-5	ND		100
11	06/04/99	MW-5	ND		100
12	10/29/99	MW-5	ND		100
13	04/20/00	MW-5	ND		100
14	11/07/00	MW-5	ND		100
15	05/15/01	MW-5	ND		100
16	10/16/01	MW-5	ND		100
17	04/24/02	MW-5	ND		100
18	10/01/02	MW-5	ND		100
19	04/09/03	MW-5	ND		100
20	10/20/03	MW-5	ND		100
21	03/24/04	MW-5	ND		100
22	10/27/04	MW-5	ND		100
23	05/25/05	MW-5	ND		100
24	10/04/05	MW-5	ND		100
25	04/25/06	MW-5	ND		100
26	10/04/06	MW-5	ND		100
27	03/21/07	MW-5	47.5	J	100
28	10/02/07	MW-5	135		100
29	04/03/08	MW-5	87.8	J	100
30	10/29/08	MW-5	69.9	J	100
31	03/24/09	MW-5	26.2	J	100
32	09/22/09	MW-5	31.5	J	100
33	03/22/10	MW-5	28.2	J	100
34	09/23/10	MW-5	34.3	J	100
35	03/16/11	MW-5	71.3	J	100
36	09/21/11	MW-5	40.2	J	100
37	03/21/12	MW-5	60.8	J	100
38	09/20/12	MW-5	28.9	J	100
39	03/20/13	MW-5	51.9	J	100
40	09/18/13	MW-5	57.7	J	100

Number of Data	40
Number of Truncated Data	19
Percentage of Truncated Data	48%

Upper Prediction Limit: **2634** ug/L

Project Name: Henderson County Landfill
Project No: 0839-650613.100
Date: 11/6/13

Probability Plots to determine the distribution of Barium

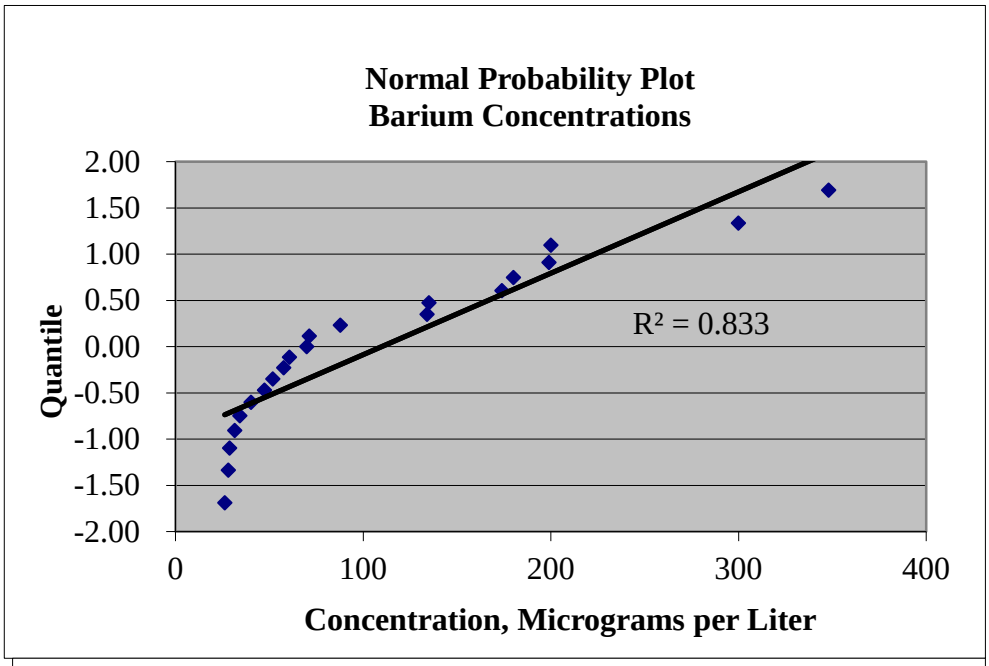
Complete the following table where:

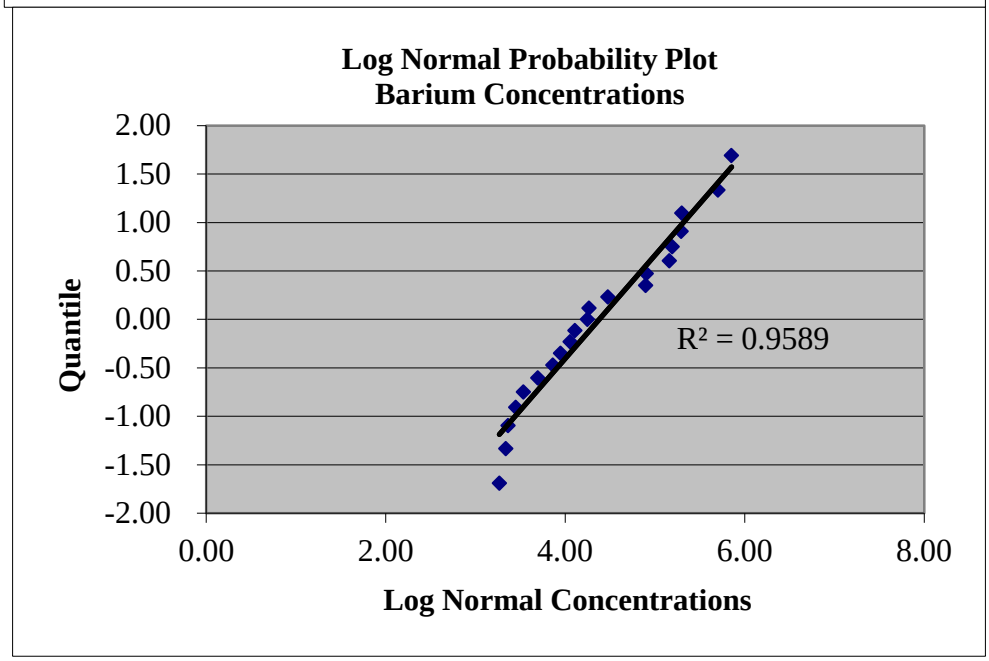
i = ordered value of sample, arranged from smallest to largest
X(i) = sample values arranged from smallest to largest
LN[X(i)] = Natural Log Value of sample concentrations arranged from smallest to largest
[i/(n+1)] = Cumulative probability
n = number of samples = 21

