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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	191 Transfer Station Drive Hendersonville, NC 28791	45-01	.1600/.0500	September 17-18, 2014

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

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

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

Signature | 12-10-14 Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1063 GEOLOGIST DAVID YATES REEDY III 12-10-14

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

SECOND SEMI-ANNUAL 2014 SAMPLING EVENT

Closed Henderson County Landfill, Permit No. 45-01

Henderson County, North Carolina

Submitted To:

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 2014 **0839-650614.101**

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December 10, 2014 0839-650614.101

Ms. Jackie Drummond
Department of Environment and Natural Resources
Division of Waste Management - Solid Waste Section
2090 US Highway 70
Swannanoa, NC 28778
828-296-4706

RE: WATER QUALITY MONITORING REPORT, SECOND SEMI-ANNUAL 2014 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 17-18, 2014, 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 2014 event, three NC Appendix I inorganic constituents (barium, cadmium, and mercury) 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, cadmium, and mercury were statistically evaluated in accordance with the procedures outlined in 15A NCAC 13B.1632(g) and (h). The concentrations of barium and cadmium were determined to be below the statistically calculated background concentrations and no further action is warranted. Mercury was determined to be above the statistically calculated background concentration. The concentration of mercury in the sample from assessment well AMW-2S will be verified during the next semi-annual water quality monitoring event.

At the closed MSW facility, three NC Appendix I volatile organic compounds (VOCs) (benzene; 1,4-dichlorobenzene; and vinyl chloride) were reported at concentrations above their respective SWSLs and NC 2L Standards in samples from downgradient monitoring wells during the September 2014 event. The detected VOC constituents and concentrations are generally consistent with reported historical concentrations for the closed MSW landfill.

At the closed C&D facility, no NC Appendix I inorganic constituents were reported at concentrations that exceeded their respective SWSLs and applicable groundwater protection standards in samples from the closed C&D facility. The concentrations of indicator parameters iron and manganese in samples from one or more of the C&D monitoring wells exceeded their respective SWSLs and NC 2L Standards as they have during previous events. 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 a concentration above the SWSL and NC 2L Standard in samples from one or more downgradient wells during the September 2014 event. No NC Appendix I constituents were detected at concentrations that exceeded applicable standards in surface water monitoring points during the September 2014 sampling event.

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Golder Associates: Operations in Africa, Asia, Australasia, Europe, North America and South America

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 2015. 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 Hydrogeologist

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

C: Marcus Jones, P.E., Director of Engineering, Henderson County, 1 Historic Courthouse Square, Suite 6, Hendersonville, NC 28792. 828-694-6560. majones@hendersoncountync.org (electronic copy)

Natalie Berry, P.E., Assistant County Engineer, Henderson County Landfill, 100 North King Street, Hendersonville, NC 28792. 828-694-6523. nberry@hendersoncountync.org

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1.0 INTRODUCTION

This report summarizes the monitoring results from the September 17-18, 2014, 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 2014 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 2014 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 0.262 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 228 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 2014 sampling event are discussed in the following sections.

2.1 Visual Inspection Program

In order to detect a potential release 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 2014 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. Available groundwater monitoring well construction information is summarized in Table 3. 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-5, MW-6, MW-7, MW-8, AMW-1S, and AMW-2S are screened in the shallow, unconfined aquifer. Monitoring wells 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). Downgradient monitoring wells MW-10, MW-11, and MW-12 are screened in the shallow, unconfined aquifer. Monitoring well MW-13 is screened in fractured bedrock. The four wells are screened 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 2014 Groundwater and Surface Water Monitoring Event

Personnel from Golder visited the facility on September 17-18, 2014, 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). Surface water monitoring point TSW-1 had no discernable flow during the event and no sample was collected. 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 2014 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 2014 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 19, 2014, 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 bis(2-ethylhexyl)phthalate, naphthalene, 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 2014 Sampling Results for the Closed MSW Landfill

Analytical results for the September 2014 groundwater samples at the closed MSW landfill are summarized in Table 4 with available historical data and the field parameters are summarized in Table 5. 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, beryllium, cadmium, 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 2014 monitoring event. Additionally, mercury was detected in the sample from AMW-2S at a concentration above the SWSL. Six NC Appendix I VOCs (benzene; chlorobenzene; 1,4-dichlorobenzene; cis-1,2-dichloroethene; toluene; and vinyl chloride) were detected above their respective SWSLs in one or more downgradient monitoring wells at the closed MSW landfill during the September 2014 event.

As presented in Table 6, one NC Appendix I inorganic constituent (barium) was detected above its SWSL in one or more surface water points during the September 2014 event. No NC Appendix I VOCs were detected above SWSLs in surface water monitoring points during the sampling event. Field parameters are summarized in Table 7.

2.6 September 2014 Sampling Results for the Closed C&D Landfill

Analytical results for the September 2014 groundwater samples at the closed C&D landfill are summarized in Table 8 with available historical data and field parameters are summarized in Table 9. The laboratory certificates-of-analysis, chain-of-custody form, and laboratory data reviews for the sampling event are included in Appendix B.

One NC Appendix I inorganic constituent (zinc) was reported to be present in samples from one or more downgradient monitoring wells at concentrations above the SWSL during this event. The indicator parameter iron was reported at concentrations above the SWSL in samples collected from the upgradient well and two of the three downgradient monitoring wells. Indicator parameter manganese was reported at concentrations above the SWSL in samples collected from all of the downgradient monitoring wells.

Three NC Appendix I VOCs (toluene, trichlorofluoromethane, and vinyl chloride) were detected in samples from downgradient wells above their respective SWSLs during the September 2014 event at the closed C&D landfill.

3.0 LABORATORY AND FIELD QA/QC

A field blank was collected by Golder personnel as part of the September 2014 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 2014 sampling event to and from the laboratory. ENCO analyzed the field blank for the NC Appendix I list of parameters plus bis(2-ethylhexyl)phthalate, naphthalene, 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). Barium was reported to be present in the field blank at an estimated concentration. Based on Golder's review of the laboratory data, concentrations of barium are blank-qualified in samples from MW-10, AMW-2S, and AMW-2D.

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, two NC Appendix I inorganic constituents were detected at quantifiable concentrations that exceeded their respective SWSLs and 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 2014 monitoring event. Barium was reported in the sample collected from MW-8 and cadmium was reported in the sample from AMW-1S at concentrations that exceeded their respective SWSLs and NC 2L Standards. Cobalt, thallium, and vanadium were 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. Additionally, mercury was detected in the sample from AMW-2S at a concentration that exceeded its SWSL and NC 2L Standard during the September 2014 event. This was the first event that mercury was detected in a sample from AMW-2S at a concentration that exceeded the NC 2L Standard and will be verified during the next routine sampling event.