X(i)	LN[X(i)]	i	Rank	[Rank/(n+1)]	Quantiles
26.2	3.27	1	1	0.045	-1.69
28.2	3.34	2	2	0.091	-1.34
28.9	3.36	3	3	0.136	-1.10
31.5	3.45	4	4	0.182	-0.91
34.3	3.54	5	5	0.227	-0.75
40.2	3.69	6	6	0.273	-0.60
47.5	3.86	7	7	0.318	-0.47
51.9	3.95	8	8	0.364	-0.35
57.7	4.06	9	9	0.409	-0.23
60.8	4.11	10	10	0.455	-0.11
69.9	4.25	11	11	0.500	0.00
71.3	4.27	12	12	0.545	0.11
87.8	4.48	13	13	0.591	0.23
134	4.90	14	14	0.636	0.35
135	4.91	15	15	0.682	0.47
174	5.16	16	16	0.727	0.60
180	5.19	17	17	0.773	0.75
199	5.29	18	18	0.818	0.91
200	5.30	19	19	0.864	1.10
300	5.70	20	20	0.909	1.34
348	5.85	21	21	0.955	1.69

Project Name: Henderson County Landfill
Project No: 0839-650613.100
Date: 11/06/13

Probability Plots to determine the distribution of Barium





Project Name: Henderson County Landfill
Project No: 0839-650613.100
Date: 11/6/13

Determination of reported background value as an outlier

Analyte: Barium

Background Data

Sample No.	Sample Date	Location	Concentration (ug/l)		Quantitation Limit (ug/l)
1	12/05/94	MW-5	134		100
2	02/14/95	MW-5	ND		100
3	04/03/95	MW-5	174		100
4	10/30/95	MW-5	348		100
5	04/08/96	MW-5	199		100
6	10/24/96	MW-5	300		100
7	04/15/97	MW-5	180		100
8	10/29/97	MW-5	200		100
9	05/14/98	MW-5	ND		100
10	10/11/98	MW-5	ND		100
11	06/04/99	MW-5	ND		100
12	10/29/99	MW-5	ND		100
13	04/20/00	MW-5	ND		100
14	11/07/00	MW-5	ND		100
15	05/15/01	MW-5	ND		100
16	10/16/01	MW-5	ND		100
17	04/24/02	MW-5	ND		100
18	10/01/02	MW-5	ND		100
19	04/09/03	MW-5	ND		100
20	10/20/03	MW-5	ND		100
21	03/24/04	MW-5	ND		100
22	10/27/04	MW-5	ND		100
23	05/25/05	MW-5	ND		100
24	10/04/05	MW-5	ND		100
25	04/25/06	MW-5	ND		100
26	10/04/06	MW-5	ND		100
27	03/21/07	MW-5	47.5	J	100
28	10/02/07	MW-5	135		100
29	04/03/08	MW-5	87.8	J	100
30	10/29/08	MW-5	69.9	J	100
31	03/24/09	MW-5	26.2	J	100
32	09/22/09	MW-5	31.5	J	100
33	03/22/10	MW-5	28.2	J	100
34	09/23/10	MW-5	34.3	J	100
35	03/16/11	MW-5	71.3	J	100
36	09/21/11	MW-5	57.3	J	100
37	03/21/12	MW-5	60.8	J	100
38	09/20/12	MW-5	28.9	J	100
39	03/20/13	MW-5	51.9	J	100
40	09/18/13	MW-5	57.7	J	100
		mean =	111		
		STD =	92.2		

Note: All concentrations are micrograms per liter

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 =	348
	mean =	111
	STD =	92.2
	Tn =	**2.57**

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

Number of samples =	40
Tc =	**2.866**

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

Project Name: Henderson County Landfill
Project No: 0839-650613.100
Date: 11/6/13

Shapiro Wilk Test Statistic (W) for normality of total Barium

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	26.20	348.00	321.8	0.4643	149.41
2	28.20	300.00	271.8	0.3185	86.57
3	28.90	200.00	171.1	0.2578	44.11
4	31.50	199.00	167.5	0.2119	35.49
5	34.30	180.00	145.7	0.1736	25.29
6	40.20	174.00	133.8	0.1399	18.72
7	47.50	135.00	87.5	0.1092	9.56
8	51.90	134.00	82.1	0.0804	6.60
9	57.70	87.80	30.1	0.053	1.60
10	60.80	71.30	10.5	0.0263	0.28
11	69.90	69.90	0	0	0.00
12	71.30	60.80			
13	87.80	57.70			
14	134.00	51.90			
15	135.00	47.50			
16	174.00	40.20			
17	180.00	34.30			
18	199.00	31.50			
19	200.00	28.90			
20	300.00	28.20			
21	348.00	26.20			

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)	=	377.62
SD =	standard deviation of the data group	=	92.75
n =	number of samples	=	21

W = 0.829

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) = 0.908
and the calculated W = 0.829

Therefore the data is Non Normal

Project Name: Henderson County Landfill
Project No: 0839-650613.100
Date: 11/6/13

Shapiro Wilk Test Statistic (W) for log normality of Barium

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	3.27	5.85	2.5864	0.4643	1.2009
2	3.34	5.70	2.3645	0.3185	0.7531
3	3.36	5.30	1.9345	0.2578	0.4987
4	3.45	5.29	1.8433	0.2119	0.3906
5	3.54	5.19	1.6578	0.1736	0.2878
6	3.69	5.16	1.4652	0.1399	0.2050
7	3.86	4.91	1.0445	0.1092	0.1141
8	3.95	4.90	0.9485	0.0804	0.0763
9	4.06	4.48	0.4198	0.0530	0.0222
10	4.11	4.27	0.1593	0.0263	0.0042
11	4.25	4.25	0.0000	0.0000	0.0000
12	4.27	4.11			
13	4.48	4.06			
14	4.90	3.95			
15	4.91	3.86			
16	5.16	3.69			
17	5.19	3.54			
18	5.29	3.45			
19	5.30	3.36			
20	5.70	3.34			
21	5.85	3.27			

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)	=	3.5528
	SD =	standard deviation of the data group	=	0.8213
	n =	number of samples	=	21

W = 0.9357

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) = 0.908
and the calculated W = 0.936

Therefore the data set is Log Normal

Project Name: Henderson County Landfill
Project No: 0839-650613.100
Date: 11/6/13

Aitchison's Adjustment for Barium

Background Values (positive detects only)