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 2014 event. Benzene was reported in the samples from MW-6, MW-7, and AMW-1D; 1,4-dichlorobenzene was reported in the samples from MW-6 and MW-7; and vinyl chloride was reported in the sample from MW-7 at concentrations above their respective SWSL and NC 2L Standards. Vinyl chloride was detected in sample from AMW-1D at an estimated concentration 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 in Table 5, no NC Appendix I constituents were detected in surface water samples at concentrations above applicable surface water standards during the September 2014 event.

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

As presented in Table 4, No NC Appendix I inorganic constituents were reported in samples collected from one or more downgradient monitoring wells at concentrations that exceeded their SWSL and applicable groundwater standard at the C&D landfill during the September 2014 event. Cobalt was reported in the sample collected from downgradient well MW-11 at an estimated concentration below the SWSL, but above the GPS during the event. The constituent has been detected at similar concentrations in samples from the well during previous events. The indicator parameter iron was reported at concentrations above the SWSL and NC 2L Standard in samples collected from the upgradient well and two of the three downgradient monitoring wells. The indicator parameter manganese was reported at concentrations above the SWSL and NC 2L Standard in samples collected from all of the downgradient monitoring wells. 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 in Table 4, one NC Appendix I VOC (vinyl chloride) was reported at a concentration that exceeded the SWSL and NC 2L Standard in the sample from MW-13 during the September 2014 event at the closed C&D landfill. Tetrachloroethene and vinyl chloride were reported at estimated concentrations below their respective SWSLs, but above their NC 2L Standards in samples from one or more downgradient monitoring wells during the event. 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 inorganic constituents (barium, cadmium, and mercury) 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 2014 event. The concentrations of barium in the sample collected from MW-8, cadmium in the sample from AMW-1S, and mercury in the sample from AMW-2S 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, and cadmium were determined to be below the statistically calculated background concentrations during this event, and therefore; no further action is required. The concentration of mercury was determined to be above the statistically calculated background concentration during this event. The concentration of mercury in the sample from AMW-2S will be verified during the next semi-annual water quality monitoring event.

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 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.

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 2015.

6.0 REFERENCES

Butler, J.R., and D.T. Secor, Jr., 1991. The Central Piedmont (Chapter 4) in J.W. Horton, Jr. and V.A. Zullo, eds., *The Geology of the Carolinas* (Carolina Geological Society Fiftieth Anniversary Volume): The University of Tennessee Press, pp. 2, 4, 24, 36, 44-45.

Camp Dresser & McKee, December 2008. *October 2008 Semi-Annual Sampling Report, Stoney Mountain Road Sanitary Landfill*.

Camp Dresser & McKee, June 3, 2008. *Henderson County Closed Stoney Mountain Road Sanitary Landfill Additional Groundwater Assessment.*

Camp Dresser & McKee, May 9, 2008. *April 2008 Semi-Annual Sampling Report, Stoney Mountain Road Sanitary Landfill*.

Camp Dresser & McKee, September 26, 2008. *Henderson County Additional Groundwater Assessment Proposed Workplan*.

Golder Associates NC, Inc., September 17, 2009. *Groundwater Assessment Work Plan; Closed Henderson County Landfill, Permit No. 45-01; Henderson County, North Carolina*.

Golder Associates NC, Inc., September 28, 2010. *Alternate Source Demonstration: Anomalous Detections of Volatile Organic Compounds; Henderson County Closed Construction and Demolition Landfill, Permit No. 45-01.*

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

	MSW Landfill Compliance Monitoring Wells								MSW Landfill Assessment Monitoring Wells								MSW Non-Compliance Wells							
	MW-5		MW-6		MW-7		MW-8		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		2193.09		2190.77		2177.66		2177.58		2206.42		2205.76		2182.77		2182.07	
Date	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)
10/04/06	2334.31	55.51	2191.02	13.22	2191.61	19.05	2209.54	26.33	2179.83	13.26	2176.67	14.10	--	--	--	--	--	--	--	--	--	--	--	--
03/21/07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/02/07	2331.55	58.27	2188.19	16.05	2189.95	20.71	2207.85	28.02	2176.63	16.46	2174.07	16.70	--	--	--	--	--	--	--	--	--	--	--	--
04/03/08	2326.17	63.65	2190.65	13.59	2190.63	20.03	2209.61	26.26	2180.41	12.68	2177.04	13.73	--	--	--	--	--	--	--	--	--	--	--	--
10/29/08	2322.17	67.65	2186.73	17.51	2188.87	21.79	2206.91	28.96	2175.87	17.22	2173.56	17.21	2168.25	9.41	2170.93	6.65	--	--	--	--	--	--	--	--
03/24/09	2319.25	70.57	2188.30	15.94	2189.28	21.38	2208.43	27.44	2178.99	14.10	2176.04	14.73	2169.29	8.37	2172.05	5.53	--	--	--	--	--	--	--	--
09/21-24/09	2326.37	63.45	2194.99	9.25	2190.56	20.10	2209.46	26.41	2180.79	12.30	2177.56	13.21	2170.17	7.49	2174.88	2.70	2200.47	5.95	2200.58	5.18	2174.92	7.85	2174.14	7.93
03/22-23/10	2342.62	47.20	<2185.22	>19.02	2193.88	16.78	2208.53	27.34	2182.71	10.38	2178.32	12.45	2170.28	7.38	2173.33	4.25	2200.91	5.51	2201.11	4.65	2175.02	7.75	2164.27	17.8
09/21-22/10	2338.34	51.48	2189.98	14.26	2191.49	19.17	2210.62	25.25	2177.74	15.35	2173.85	16.92	2171.40	6.26	2170.92	6.66	2199.72	6.7	2199.58	6.18	2163.77	19	2171.73	10.34
03/15-16/11	2333.36	56.46	2194.83	9.41	2191.45	19.21	2211.13	24.74	2181.44	11.65	2176.77	14.00	2169.72	7.94	2171.74	5.84	2200.61	5.81	2200.72	5.04	2174.81	7.96	2173.04	9.03
09/20-21/11	2331.91	57.91	2189.10	15.14	2190.61	20.05	2209.78	26.09	2177.42	15.67	2173.77	17.00	2168.40	9.26	2170.86	6.72	2199.74	6.68	2199.44	6.32	2173.97	8.8	2171.72	10.35
03/20-22/12	2330.51	59.31	2189.49	14.75	2191.15	19.51	2210.25	25.62	2178.99	14.10	2175.58	15.19	2169.04	8.62	2171.08	6.50	2200.24	6.18	2200.13	5.63	2174.36	8.41	2172.34	9.73
09/19-20/12	2328.67	61.15	2189.64	14.60	2190.07	20.59	2209.24	26.63	2177.89	15.20	2175.53	15.24	2169.33	8.33	2172.33	5.25	--	--	--	--	--	--	--	--
03/20/13	2330.45	59.37	2189.68	14.56	2190.54	20.12	2210.79	25.08	2179.83	13.26	2176.77	14.00	2169.69	7.97	2173.50	4.08	2200.44	5.98	2200.45	5.31	2174.59	8.18	2172.83	9.24
09/18/13	2342.55	47.27	2190.92	13.32	2191.97	18.69	2212.33	23.54	2179.38	13.71	2176.39	14.38	2168.98	8.68	2174.27	3.31	2198.04	8.38	2198.73	7.03	2174.20	8.57	2172.58	9.49
03/26/14	2339.89	49.93	2190.53	13.71	2191.50	19.16	2211.92	23.95	2180.00	13.09	2176.92	13.85	2169.51	8.15	2174.24	3.34	2200.43	5.99	2200.54	5.22	2174.54	8.23	2172.73	9.34
09/18/14	2336.72	53.10	2189.19	15.05	2190.44	20.22	2210.90	24.97	2178.02	15.07	2175.28	15.49	2168.67	8.99	2173.02	4.56	2200.33	6.09	2199.73	6.03	2174.10	8.67	2171.82	10.25
MEAN	*2332.18*	*57.64*	*2190.22*	*14.02*	*2190.88*	*19.79*	*2209.83*	*26.04*	*2179.12*	*13.97*	*2175.88*	*14.89*	*2169.44*	*8.22*	*2172.55*	*5.03*	*2200.09*	*6.33*	*2200.10*	*5.66*	*2173.43*	*9.34*	*2171.72*	*10.35*
MAXIMUM	*2342.62*	*70.57*	*2194.99*	*17.51*	*2193.88*	*21.79*	*2212.33*	*28.96*	*2182.71*	*17.22*	*2178.32*	*17.21*	*2171.40*	*9.41*	*2174.88*	*6.72*	*2200.91*	*8.38*	*2201.11*	*7.03*	*2175.02*	*19.00*	*2174.14*	*17.80*
MINIMUM	*2319.25*	*47.20*	*2186.73*	*9.25*	*2188.87*	*16.78*	*2206.91*	*23.54*	*2175.87*	*10.38*	*2173.56*	*12.45*	*2168.25*	*6.26*	*2170.86*	*2.70*	*2198.04*	*5.51*	*2198.73*	*4.65*	*2163.77*	*7.75*	*2164.27*	*7.93*