Sample No.	Sample Date	Location	Concentration (ug/l)	ln(conc)
1	12/5/94	MW-5	134	4.90
2	2/14/95	MW-5	ND	ND
3	4/3/95	MW-5	174	5.16
4	10/30/95	MW-5	348	5.85
5	4/8/96	MW-5	199	5.29
6	10/24/96	MW-5	300	5.70
7	4/15/97	MW-5	180	5.19
8	10/29/97	MW-5	200	5.30
9	5/14/98	MW-5	ND	ND
10	10/11/98	MW-5	ND	ND
11	6/4/99	MW-5	ND	ND
12	10/29/99	MW-5	ND	ND
13	4/20/00	MW-5	ND	ND
14	11/7/00	MW-5	ND	ND
15	5/15/01	MW-5	ND	ND
16	10/16/01	MW-5	ND	ND
17	4/24/02	MW-5	ND	ND
18	10/1/02	MW-5	ND	ND
19	4/9/03	MW-5	ND	ND
20	10/20/03	MW-5	ND	ND
21	3/24/04	MW-5	ND	ND
22	10/27/04	MW-5	ND	ND
23	5/25/05	MW-5	ND	ND
24	10/4/05	MW-5	ND	ND
25	4/25/06	MW-5	ND	ND
26	10/4/06	MW-5	ND	ND
27	3/21/07	MW-5	47.5	3.86
28	10/2/07	MW-5	135	4.91
29	4/3/08	MW-5	87.8	4.48
30	10/29/08	MW-5	69.9	4.25
31	3/24/09	MW-5	26.2	3.27
32	9/22/09	MW-5	31.5	3.45
33	3/22/10	MW-5	28.2	3.34
34	9/23/10	MW-5	34.3	3.54
35	3/16/11	MW-5	71.3	4.27
36	9/21/11	MW-5	40.2	3.69
37	3/21/12	MW-5	25.2	3.23
38	9/20/12	MW-5	28.9	3.36
39	3/20/13	MW-5	51.9	3.95
40	9/18/13	MW-5	57.7	4.06

Mean of detected values = 4.33
Standard Deviation of detected values = 0.857

The adjusted mean can be found using

$$M(a) = (1-d/n) \times M$$

where:	d =	number non- detected values	=	19
	n =	total number samples	=	40
	M =	mean detected values	=	4.33
		M(a)	**=**	**2.28**

The adjusted standard deviation squared may be found using

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

where:	n =	total number samples	=	40
	d =	number non-detected values	=	19
	S =	std deviation of detected values squared	=	0.735
	MM =	mean of detected values squared	=	18.8
		STD(a)	=	5.18

and the adjusted standard deviation is then

S(a) = SQRT(STD(a)) = 2.28

Project Name: Henderson County Landfill
Project No: 0839-650613.100
Date: 11/6/13

Parametric Prediction Interval for Aitchison's adjusted data

Analyte: Barium

Background Data

Sample No.	Sample Date	Location	Concentration (ug/l)	Quantitation Limit (ug/l)	ln(Cocentration)
1	12/5/94	MW-5	134	100	4.90
2	2/14/95	MW-5	ND	100	ND
3	4/3/95	MW-5	174	100	5.16
4	10/30/95	MW-5	348	100	5.85
5	4/8/96	MW-5	199	100	5.29
6	10/24/96	MW-5	300	100	5.70
7	4/15/97	MW-5	180	100	5.19
8	10/29/97	MW-5	200	100	5.30
9	5/14/98	MW-5	ND	100	ND
10	10/11/98	MW-5	ND	100	ND
11	6/4/99	MW-5	ND	100	ND
12	10/29/99	MW-5	ND	100	ND
13	4/20/00	MW-5	ND	100	ND
14	11/7/00	MW-5	ND	100	ND
15	5/15/01	MW-5	ND	100	ND
16	10/16/01	MW-5	ND	100	ND
17	4/24/02	MW-5	ND	100	ND
18	10/1/02	MW-5	ND	100	ND
19	4/9/03	MW-5	ND	100	ND
20	10/20/03	MW-5	ND	100	ND
21	3/24/04	MW-5	ND	100	ND
22	10/27/04	MW-5	ND	100	ND
23	5/25/05	MW-5	ND	100	ND
24	10/4/05	MW-5	ND	100	ND
25	4/25/06	MW-5	ND	100	ND
26	10/4/06	MW-5	ND	100	ND
27	3/21/07	MW-5	47.5	100	3.86
28	10/2/07	MW-5	135	100	4.91
29	4/3/08	MW-5	87.8	100	4.48
30	10/29/08	MW-5	69.9	100	4.25
31	3/24/09	MW-5	26.2	100	3.27
32	9/22/09	MW-5	31.5	100	3.45
33	3/22/10	MW-5	28.2	100	3.34
34	9/23/10	MW-5	34.3	100	3.54
35	3/16/11	MW-5	71.3	100	4.27
36	9/21/11	MW-5	40.2	100	3.69
37	3/21/12	MW-5	60.8	100	4.11
38	9/20/12	MW-5	28.9	100	3.36
39	3/20/13	MW-5	51.9	100	3.95
40	9/18/13	MW-5	57.7	100	4.06

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 l(standard deviation) are

ln(adjusted mean)	=	2.28
ln(adjusted standard deviation)	=	2.28

Using the background data, the upper Prediction Limit can be determined using:

Upper Prediction Limit = (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 from table 1, 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 =	2.28
	Std Dev =	2.28
	t(n-1,k,.95)*sqrt(1/m+1/n) =	2.46
	k =	7
	m =	1
	n =	40

Antilog UPL = 2634 ug/L

Project Name: Henderson County Landfill
Project No: 0839-650613.100
Date: 11/6/13