	C&D Landfill Compliance Monitoring Wells								TVA Landfill Monitoring Well	
	MW-10		MW-11		MW-12		MW-13		MW-9	
TOC Elevation (ft AMSL)	2404.55		2307.72		2300.09		2296.33		2259.59	
Date	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)	Elevation (ft AMSL)	DTW (ft)
10/04/06	--	--	--	--	--	--	--	--	2244.64	15.37
03/21/07	2371.42	33.13	2266.46	30.55	2250.25	49.84	2252.90	47.34	--	--
10/02/07	--	--	--	--	--	--	--	--	2244.08	15.93
04/03/08	--	--	--	--	--	--	--	--	2244.03	15.98
10/29/08	2364.42	40.13	2258.56	38.45	2246.56	53.53	2245.91	54.33	2242.52	17.49
03/24/09	2363.04	41.51	2256.50	40.51	2244.43	55.66	2244.51	55.73	2242.21	17.80
09/21-24/09	2367.33	37.22	2258.97	38.04	2245.20	54.89	2245.56	54.68	2243.29	16.72
03/22-23/10	2376.31	28.24	2258.18	38.83	2250.60	49.49	2253.17	47.07	2236.04	23.97
09/21-22/10	2369.83	34.72	2267.16	29.85	2250.78	49.31	2253.84	46.4	2245.16	14.85
03/15-16/11	2367.12	37.43	2263.36	33.65	2248.90	51.19	2251.00	49.24	2245.10	14.91
09/20-21/11	2368.37	36.18	2260.95	46.77	2249.18	50.91	2250.57	45.76	2244.95	14.64
03/20-22/12	2367.47	37.08	2260.61	47.11	2248.24	51.85	2249.98	46.35	2244.54	15.05
09/19-20/12	2367.05	37.50	2260.07	47.65	2247.39	52.70	2249.08	47.25	--	--
03/20/13	2367.57	36.98	2259.14	48.58	2247.66	52.43	2249.30	47.03	2244.43	15.16
09/18/13	2375.12	29.43	2265.42	42.30	2252.34	47.75	2255.88	40.45	2249.63	9.96
03/26/14	2372.14	32.41	2266.61	41.11	2253.04	47.05	2255.79	40.54	2247.08	12.51
09/18/14	2369.87	34.68	2265.38	42.34	2251.59	48.50	2254.33	42.00	--	--
MEAN	*2369.08*	*35.47*	*2261.96*	*40.41*	*2249.01*	*51.08*	*2250.84*	*47.44*	*2244.12*	*15.74*
MAXIMUM	*2376.31*	*41.51*	*2267.16*	*48.58*	*2253.04*	*55.66*	*2255.88*	*55.73*	*2249.63*	*23.97*
MINIMUM	*2363.04*	*28.24*	*2256.50*	*29.85*	*2244.43*	*47.05*	*2244.51*	*40.45*	*2236.04*	*9.96*

Notes: DTW = depth to water
ft = feet
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 were resurveyed.

TABLE 2

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

September 2014							
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	1598	2340 / 2200	0.0876	0.15	1.26E-04	76.31
i_3	WSW	382	2360 / 2260	0.2616	0.15	1.26E-04	227.86

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 Well Construction Information
Henderson County Closed MSW and C&D Landfills, Permit No. 45-01

Well Identification	Construction Date	Coordinates		Ground Surface Elevation (ft AMSL)	TOC Elevation (ft AMSL)	Well Depth (ft)	Well Diameter (in)	Screened Interval (ft BGS)	Screened Interval (ft AMSL)	Geology of Screened Interval	Well Status
		Northing	Easting								
MW-5	10/21/1994	603077.23	958574.87	2386.79	2389.82	73.03	2	48.03 - 73.03	2341.79 - 2316.79	Saprolite	MSW Compliance Background Well
MW-6	10/20/1994	602152.02	956919.71	2202.39	2205.39	23.00	2	8.00 - 23.00	2197.39 - 2182.39	Saprolite	MSW Compliance Well
MW-7	10/17/1994	601949.28	957146.97	2207.77	2210.66	27.89	2	12.89 - 27.89	2197.77 - 2182.77	Saprolite	MSW Compliance Well
MW-8	10/18/1994	601765.86	957772.78	2232.97	2235.87	34.90	2	19.90 - 34.90	2215.97 - 2200.97	Saprolite	MSW Compliance Well
MW-9	10/18/1994	601664.26	958474.38	2256.95	2260.01	28.06	2	13.06 - 28.06	2246.95 - 2231.95	Saprolite	TVA Monitoring Well
AMW-1S	10/15/2001	602112.51	956718.62	2190.20	2193.09	31.72	2	15 - 30	2175.20 - 2160.20	Saprolite	MSW Assessment Well
AMW-1D	10/15/2001	602096.10	956704.70	2188.37	2190.77	62.65	2	50 - 60	2138.37 - 2128.37	PWR / Upper Fractured Rock	MSW Assessment Well
AMW-2S	4/2/2008	602098.59	956540.99	2168.25	2177.66	22.00	2	7.00 - 22.00	2161.25 - 2146.25	Saprolite	MSW Assessment Well
AMW-2D	4/2/2008	602116.88	956553.69	2170.93	2177.58	80.00	2	70.00 - 80.00	2100.93 - 2090.93	Fractured Rock	MSW Assessment Well
MW-10	NA	601790.07	959077.23	2402.63	2404.55	45	2	35 - 45	2367.63 - 2357.63	Saprolite / PWR	C&D Compliance Background Well
MW-11	NA	601946.06	958655.82	NA	2297.01	48.17	2	NA - 48.17	NA	NA	C&D Compliance Well
MW-12	NA	601683.36	958608.18	2297.97	2300.09	60	2	50 - 60	2244.97 - 2234.97	Saprolite / PWR	C&D Compliance Well
MW-13	NA	601511.47	958653.36	NA	2300.24	92	2	77 - 92	2221.16 - 2206.16	Bedrock	C&D Compliance Well
MW-1 (OLD)	NA	601264.43	957865.19	NA	2206.40	20.7 BTOC	2	NA	NA	Saprolite	Non-Compliance Well
MW-1	NA	601286.04	957837.08	NA	2206.80	70.2 BTOC	2	NA	NA	PWR	Non-Compliance Well
MW-2 (OLD)	NA	601446.34	957142.17	NA	2182.10	20.6 BTOC	2	NA	NA	Saprolite / PWR	Non-Compliance Well
MW-2	NA	601438.21	957125.15	NA	2182.80	67.6 BTOC	2	NA	NA	PWR / Upper Fractured Rock	Non-Compliance Well

Notes: ft = feet
in = inches
AMSL = above mean sea level
BGS = below ground surface
BTOC = below top of casing
Well construction information provided by Henderson County & CDM
NA = Data is not available or not applicable
PWR = Partially Weathered Rock
Northings and eastings were taken from Drawing 1 and should be considered approximate.

TABLE 4

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	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	--
EPA MCL = 6 ug/L	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	0.68	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.0730	6	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	0.220	6	ND	Dry	ND	0.441 J	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.220	6	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	0.220	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	0.220	6	ND	0.478 J	0.408 J	0.287 J	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	0.220	6	0.320 J	ND	ND	0.906 J	ND	0.236 J	ND	ND	ND	ND
	ug/L	09/20/12	0.220	6	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.220	6	ND	ND	ND	0.621 J	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.220	6	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	0.220	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.220	6	0.319 J	0.275 J	0.874 J	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	--
EPA MCL = 10 ug/L	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	2.8	10	ND	ND	ND	3.1 J	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	2.80	10	ND	5.40 B	7.18 B	ND	ND	ND	ND	ND	--	2.90 J
	ug/L	03/22/10	2.80	10	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	2.80	10	ND	5.27 J	ND	4.58 J	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	2.80	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	2.80	10	ND	ND	5.48 J	6.93 J	ND	ND	4.29 J	3.03 J	--	ND
	ug/L	03/21/12	2.80	10	3.80 J	ND	ND	ND	ND	ND	ND	4.00 J	ND	ND
	ug/L	09/20/12	2.80	10	ND	ND	ND	ND	ND	ND	ND	ND	--	3.27 J
	ug/L	03/20/13	2.80	10	ND	ND	ND	ND	ND	ND	ND	3.04 J	ND	ND
	ug/L	09/18/13	5.40	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	5.40	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	5.40	10	ND	ND	ND	ND	5.51 J	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	--
EPA MCL = 2000 ug/L	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	4.20	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	1.00	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	1.00	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	1.00	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	1.00	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	1.00	100	40.2 J	482	453	**1370**	214	12.2 J	14.0 J	2.07 J	--	ND
	ug/L	03/21/12	1.00	100	60.8 J	315	481	**1070**	412	14.5 J	7.28 J	1.64 J	180	ND
	ug/L	09/20/12	1.00	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	1.00	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	1.00	100	57.7 J	218	590	**787**	400	11.3 J	26.6 J	2.75 B	--	1.08 J
	ug/L	03/27/14	1.00	100	42.5 J	43.3 J	514	**988**	239	21.5 J	10.4 J	2.58 J	217	ND
	ug/L	09/18/14	1.00	100	31.2 J	482	453	**1050**	306	16.5 J	5.60 B	2.15 B	--	1.96 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	--
EPA MCL = 4 ug/L	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**	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	0.08	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	0.100	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	0.100	1	ND	Dry	0.635 J	ND	0.631 J	ND	ND	0.247 J	--	ND
	ug/L	09/23/10	0.100	1	0.198 J	ND	0.570 J	ND	0.492 J	ND	ND	ND	--	ND
	ug/L	03/16/11	0.100	1	0.208 J	ND	0.422 J	ND	1.06	ND	1.80	ND	--	ND
	ug/L	09/21/11	0.100	1	ND	0.183 J	0.707 J	1.13	1.37	ND	0.138 J	ND	--	ND
	ug/L	03/21/12	0.100	1	0.222 J	ND	0.260 J	0.189 J	1.96	ND	ND	ND	1.37	ND
	ug/L	09/20/12	0.100	1	ND	ND	0.298 J	0.443 J	1.68	ND	ND	ND	--	ND
	ug/L	03/20/13	0.100	1	ND	ND	0.258 J	0.327 J	0.420 J	ND	ND	ND	1.68	ND
	ug/L	09/18/13	0.100	1	ND	ND	0.105 J	ND	0.484 J	ND	0.331 J	ND	--	ND
	ug/L	03/27/14	0.100	1	ND	ND	0.199 J	ND	0.556 J	ND	ND	ND	2.19	ND
	ug/L	09/18/14	0.100	1	0.106 J	ND	0.295 J	ND	1.07	ND	ND	ND	--	ND