Parametric Tolerance Interval for Aitchison's adjusted data

Analyte: Barium

Background Data

Sample No.	Sample Date	Location	Concentration (ug/l)	Quantitation Limit (ug/l)	ln(Concentration)
1	12/5/94	MW-5	134	100	4.90
2	2/14/95	MW-5	ND	100	ND
3	4/3/95	MW-5	174	100	5.16
4	10/30/95	MW-5	348	100	5.85
5	4/8/96	MW-5	199	100	5.29
6	10/24/96	MW-5	300	100	5.70
7	4/15/97	MW-5	180	100	5.19
8	10/29/97	MW-5	200	100	5.30
9	5/14/98	MW-5	ND	100	ND
10	10/11/98	MW-5	ND	100	ND
11	6/4/99	MW-5	ND	100	ND
12	10/29/99	MW-5	ND	100	ND
13	4/20/00	MW-5	ND	100	ND
14	11/7/00	MW-5	ND	100	ND
15	5/15/01	MW-5	ND	100	ND
16	10/16/01	MW-5	ND	100	ND
17	4/24/02	MW-5	ND	100	ND
18	10/1/02	MW-5	ND	100	ND
19	4/9/03	MW-5	ND	100	ND
20	10/20/03	MW-5	ND	100	ND
21	3/24/04	MW-5	ND	100	ND
22	10/27/04	MW-5	ND	100	ND
23	5/25/05	MW-5	ND	100	ND
24	10/4/05	MW-5	ND	100	ND
25	4/25/06	MW-5	ND	100	ND
26	10/4/06	MW-5	ND	100	ND
27	3/21/07	MW-5	47.5	100	3.86
28	10/2/07	MW-5	135	100	4.91
29	4/3/08	MW-5	87.8	100	4.48
30	10/29/08	MW-5	69.9	100	4.25
31	3/24/09	MW-5	26.2	100	3.27
32	9/22/09	MW-5	31.5	100	3.45
33	3/22/10	MW-5	28.2	100	3.34
34	9/23/10	MW-5	34.3	100	3.54
35	3/16/11	MW-5	71.3	100	4.27
36	9/21/11	MW-5	40.2	100	3.69
37	3/21/12	MW-5	60.8	100	4.11
38	9/20/12	MW-5	28.9	100	3.36
39	3/20/13	MW-5	51.9	100	3.95
40	9/18/13	MW-5	57.7	100	4.06

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) =	2.28
ln(adjusted standard deviation) =	2.28

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 = 2.125

n = 40

UTL = 1229 ug/L

Project Name: Henderson County Landfill
Project No: 0839-650613.100
Date: 11/6/13

Analyte: Cobalt

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	12/05/94	MW-5	ND		10
2	02/14/95	MW-5	ND		10
3	04/03/95	MW-5	ND		10
4	10/30/95	MW-5	ND		10
5	04/08/96	MW-5	ND		10
6	10/24/96	MW-5	ND		10
7	04/15/97	MW-5	2.0		10
8	10/29/97	MW-5	ND		10
9	05/14/98	MW-5	ND		10
10	10/11/98	MW-5	ND		10
11	06/04/99	MW-5	ND		10
12	10/29/99	MW-5	ND		10
13	04/20/00	MW-5	ND		10
14	11/07/00	MW-5	ND		10
15	05/15/01	MW-5	ND		10
16	10/16/01	MW-5	ND		10
17	04/24/02	MW-5	ND		10
18	10/01/02	MW-5	ND		10
19	04/09/03	MW-5	ND		10
20	10/20/03	MW-5	ND		10
21	03/24/04	MW-5	ND		10
22	10/27/04	MW-5	ND		10
23	05/25/05	MW-5	ND		10
24	10/04/05	MW-5	ND		10
25	04/25/06	MW-5	ND		10
26	10/04/06	MW-5	ND		10
27	03/21/07	MW-5	1.1	J	10
28	10/02/07	MW-5	ND		10
29	04/03/08	MW-5	ND		10
30	10/29/08	MW-5	3.6	J	10
31	03/24/09	MW-5	0.6	J	10
32	09/22/09	MW-5	ND		10
33	03/22/10	MW-5	ND		10
34	09/23/10	MW-5	ND		10
35	03/16/11	MW-5	ND		10
36	09/21/11	MW-5	ND		10
37	03/21/12	MW-5	ND		10
38	09/20/12	MW-5	ND		10
39	03/20/13	MW-5	1.3	J	10
40	09/18/13	MW-5	ND		10

Number of Data	40
Number of Truncated Data	35
Percentage of Truncated Data	88%

Nonparametric Prediction Interval: **3.55** ug/L

Project Name: Henderson County Landfill
Project No: 0839-650613.100
Date: 11/6/13

Analyte: Cobalt (MW-6 Intrawell)

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	12/5/94	MW-6	41		10
2	2/14/95	MW-6	48		10
3	4/3/95	MW-6	38		10
4	10/30/95	MW-6	34		10
5	4/8/96	MW-6	32		10
6	10/29/97	MW-6	19.0		10
7	5/14/98	MW-6	53.4		10
8	10/11/98	MW-6	ND		10
9	6/4/99	MW-6	52.3		10
10	10/29/99	MW-6	ND		10
11	4/20/00	MW-6	ND		10
12	11/7/00	MW-6	ND		10
13	5/15/01	MW-6	14.0		10
14	10/16/01	MW-6	ND		10
15	4/24/02	MW-6	17.9		10
16	10/1/02	MW-6	11.4		10
17	4/9/03	MW-6	13.1		10
18	10/20/03	MW-6	32.1		10
19	3/24/04	MW-6	94.9		10
20	10/27/04	MW-6	120		10
21	5/25/05	MW-6	35.5		10
22	10/4/05	MW-6	23.5		10
23	4/25/06	MW-6	18.8		10
24	10/4/06	MW-6	15.4		10
25	3/21/07	MW-6	11.3		10
26	10/2/07	MW-6	ND		10
27	4/3/08	MW-6	12.4		10
28	10/29/08	MW-6	35.9		10
29	3/24/09	MW-6	3.1	J	10
30	9/22/09	MW-6	4.8	J	10
31	9/23/10	MW-6	2.1	J	10
32	3/16/11	MW-6	ND		10
33	9/21/11	MW-6	3.7	J	10
34	3/21/12	MW-6	3.5	J	10
35	9/20/12	MW-6	ND		10
36	3/20/13	MW-6	ND		10

Number of Data	36
Number of Truncated Data	9
Percentage of Truncated Data	25%

Upper Tolerance Interval: **270** ug/L

Project Name: Henderson County Landfill
Project No: 0839-650613.100
Date: 11/6/13

Probability Plots to determine the distribution of Cobalt (MW-6 Intrawell)

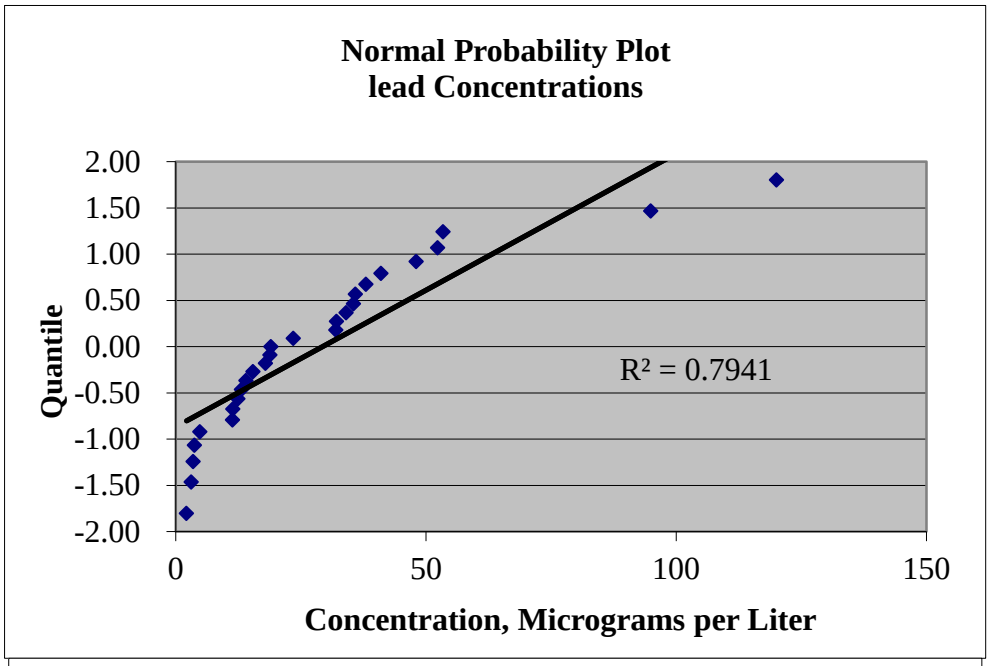
Complete the following table where:

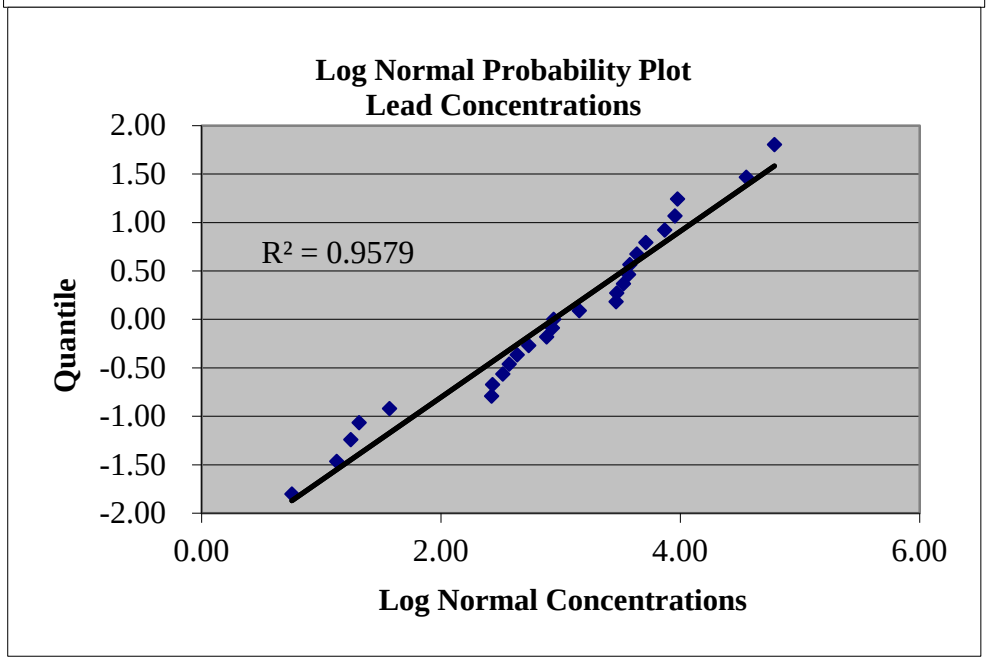
i = ordered value of sample, arranged from smallest to largest
X(i) = sample values arranged from smallest to largest
LN[X(i)] = Natural Log Value of sample concentrations arranged from smallest to largest
[i/(n+1)] = Cumulative probability
n = number of samples = 27

X(i)	LN[X(i)]	i	Rank	[Rank/(n+1)]	Quantiles
2.13	0.76	1	1	0.036	-1.80
3.1	1.13	2	2	0.071	-1.47
3.48	1.25	3	3	0.107	-1.24
3.73	1.32	4	4	0.143	-1.07
4.81	1.57	5	5	0.179	-0.92
11.3	2.42	6	6	0.214	-0.79
11.4	2.43	7	7	0.250	-0.67
12.4	2.52	8	8	0.286	-0.57
13.1	2.57	9	9	0.321	-0.46
14	2.64	10	10	0.357	-0.37
15.4	2.73	11	11	0.393	-0.27
17.9	2.88	12	12	0.429	-0.18
18.8	2.93	13	13	0.464	-0.09
19	2.94	14	14	0.500	0.00
23.5	3.16	15	15	0.536	0.09
32	3.47	16	16	0.571	0.18
32.1	3.47	17	17	0.607	0.27
34	3.53	18	18	0.643	0.37
35.5	3.57	19	19	0.679	0.46
35.9	3.58	20	20	0.714	0.57
38	3.64	21	21	0.750	0.67
41	3.71	22	22	0.786	0.79
48	3.87	23	23	0.821	0.92
52.3	3.96	24	24	0.857	1.07
53.4	3.98	25	25	0.893	1.24
94.9	4.55	26	26	0.929	1.47
120	4.79	27	27	0.964	1.80

Project Name: Henderson County Landfill
Project No: 0839-650613.100
Date: 11/06/13

Probability Plots to determine the distribution of Cobalt (MW-6 Intrawell)





Project Name: Henderson County Landfill
Project No: 0839-650613.100
Date: 11/6/13

Determination of reported background value as an outlier

Analyte: Cobalt (MW-6 Intrawell)