Golder Associates

TABLE 4

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	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	--
EPA MCL = 5 ug/L	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	0.09	1	ND	0.22 J	0.18 J	1.06	0.61 J	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.360	1	0.667 J	ND	0.659 J	0.627 J	ND	ND	1.24	ND	--	ND
	ug/L	03/22/10	0.360	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.360	1	ND	ND	0.493 J	0.618 J	0.416 J	ND	ND	ND	--	ND
	ug/L	03/16/11	0.360	1	ND	0.517 J	ND	ND	1.07	ND	ND	ND	--	ND
	ug/L	09/21/11	0.360	1	ND	ND	0.666 J	0.441 J	0.841 J	ND	ND	ND	--	ND
	ug/L	03/21/12	0.360	1	ND	ND	0.673 J	ND	**2.13**	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.360	1	ND	ND	0.655 J	ND	**2.87**	ND	ND	ND	--	ND
	ug/L	03/20/13	0.360	1	ND	ND	**3.30**	ND	1.20	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.360	1	ND	ND	0.785 J	ND	0.669 J	ND	ND	ND	--	ND
	ug/L	03/27/14	0.360	1	ND	ND	0.455 J	ND	1.24	ND	ND	ND	0.453 J	ND
	ug/L	09/18/14	0.360	1	ND	ND	0.858 J	ND	**2.41**	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	--
EPA MCL = 100 ug/L	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	0.7	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	1.00	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	1.00	10	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1.00	10	ND	ND	1.50 J	4.38 J	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1.00	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	1.00	10	ND	6.75 J	5.20 J	**12.4**	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1.00	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	1.00	10	ND	ND	1.31 J	2.42 J	2.29 J	ND	ND	ND	--	ND
	ug/L	03/20/13	1.40	10	2.48 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	1.40	10	ND	4.80 J	5.25 J	3.23 J	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	1.40	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	1.40	10	ND	5.15 J	1.95 J	2.65 J	1.68 J	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	--
EPA MCL = No Standard	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	0.6	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	1.10	10	ND	**4.81 J**	ND	**2.50 J**	**10.8**	ND	ND	ND	--	ND
	ug/L	03/22/10	1.10	10	ND	Dry	ND	**6.33 J**	**3.47 J**	ND	ND	ND	--	ND
	ug/L	09/23/10	1.10	10	ND	**2.13 J**	ND	**9.21 J**	**3.42 J**	ND	ND	ND	--	ND
	ug/L	03/16/11	1.10	10	ND	ND	ND	**2.87 J**	**8.51 J**	ND	**1.26 J**	ND	--	ND
	ug/L	09/21/11	1.10	10	ND	**3.73 J**	ND	**7.48 J**	**9.15 J**	ND	ND	ND	--	ND
	ug/L	03/21/12	1.10	10	ND	**3.48 J**	ND	**3.74 J**	**18.4**	ND	ND	ND	ND	ND
	ug/L	09/20/12	1.10	10	ND	ND	ND	**3.20 J**	**16.0**	ND	**1.33 J**	ND	--	ND
	ug/L	03/20/13	1.10	10	**1.32 J**	ND	ND	**3.67 J**	**5.62 J**	ND	ND	ND	ND	ND
	ug/L	09/18/13	1.10	10	ND	**43.8**	**18.7**	**2.44 J**	**4.83 J**	ND	**2.33 J**	ND	--	ND
	ug/L	03/27/14	1.10	10	ND	**1.91 J**	ND	**3.03 J**	**5.44 J**	ND	**2.24 J**	ND	**1.81 J**	ND
	ug/L	09/18/14	1.10	10	ND	**5.56 J**	ND	**5.11 J**	**9.65 J**	ND	**1.23 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	--
EPA MCL = 1300 ug/L#	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	0.81	10	2.32 J	4.96 J	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1.60	10	5.15 J	6.17 J	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1.60	10	1.84 J	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1.60	10	1.77 J	ND	ND	9.93 J	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1.60	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	1.60	10	4.10 J	12.8	ND	14.2	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1.60	10	8.77 J	ND	ND	2.96 J	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1.60	10	1.77 J	3.29 J	ND	2.54 J	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1.60	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	1.60	10	5.69 J	9.55 J	ND	ND	ND	ND	1.99 J	ND	--	ND
	ug/L	03/27/14	1.60	10	ND	2.51 J	ND	2.75 J	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	1.60	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND

Golder Associates

TABLE 4

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	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	--
EPA MCL = 15 ug/L#	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	1.6	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	1.90	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	1.90	10	ND	Dry	ND	2.20 J	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1.90	10	ND	ND	ND	12.2	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1.90	10	4.92 J	ND	ND	3.40 J	ND	ND	**25.6**	2.69 J	--	ND
	ug/L	09/21/11	1.90	10	ND	**15.5**	3.27 J	**18.5**	2.57 J	ND	ND	ND	--	ND
	ug/L	03/21/12	1.90	10	4.38 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1.90	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	1.90	10	ND	ND	3.46 J	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	2.10	10	ND	**17.4**	ND	ND	ND	ND	6.58 J	ND	--	ND
	ug/L	03/27/14	2.10	10	ND	2.26 J	ND	2.33 J	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	2.10	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
Mercury	ug/L	12/05/94	--	0.2	--	--	--	--	--	--	--	--	--	--
NC 2L = 1 ug/L	ug/L	02/14/95	--	0.2	--	--	--	--	--	--	--	--	--	--
EPA MCL = 2 ug/L	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	0.11	0.2	ND	ND	ND	**1.33**	ND	ND	ND	ND	0.14 J	ND
	ug/L	09/22/09	0.0540	0.2	ND	ND	0.0926 J	0.419	--	--	--	--	--	ND
	ug/L	03/22/10	0.0540	0.2	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.170	0.2	ND	ND	ND	0.371	ND	ND	ND	ND	--	ND
(dissolved)	ug/L	09/23/10	0.170	0.2	--	--	--	ND	--	--	--	--	--	--
	ug/L	03/16/11	0.170	0.2	ND	ND	ND	ND	ND	ND	0.178 J	ND	--	ND
	ug/L	09/21/11	0.170	0.2	ND	ND	ND	0.683	ND	ND	0.225	ND	--	ND
	ug/L	03/21/12	0.170	0.2	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/20/12	0.170	0.2	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.170	0.2	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/18/13	0.170	0.2	ND	ND	ND	ND	ND	ND	0.302	ND	--	ND
	ug/L	03/27/14	0.170	0.2	ND	ND	ND	ND	ND	ND	0.308	ND	--	ND
	ug/L	09/18/14	0.170	0.2	ND	ND	ND	ND	ND	ND	**1.53**	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	--
EPA MCL = No Standard	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	0.6	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	1.80	50	ND	3.77 J	ND	ND	2.54 J	2.04 J	ND	ND	--	ND
	ug/L	03/22/10	1.80	50	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1.80	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1.80	50	ND	2.28 J	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1.80	50	ND	4.59 J	ND	ND	2.04 J	ND	ND	ND	--	ND
	ug/L	03/21/12	1.80	50	ND	3.62 J	ND	ND	3.14 J	ND	ND	ND	ND	ND
	ug/L	09/20/12	1.80	50	ND	ND	ND	ND	2.62 J	ND	ND	ND	--	ND
	ug/L	03/20/13	1.80	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	1.80	50	ND	8.99 J	4.74 J	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	1.80	50	ND	1.80 J	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	1.80	50	ND	6.47 J	ND	ND	ND	ND	ND	ND	--	ND