Background Data

Sample No.	Sample Date	Location	Concentration (ug/l)		Quantitation Limit (ug/l)
1	12/05/94	MW-6	41		10
2	02/14/95	MW-6	48		10
3	04/03/95	MW-6	38		10
4	10/30/95	MW-6	34		10
5	04/08/96	MW-6	32		10
6	10/29/97	MW-6	19		10
7	05/14/98	MW-6	53.4		10
8	10/11/98	MW-6	ND		10
9	06/04/99	MW-6	52.3		10
10	10/29/99	MW-6	ND		10
11	04/20/00	MW-6	ND		10
12	11/07/00	MW-6	ND		10
13	05/15/01	MW-6	14		10
14	10/16/01	MW-6	ND		10
15	04/24/02	MW-6	17.9		10
16	10/01/02	MW-6	11.4		10
17	04/09/03	MW-6	13.1		10
18	10/20/03	MW-6	32.1		10
19	03/24/04	MW-6	94.9		10
20	10/27/04	MW-6	120		10
21	05/25/05	MW-6	35.5		10
22	10/04/05	MW-6	23.5		10
23	04/25/06	MW-6	18.8		10
24	10/04/06	MW-6	15.4		10
25	03/21/07	MW-6	11.3		10
26	10/02/07	MW-6	ND		10
27	04/03/08	MW-6	12.4		10
28	10/29/08	MW-6	35.9		10
29	03/24/09	MW-6	3.1	J	10
30	09/22/09	MW-6	4.81	J	10
31	09/23/10	MW-6	2.13	J	10
32	03/16/11	MW-6	ND		10
33	09/21/11	MW-6	3.73	J	10
34	03/21/12	MW-6	3.48	J	10
35	09/20/12	MW-6	ND		10
36	03/20/13	MW-6	ND		10

mean = 29.302
STD = 27.502

Note: All concentrations are micrograms per liter

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 =	120.000
	mean =	29.302
	STD =	27.502
	Tn =	**3.298**

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

Number of samples =	36
Tc =	**2.823**

Since Tc<Tn, the sample result is considered to be an outlier

Project Name: Henderson County Landfill
Project No: 0839-650613.100
Date: 11/6/13

Determination of reported background value as an outlier

Analyte: Cobalt (MW-6 Intrawell)

Background Data

Sample No.	Sample Date	Location	ln(Concentration) (ug/l)		Quantitation Limit (ug/l)
1	12/05/94	MW-6	41		10
2	02/14/95	MW-6	48		10
3	04/03/95	MW-6	38		10
4	10/30/95	MW-6	34		10
5	04/08/96	MW-6	32		10
6	10/29/97	MW-6	19		10
7	05/14/98	MW-6	53.4		10
8	10/11/98	MW-6	ND		10
9	06/04/99	MW-6	52.3		10
10	10/29/99	MW-6	ND		10
11	04/20/00	MW-6	ND		10
12	11/07/00	MW-6	ND		10
13	05/15/01	MW-6	14		10
14	10/16/01	MW-6	ND		10
15	04/24/02	MW-6	17.9		10
16	10/01/02	MW-6	11.4		10
17	04/09/03	MW-6	13.1		10
18	10/20/03	MW-6	32.1		10
19	03/24/04	MW-6	94.9		10
20	10/27/04	MW-6	120		10
21	05/25/05	MW-6	35.5		10
22	10/04/05	MW-6	23.5		10
23	04/25/06	MW-6	18.8		10
24	10/04/06	MW-6	15.4		10
25	03/21/07	MW-6	11.3		10
26	10/02/07	MW-6	ND		10
27	04/03/08	MW-6	12.4		10
28	10/29/08	MW-6	35.9		10
29	03/24/09	MW-6	3.1	J	10
30	09/22/09	MW-6	4.81	J	10
31	09/23/10	MW-6	2.13	J	10
32	03/16/11	MW-6	ND		10
33	09/21/11	MW-6	3.73	J	10
34	03/21/12	MW-6	3.48	J	10
35	09/20/12	MW-6	ND		10
36	03/20/13	MW-6	ND		10

mean = 29.302
STD = 27.502

Note: All concentrations are micrograms per liter

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 =	120.000
	mean =	29.302
	STD =	27.502
	Tn =	**3.298**

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

Number of samples =	36
Tc =	2.823

Since Tc<Tn, the sample result is considered to be an outlier

Project Name: Henderson County Landfill
Project No: 0839-650613.100
Date: 11/6/13

Shapiro Wilk Test Statistic (W) for normality of total Cobalt (MW-6 Intrawell)

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	2.13	120.00	117.87	0.4366	51.46
2	3.10	94.90	91.8	0.3018	27.71
3	3.48	53.40	49.92	0.2522	12.59
4	3.73	52.30	48.57	0.2152	10.45
5	4.81	48.00	43.19	0.1848	7.98
6	11.30	41.00	29.7	0.1584	4.70
7	11.40	38.00	26.6	0.1346	3.58
8	12.40	35.90	23.5	0.1128	2.65
9	13.10	35.50	22.4	0.0923	2.07
10	14.00	34.00	20	0.0728	1.46
11	15.40	32.10	16.7	0.054	0.90
12	17.90	32.00	14.1	0.0358	0.50
13	18.80	23.50	4.7	0.0178	0.08
14	19.00	19.00	0	0	0.00
15	23.50	18.80			
16	32.00	17.90			
17	32.10	15.40			
18	34.00	14.00			
19	35.50	13.10			
20	35.90	12.40			
21	38.00	11.40			
22	41.00	11.30			
23	48.00	4.81			
24	52.30	3.73			
25	53.40	3.48			
26	94.90	3.10			
27	120.00	2.13			

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)	=	126.14
SD =	standard deviation of the data group	=	27.50
n =	number of samples	=	27

W = 0.809

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 = 0.809

Therefore the data is Non Normal

Project Name: Henderson County Landfill
Project No: 0839-650613.100
Date: 11/6/13

Shapiro Wilk Test Statistic (W) for log normality of Cobalt (MW-6 Intrawell)

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	0.76	4.79	4.0314	0.4366	1.7601
2	1.13	4.55	3.4214	0.3018	1.0326
3	1.25	3.98	2.7308	0.2522	0.6887
4	1.32	3.96	2.6406	0.2152	0.5683
5	1.57	3.87	2.3005	0.1848	0.4251
6	2.42	3.71	1.2888	0.1584	0.2041
7	2.43	3.64	1.2040	0.1346	0.1621
8	2.52	3.58	1.0630	0.1128	0.1199
9	2.57	3.57	0.9969	0.0923	0.0920
10	2.64	3.53	0.8873	0.0728	0.0646
11	2.73	3.47	0.7345	0.0540	0.0397
12	2.88	3.47	0.5809	0.0358	0.0208
13	2.93	3.16	0.2231	0.0178	0.0040
14	2.94	2.94	0.0000	0.0000	0.0000
15	3.16	2.93			
16	3.47	2.88			
17	3.47	2.73			
18	3.53	2.64			
19	3.57	2.57			
20	3.58	2.52			
21	3.64	2.43			
22	3.71	2.42			
23	3.87	1.57			
24	3.96	1.32			
25	3.98	1.25			
26	4.55	1.13			
27	4.79	0.76			