TABLE 4

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	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	
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	--
EPA MCL = 50 ug/L	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	3.4	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	2.70	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	0.830	10	ND	Dry	ND	ND	0.962 J	ND	ND	ND	--	ND
	ug/L	09/23/10	5.20	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	2.70	10	ND	ND	ND	ND	5.08 B	ND	ND	ND	--	3.32 J
	ug/L	09/21/11	2.70	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	2.70	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	2.70	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	4.50	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	5.00	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	5.00	10	ND	ND	ND	ND	ND	ND	ND	ND	5.67 (ND) J	ND
	ug/L	09/18/14	5.00	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
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	--
EPA MCL = 100 ug/L	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	1.0	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1.90	10	ND	ND	ND	ND	2.24 J	ND	ND	ND	--	ND
	ug/L	03/22/10	1.90	10	ND	Dry	ND	3.34 J	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1.90	10	ND	2.52 J	ND	3.05 J	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1.90	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1.90	10	ND	3.73 J	ND	2.33 J	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1.90	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1.90	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1.90	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	1.90	10	ND	2.92 J	4.35 J	2.07 J	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	1.90	10	ND	ND	1.98 J	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	1.90	10	ND	ND	ND	ND	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	--
EPA MCL = 2 ug/L	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	0.036	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	0.110	5.5	ND	ND	ND	**0.404 J**	0.212 J	ND	ND	ND	--	ND
	ug/L	03/22/10	0.110	5.5	ND	Dry	0.118 J	**0.620 J**	0.169 J	ND	ND	ND	--	ND
	ug/L	09/23/10	0.110	5.5	ND	ND	0.124 J	**1.18 J**	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	0.110	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	0.110	5.5	ND	ND	ND	**1.53 J**	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	0.110	5.5	ND	ND	0.119 J	**1.31 J**	**0.418 J**	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.110	5.5	ND	0.144 J	0.155 J	**1.09 J**	**0.512 J**	ND	ND	ND	--	ND
	ug/L	03/20/13	0.110	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	0.110	5.5	ND	0.127 B	0.604 B	0.609 B	0.459 B	ND	ND	ND	--	0.142 J
	ug/L	03/27/14	0.110	5.5	ND	0.131 J	0.171 J	**0.637 J**	**0.340 J**	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.110	5.5	ND	ND	0.145 J	**0.815 J**	**0.663 J**	ND	ND	ND	--	ND
Tin	ug/L	12/05/94	--	--	--	--	--	--	--	--	--	--	--	--
SWS GPS = 2000 ug/L	ug/L	02/14/95	--	--	--	--	--	--	--	--	--	--	--	--
EPA MCL = No Standard	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	1.1	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	2.10	100	ND	Dry	ND	2.38 J	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	2.10	100	2.50 J	3.17 J	5.65 J	7.24 J	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	2.10	100	ND	3.86 J	3.42 J	4.51 J	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	2.10	100	ND	3.86 J	3.79 J	6.88 J	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/27/14	2.10	100	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/14	--	--	--	--	--	--	--	--	--	--	--	--

Golder Associates

TABLE 4

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	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	
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	--
EPA MCL = No Standard	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	0.7	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	1.40	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	1.40	25	**1.75** J	Dry	ND	**1.76** J	ND	ND	**1.78** J	**1.42** J	--	ND
	ug/L	09/23/10	1.40	25	ND	ND	ND	**14.7** J	ND	ND	**4.79** J	ND	--	ND
	ug/L	03/16/11	1.40	25	**4.98** J	**2.77** J	ND	ND	ND	ND	**15.3** J	ND	--	ND
	ug/L	09/21/11	1.40	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	1.40	25	**4.72** J	ND	ND	ND	ND	ND	**1.70** J	ND	ND	ND
	ug/L	09/20/12	1.40	25	**1.79** J	**1.77** J	ND	**4.28** J	ND	ND	**3.65** J	ND	--	ND
	ug/L	03/20/13	1.40	25	**5.60** J	**2.36** J	ND	**2.47** J	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	1.40	25	**2.71** J	**12.4** J	ND	ND	ND	ND	**9.96** J	ND	--	ND
	ug/L	03/27/14	1.40	25	ND	**1.93** J	ND	ND	ND	ND	**5.88** J	ND	ND	ND
	ug/L	09/18/14	1.40	25	ND	ND	ND	ND	ND	ND	**4.57** J	ND	--	ND
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	--
EPA MCL = 5000 ug/L*	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	3.4	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	3.80	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	3.80	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	3.80	10	ND	ND	5.37 J	168	4.30 J	5.86 J	ND	ND	--	ND
	ug/L	03/16/11	3.80	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	3.80	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	3.80	10	14.9	28.8	ND	48.3	ND	6.06 J	ND	ND	ND	ND
	ug/L	09/20/12	3.80	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	3.80	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	3.80	10	12.0	45.7	5.04 J	40.5	4.40 J	ND	27.3	ND	--	ND
	ug/L	03/27/14	3.80	10	ND	11.3	ND	79.6	4.19 J	4.92 J	8.80 J	ND	ND	ND
	ug/L	09/18/14	3.80	10	ND	8.37 J	ND	16.8	ND	22.7	ND	ND	--	ND
Acetone	ug/L	12/05/94	100	100	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 6000 ug/L	ug/L	02/14/95	100	100	ND	ND	ND	ND	--	--	--	--	ND	--
EPA MCL = No Standard	ug/L	04/03/95	100	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	100	100	ND	50	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	100	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	100	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/25/02	100	100	ND	190	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	100	100	ND	280	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/21/03	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/25/04	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	100	100	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/06/05	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/26/06	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/22/07	100	100	ND	ND	4.34 J	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	100	100	ND	9.81 B	ND	ND	1.76 B	ND	--	--	ND	5.5 J
	ug/L	04/03/08	100	100	ND	10.1 J	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/30/08	100	100	ND	13.8 J	ND	ND	7.95 J	ND	ND	ND	ND	ND
	ug/L	03/24/09	1.5	100	ND	280	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1.5	100	ND	9.0 J	13 J	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1.5	100	ND	Dry	55 J	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1.5	100	ND	8.7 J	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1.2	100	ND	16 J	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1.2	100	ND	310	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1.2	100	ND	2700	3.6 J	13 J	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1.2	100	ND	ND	ND	5.4 B	ND	ND	ND	ND	--	7.0 J
	ug/L	03/20/13	1.2	100	ND	21 J	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	1.2	100	ND	34 J	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	1.2	100	ND	77 B	ND	6.2 B	ND	ND	ND	ND	ND	19 J
	ug/L	09/18/14	1.2	100	ND	24 J	ND	ND	ND	ND	ND	ND	--	ND
Acrylonitrile	ug/L	12/05/94	1	200	ND	ND	ND	ND	--	--	--	--	ND	--
SWS GPS / NC 2L = No Standard	ug/L	02/14/95	100	200	ND	ND	ND	ND	--	--	--	--	ND	--
EPA MCL = No Standard	ug/L	04/03/95	100	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	100	200	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	100	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	100	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	100	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	100	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	100	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	100	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	100	200	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	100	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	100	200	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	100	200	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	100	200	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	100	200	ND	ND	ND	17.9 J	ND	ND	--	--	ND	ND
	ug/L	04/03/08	100	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	100	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	2.1	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	2.1	200	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	2.1	200	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	2.1	200	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	3.5	200	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	3.5	200	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	3.5	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	3.5	200	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	3.5	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	3.5	200	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	3.5	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	3.5	200	ND	ND	ND	ND	ND	ND	ND	ND	--	ND

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TABLE 4

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	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	
Benzene	ug/L	12/05/94	5	5	ND	**11**	ND	ND	--	--	--	--	ND	--
NC 2L = 1 ug/L	ug/L	02/14/95	5	5	ND	**11**	ND	ND	--	--	--	--	ND	--
EPA MCL = 5 ug/L	ug/L	04/03/95	5	5	ND	**8**	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	5	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5	5	ND	**9**	**3.9**	ND	--	--	--	--	ND	--
	ug/L	10/24/96	5	5	ND	--	**5**	ND	--	--	--	--	ND	--
	ug/L	04/15/97	5	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	5	ND	**6**	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	5	5	ND	**7.19**	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	5	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	5	ND	**7.61**	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	5	ND	**6.23**	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	5	ND	**6.8**	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	5	ND	**1.36**	**2.48**	**3.55**	0.44 J	**1.52**	--	--	ND	ND
	ug/L	10/02/07	5	5	ND	**5.47**	**1.70**	**4.99**	**1.68**	**1.55**	--	--	ND	ND
	ug/L	04/03/08	5	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	5	ND	**3.08**	**1.51**	**6.23**	**2.13**	**1.49**	**1.25**	ND	ND	ND
	ug/L	03/24/09	0.20	1	ND	ND	ND	0.64 J	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.20	1	ND	ND	**1.4**	**4.2**	0.44 J	**1.3**	**1.2**	ND	--	ND
	ug/L	03/22/10	0.050	1	ND	Dry	**1.4**	ND	ND	**1.1**	0.75 J	ND	--	ND
	ug/L	09/23/10	0.20	1	ND	0.98 J	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	0.68	1	ND	ND	**1.6**	ND	ND	**1.2**	0.96 J	ND	--	ND
	ug/L	09/21/11	0.68	1	ND	**4.6**	**1.4**	0.85 J	ND	**1.2**	0.82 J	ND	--	ND
	ug/L	03/21/12	0.15	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	0.15	1	ND	ND	0.94 J	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.15	1	ND	ND	**1.5**	**3.0**	ND	**1.2**	**1.2**	ND	ND	ND
	ug/L	09/18/13	0.15	1	ND	**2.9**	**1.7**	0.89 J	0.56 J	**1.1**	0.86 J	ND	--	ND
	ug/L	03/27/14	0.15	1	ND	ND	**1.6**	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.15	1	ND	**4.6**	**1.1**	ND	ND	**1.1**	0.58 J	ND	--	ND
Carbon disulfide	ug/L	02/14/95	5	100	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 700 ug/L	ug/L	04/03/95	5	100	ND	ND	ND	ND	--	--	--	--	ND	--
EPA MCL = No Standard	ug/L	10/30/95	5	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	12/05/95	0.4	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	5	100	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	5	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	5	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	5	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	100	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	5	100	ND	ND	ND	0.14 J	ND	ND	--	--	ND	ND
	ug/L	04/03/08	5	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	5	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	0.54	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.54	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	0.54	100	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.54	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1.5	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1.5	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1.5	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1.5	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1.5	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	1.5	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	1.5	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	1.5	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
Carbon tetrachloride	ug/L	02/14/95	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 0.3 ug/L	ug/L	04/03/95	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
EPA MCL = 5 ug/L	ug/L	10/30/95	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	12/05/95	0.35	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5	1	ND	ND	ND	**2**	--	--	--	--	ND	--
	ug/L	10/24/96	5	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	5	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	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	1	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	5	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	0.38	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.38	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	0.082	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.38	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	0.69	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	0.69	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	0.17	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.17	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.17	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.17	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	0.17	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.17	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
Chlorobenzene	ug/L	12/05/94	5	5	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 50 ug/L	ug/L	02/14/95	5	5	ND	ND	ND	ND	--	--	--	--	ND	--
EPA MCL = 100 ug/L	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	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	5	ND	10	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	5	5	ND	11	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	5	5	ND	13	5	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	5	ND	ND	6	--	6.12	ND	--	--	ND	--
	ug/L	10/04/05	5	5	ND	13.4	6	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	5	ND	10.8	6.02	ND	9.62	ND	--	--	ND	--
	ug/L	10/04/06	5	5	ND	9	6	ND	16.2	ND	--	--	ND	ND
	ug/L	03/21/07	5	5	ND	1.34	5.89	0.59 J	2.83	4.62	--	--	ND	ND
	ug/L	10/02/07	5	5	ND	6.16	5.95	0.83 J	ND	5.13	--	--	ND	ND
	ug/L	04/03/08	5	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	5	ND	8.02	5.41	1.11 J	23.8	5.09	1.86 J	ND	ND	ND
	ug/L	03/24/09	0.27	3	ND	ND	4.6	ND	0.46 J	3.8	2.0 J	ND	ND	ND
	ug/L	09/22/09	0.27	3	ND	ND	5.7	0.75 J	4.9	4.9	1.0 J	ND	--	ND
	ug/L	03/22/10	0.069	3	ND	Dry	6.4	ND	ND	4.6	0.97 J	ND	--	ND
	ug/L	09/23/10	0.27	3	ND	7.5	6.3	ND	ND	4.2	0.55 J	ND	--	ND
	ug/L	03/16/11	0.74	3	ND	ND	7.3	ND	ND	4.5	1.2 J	ND	--	ND
	ug/L	09/21/11	0.74	3	ND	8.1	8.4	ND	1.4 J	4.6	1.2 J	ND	--	ND
	ug/L	03/21/12	0.17	3	ND	ND	8.5	ND	5.5	3.6	1.7 J	ND	ND	ND
	ug/L	09/20/12	0.17	3	ND	ND	7.8	ND	1.7 J	1.8 J	ND	ND	--	ND
	ug/L	03/20/13	0.17	3	ND	ND	10	1.0 J	1.2 J	5.2	2.4 J	ND	ND	ND
	ug/L	09/18/13	0.17	3	ND	4.8	8.0	0.43 J	4.1	5.2	1.8 J	ND	--	ND
	ug/L	03/27/14	0.17	3	ND	ND	10	ND	ND	4.9	1.2 J	ND	ND	ND
	ug/L	09/18/14	0.17	3	ND	8.0	10	ND	ND	5.6	0.88 J	ND	--	ND