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)	=	5.1819
SD =	standard deviation of the data group	=	1.0418
n =	number of samples	=	27

W = 0.9515

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 = 0.952

Therefore the data set is Log Normal

Project Name: Henderson County Landfill
Project No: 0839-650613.100
Date: 11/6/13

Aitchison's Adjustment for Cobalt (MW-6 Intrawell)

Background Values (positive detects only)

Sample No.	Sample Date	Location	Concentration (ug/l)	ln(conc)
1	12/5/94	MW-6	41	3.71357207
2	2/14/95	MW-6	48	3.87120101
3	4/3/95	MW-6	38	3.63758616
4	10/30/95	MW-6	34	3.52636052
5	4/8/96	MW-6	32	3.4657359
6	10/29/97	MW-6	19	2.94443898
7	5/14/98	MW-6	53.4	3.97781075
8	10/11/98	MW-6	ND	ND
9	6/4/99	MW-6	52.3	3.95699637
10	10/29/99	MW-6	ND	ND
11	4/20/00	MW-6	ND	ND
12	11/7/00	MW-6	ND	ND
13	5/15/01	MW-6	14	2.63905733
14	10/16/01	MW-6	ND	ND
15	4/24/02	MW-6	17.9	2.88480071
16	10/1/02	MW-6	11.4	2.43361336
17	4/9/03	MW-6	13.1	2.57261223
18	10/20/03	MW-6	32.1	3.46885603
19	3/24/04	MW-6	94.9	4.55282371
20	10/27/04	MW-6	120	4.78749174
21	5/25/05	MW-6	35.5	3.5695327
22	10/4/05	MW-6	23.5	3.15700042
23	4/25/06	MW-6	18.8	2.93385687
24	10/4/06	MW-6	15.4	2.73436751
25	3/21/07	MW-6	11.3	2.42480273
26	10/2/07	MW-6	ND	ND
27	4/3/08	MW-6	12.4	2.51769647
28	10/29/08	MW-6	35.9	3.5807373
29	3/24/09	MW-6	3.1	1.13140211
30	9/22/09	MW-6	4.81	1.57069708
31	9/23/10	MW-6	2.13	0.75612198
32	3/16/11	MW-6	ND	ND
33	9/21/11	MW-6	3.73	1.31640823
34	3/21/12	MW-6	3.48	1.24703229
35	9/20/12	MW-6	ND	ND
36	3/20/13	MW-6	ND	ND

Mean of detected values = 2.94
Standard Deviation of detected values = 1.04

The adjusted mean can be found using

$$M(a) = (1-d/n) \times M$$

where:	d =	number non- detected values	=	9
	n =	total number samples	=	36
	M =	mean detected values	=	2.94
		M(a)	**=**	**2.20**

The adjusted standard deviation squared may be found using

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

where:	n =	total number samples	=	36
	d =	number non-detected values	=	9
	S =	std deviation of detected values squared	=	1.09
	MM =	mean of detected values squared	=	8.64
		STD(a)	=	2.47

and the adjusted standard deviation is then

S(a) = SQRT(STD(a)) = 1.57

Project Name: Henderson County Landfill
Project No: 0839-650613.100
Date: 11/6/13

Parametric Prediction Interval for Aitchison's adjusted data

Analyte: Cobalt (MW-6 Intrawell)

Background Data

Sample No.	Sample Date	Location	Concentration (ug/l)	Quantitation Limit (ug/l)	ln(Cocentration)
1	12/5/94	MW-6	41	10	3.71357
2	2/14/95	MW-6	48	10	3.87120
3	4/3/95	MW-6	38	10	3.63759
4	10/30/95	MW-6	34	10	3.52636
5	4/8/96	MW-6	32	10	3.46574
6	10/29/97	MW-6	19	10	2.94444
7	5/14/98	MW-6	53.4	10	3.97781
8	10/11/98	MW-6	ND	10	ND
9	6/4/99	MW-6	52.3	10	3.95700
10	10/29/99	MW-6	ND	10	ND
11	4/20/00	MW-6	ND	10	ND
12	11/7/00	MW-6	ND	10	ND
13	5/15/01	MW-6	14	10	2.63906
14	10/16/01	MW-6	ND	10	ND
15	4/24/02	MW-6	17.9	10	2.88480
16	10/1/02	MW-6	11.4	10	2.43361
17	4/9/03	MW-6	13.1	10	2.57261
18	10/20/03	MW-6	32.1	10	3.46886
19	3/24/04	MW-6	94.9	10	4.55282
20	10/27/04	MW-6	120	10	4.78749
21	5/25/05	MW-6	35.5	10	3.56953
22	10/4/05	MW-6	23.5	10	3.15700
23	4/25/06	MW-6	18.8	10	2.93386
24	10/4/06	MW-6	15.4	10	2.73437
25	3/21/07	MW-6	11.3	10	2.42480
26	10/2/07	MW-6	ND	10	ND
27	4/3/08	MW-6	12.4	10	2.51770
28	10/29/08	MW-6	35.9	10	3.58074
29	3/24/09	MW-6	3.1	10	1.13140
30	9/22/09	MW-6	4.81	10	1.57070
31	9/23/10	MW-6	2.13	10	0.75612
32	3/16/11	MW-6	ND	10	ND
33	9/21/11	MW-6	3.73	10	1.31641
34	3/21/12	MW-6	3.48	10	1.24703
35	9/20/12	MW-6	ND	10	ND
36	3/20/13	MW-6	ND	10	ND

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 l(standard deviation) are

ln(adjusted mean)	=	2.20
ln(adjusted standard deviation)	=	1.57

Using the background data, the upper Prediction Limit can be determined using:

Upper Prediction Limit = (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 from table 1, 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 =	2.205	
	Std Dev =	1.573	
	t(n-1,k,.95)*sqrt(1/m+1/n) =	1.710	
	k =	1	
	m =	1	
	n =	36	
	Antilog UPL =	**133**	ug/L

Project Name: Henderson County Landfill
Project No: 0839-650613.100
Date: 11/6/13

Parametric Tolerance Interval for Aitchison's adjusted data

Analyte: Cobalt (MW-6 Intrawell)

Background Data

Sample No.	Sample Date	Location	Concentration (ug/l)	Quantitation Limit (ug/l)	ln(Concentration)
1	12/5/94	MW-6	41	10.00	3.7136
2	2/14/95	MW-6	48	10.00	3.8712
3	4/3/95	MW-6	38	10.00	3.6376
4	10/30/95	MW-6	34	10.00	3.5264
5	4/8/96	MW-6	32	10.00	3.4657
6	10/29/97	MW-6	19	10.00	2.9444
7	5/14/98	MW-6	53.4	10.00	3.9778
8	10/11/98	MW-6	ND	10.00	ND
9	6/4/99	MW-6	52.3	10.00	3.9570
10	10/29/99	MW-6	ND	10.00	ND
11	4/20/00	MW-6	ND	10.00	ND
12	11/7/00	MW-6	ND	10.00	ND
13	5/15/01	MW-6	14	10.00	2.6391
14	10/16/01	MW-6	ND	10.00	ND
15	4/24/02	MW-6	17.9	10.00	2.8848
16	10/1/02	MW-6	11.4	10.00	2.4336
17	4/9/03	MW-6	13.1	10.00	2.5726
18	10/20/03	MW-6	32.1	10.00	3.4689
19	3/24/04	MW-6	94.9	10.00	4.5528
20	10/27/04	MW-6	120	10.00	4.7875
21	5/25/05	MW-6	35.5	10.00	3.5695
22	10/4/05	MW-6	23.5	10.00	3.1570
23	4/25/06	MW-6	18.8	10.00	2.9339
24	10/4/06	MW-6	15.4	10.00	2.7344
25	3/21/07	MW-6	11.3	10.00	2.4248
26	10/2/07	MW-6	ND	10.00	ND
27	4/3/08	MW-6	12.4	10.00	2.5177
28	10/29/08	MW-6	35.9	10.00	3.5807
29	3/24/09	MW-6	3.1	10.00	1.1314
30	9/22/09	MW-6	4.81	10.00	1.5707
31	9/23/10	MW-6	2.13	10.00	0.7561
32	3/16/11	MW-6	ND	10.00	ND
33	9/21/11	MW-6	3.73	10.00	1.3164
34	3/21/12	MW-6	3.48	10.00	1.2470
35	9/20/12	MW-6	ND	10.00	ND
36	3/20/13	MW-6	ND	10.00	ND

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) =	2.20
ln(adjusted standard deviation) =	1.57

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 = 2.158

n = 36

UTL = 270 ug/L

Project Name: Henderson County Landfill
Project No: 0839-650613.100
Date: 11/6/13

Analyte: Cobalt (MW-7 Intrawell)

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	12/05/94	MW-7	ND		10
2	02/14/95	MW-7	ND		10
3	04/03/95	MW-7	ND		10
4	10/30/95	MW-7	ND		10
5	04/08/96	MW-7	ND		10
6	10/24/96	MW-7	ND		10
7	04/15/97	MW-7	19.0		10
8	10/29/97	MW-7	7.0		10
9	05/14/98	MW-7	17.3		10
10	10/11/98	MW-7	ND		10
11	06/04/99	MW-7	11.5		10
12	10/29/99	MW-7	ND		10
13	04/20/00	MW-7	12.5		10
14	11/07/00	MW-7	ND		10
15	05/15/01	MW-7	ND		10
16	10/16/01	MW-7	ND		10
17	04/24/02	MW-7	ND		10
18	10/01/02	MW-7	ND		10
19	04/09/03	MW-7	ND		10
20	10/20/03	MW-7	ND		10
21	03/24/04	MW-7	16.0		10
22	10/27/04	MW-7	18.5		10
23	05/25/05	MW-7	16.8		10
24	10/04/05	MW-7	16.2		10
25	04/25/06	MW-7	13.9		10
26	10/04/06	MW-7	13.4		10
27	03/21/07	MW-7	12.6		10
28	10/02/07	MW-7	ND		10
29	04/03/08	MW-7	ND		10
30	10/29/08	MW-7	5.2	J	10
31	03/24/09	MW-7	ND		10
32	09/22/09	MW-7	ND		10
33	03/22/10	MW-7	ND		10
34	09/23/10	MW-7	ND		10
35	03/16/11	MW-7	ND		10
36	09/21/11	MW-7	ND		10
37	03/21/12	MW-7	ND		10
38	09/20/12	MW-7	ND		10
39	03/20/13	MW-7	ND		10

Number of Data	39
Number of Truncated Data	26
Percentage of Truncated Data	67%

Nonparametric Prediction Interval: **19.0** ug/L

Project Name: Henderson County Landfill
Project No: 0839-650613.100
Date: 11/6/13

Analyte: Lead

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	12/05/94	MW-5	ND		10
2	02/14/95	MW-5	ND		10
3	04/03/95	MW-5	ND		10
4	10/30/95	MW-5	7		10
5	04/08/96	MW-5	ND		10
6	10/24/96	MW-5	8.0		10
7	04/15/97	MW-5	13.0		10
8	10/29/97	MW-5	9.0		10
9	05/14/98	MW-5	ND		10
10	10/11/98	MW-5	ND		10
11	06/04/99	MW-5	ND		10
12	10/29/99	MW-5	ND		10
13	04/20/00	MW-5	ND		10
14	11/07/00	MW-5	ND		10
15	05/15/01	MW-5	ND		10
16	10/16/01	MW-5	ND		10
17	04/24/02	MW-5	24.0		10
18	10/01/02	MW-5	ND		10
19	04/09/03	MW-5	ND		10
20	10/20/03	MW-5	ND		10
21	03/24/04	MW-5	ND		10
22	10/27/04	MW-5	ND		10
23	05/25/05	MW-5	ND		10
24	10/04/05	MW-5	ND		10
25	04/25/06	MW-5	ND		10
26	10/04/06	MW-5	ND		10
27	03/21/07	MW-5	ND		10
28	10/02/07	MW-5	69.2	J	10
29	04/03/08	MW-5	75.8	J	10
30	10/29/08	MW-5	75.9	J	10
31	03/24/09	MW-5	3.3	J	10
32	09/22/09	MW-5	3.5	J	10
33	03/22/10	MW-5	ND		10
34	09/23/10	MW-5	ND		10
35	03/16/11	MW-5	4.9	J	10
36	09/21/11	MW-5	ND		10
37	03/21/12	MW-5	4.4	J	10
38	03/20/13	MW-5	ND		10
39	09/18/13	MW-5	ND		10

Number of Data	39
Number of Truncated Data	27
Percentage of Truncated Data	69%

Nonparametric Prediction Interval: **75.9** ug/L

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