Golder Associates

TABLE 4

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	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	
Chloroethane	ug/L	12/05/94	10	10	ND	ND	ND	ND	--	--	--	--	ND	--
SWS GPS = 3000 ug/L	ug/L	02/14/95	10	10	ND	ND	ND	ND	--	--	--	--	ND	--
EPA MCL = No Standard	ug/L	04/03/95	10	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	10	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	10	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	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	10	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	10	10	ND	0.85 J	ND	0.69 J	11.1	ND	--	--	ND	ND
	ug/L	04/03/08	10	10	ND	ND	ND	0.87 J	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	10	10	ND	ND	ND	0.68 J	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	0.30	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.30	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	0.18	10	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.30	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	0.75	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	0.75	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	0.23	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.23	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.23	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.23	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	0.23	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.23	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
1,2-Dichlorobenzene	ug/L	12/05/94	0.27	5	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 20 ug/L	ug/L	02/14/95	5	5	ND	ND	ND	ND	--	--	--	--	ND	--
EPA MCL = 600 ug/L	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	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	5	ND	6	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	5	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	5	ND	12	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	5	ND	10	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	5	ND	10	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	5	ND	0.39 J	ND	0.97 J	ND	0.62 J	--	--	ND	ND
	ug/L	10/02/07	5	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	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	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	0.27	5	ND	ND	ND	0.44 J	ND	0.53 J	ND	ND	ND	ND
	ug/L	09/22/09	0.27	5	ND	ND	ND	0.66 J	ND	0.46 J	ND	ND	--	ND
	ug/L	03/22/10	0.052	5	ND	Dry	0.49 J	ND	ND	0.64 J	ND	ND	--	ND
	ug/L	09/23/10	0.27	5	ND	3.6 J	0.52 J	ND	ND	0.64 J	ND	ND	--	ND
	ug/L	03/16/11	0.11	5	ND	ND	ND	ND	ND	0.71 J	ND	ND	--	ND
	ug/L	09/21/11	0.11	5	ND	5.8	0.58 J	ND	ND	0.65 J	ND	ND	--	ND
	ug/L	03/21/12	0.19	5	ND	ND	0.56 J	ND	ND	0.62 J	ND	ND	ND	ND
	ug/L	09/20/12	0.19	5	ND	ND	0.50 J	0.52 J	ND	0.51 J	ND	ND	--	ND
	ug/L	03/20/13	0.19	5	ND	ND	0.76 J	1.3 J	ND	0.90 J	ND	ND	ND	ND
	ug/L	09/18/13	0.19	5	ND	1.3 J	0.83 J	ND	ND	0.65 J	ND	ND	--	ND
	ug/L	03/27/14	0.19	5	ND	ND	0.76 J	ND	ND	0.55 J	ND	ND	ND	ND
	ug/L	09/18/14	0.19	5	ND	2.9 J	0.81 J	ND	ND	0.69 J	ND	ND	--	ND
1,4-Dichlorobenzene	ug/L	12/05/94	5	5	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 6 ug/L	ug/L	02/14/95	5	5	ND	--	ND	ND	--	--	--	--	ND	--
EPA MCL = 75 ug/L	ug/L	04/03/95	5	5	ND	**11**	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	5	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	5	ND	ND	**12**	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	5	5	ND	**23**	**13**	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	**20**	**19**	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	5	ND	ND	**17.8**	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	5	ND	**25.4**	**17**	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	5	ND	**24.3**	**16.4**	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	5	ND	**18.5**	**14.6**	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	5	ND	1.67 J	**17.1**	2.79 J	1.37	2.86 J	--	--	ND	ND
	ug/L	10/02/07	5	5	ND	**18.7**	**12.0**	3.64 J	3.24 J	2.99 J	--	--	ND	ND
	ug/L	04/03/08	5	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	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	0.38	1	ND	ND	**6.4**	1.3	0.57 J	2.6	1.4	ND	ND	ND
	ug/L	09/22/09	0.38	1	ND	ND	**6.8**	2.4	1.4	2.1	1.0	ND	--	ND
	ug/L	03/22/10	0.10	1	ND	Dry	**9.8**	ND	ND	3.2	1.2	ND	--	ND
	ug/L	09/23/10	0.38	1	ND	**15**	**8.8**	ND	ND	3.4	0.91 J	ND	--	ND
	ug/L	03/16/11	0.79	1	ND	ND	**10**	ND	ND	3.2	1.3	ND	--	ND
	ug/L	09/21/11	0.79	1	ND	**14**	**12**	ND	0.93 J	4.2	1.2	ND	--	ND
	ug/L	03/21/12	0.19	1	ND	5.4 J	**12**	0.49 J	2.9	3.7	1.4	ND	ND	ND
	ug/L	09/20/12	0.19	1	ND	0.77 J	**11**	1.0	2.0	3.8	1.2	ND	--	ND
	ug/L	03/20/13	0.19	1	ND	ND	**14**	3.8	ND	5.0	2.2	ND	ND	ND
	ug/L	09/18/13	0.19	1	ND	6.0	**13**	1.2	0.73 J	4.1	1.4	ND	--	ND
	ug/L	03/27/14	0.19	1	ND	ND	**18**	ND	ND	3.1	0.73 J	ND	ND	ND
	ug/L	09/18/14	0.19	1	ND	**13**	**15**	ND	ND	4.3	0.86 J	ND	--	ND
Dichlorodifluoromethane	ug/L	12/05/94	5	5	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 1000 ug/L	ug/L	02/14/95	5	5	ND	ND	ND	ND	--	--	--	--	ND	--
EPA MCL = No Standard	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	ND	ND	ND	ND	--	--	--	--	ND	--
	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	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	5	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	5	5	ND	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	ND	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	ND	ND	--	ND	ND	--	--	--	--
	ug/L	10/04/05	5	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	5	ND	ND	ND	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	ND	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	ND	ND
	ug/L	10/29/08	0.16	5	ND	ND	ND	0.65 J	ND	ND	ND	ND	0.45 J	ND
	ug/L	03/24/09	0.38	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	0.091	5	ND	Dry	ND	ND	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	0.56	5	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	0.20	5	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	0.20	5	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/27/14	0.20	5	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/14	--	--	--	--	--	--	--	--	--	--	--	--

Golder Associates

TABLE 4

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	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	5	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 6 ug/L	ug/L	02/14/95	5	5	ND	ND	**9**	ND	--	--	--	--	ND	--
EPA MCL = No Standard	ug/L	04/03/95	5	5	ND	--	**7**	ND	--	--	--	--	--	--
	ug/L	10/30/95	5	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	5	ND	ND	ND	**18**	ND	ND	--	--	ND	--
	ug/L	03/24/04	5	5	ND	ND	ND	**10**	ND	ND	--	--	ND	--
	ug/L	10/27/04	5	5	ND	ND	ND	**13**	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	5	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	5	ND	ND	ND	6	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	5	ND	ND	1.69	**7.8**	ND	1.31	--	--	ND	ND
	ug/L	10/02/07	5	5	ND	0.45 J	1.66 J	**9.7**	0.1 J	1.27 J	--	--	ND	ND
	ug/L	04/03/08	5	5	ND	ND	1.72 J	**13.1**	ND	1.36 J	0.98 J	ND	ND	ND
	ug/L	10/29/08	5	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	0.33	5	ND	ND	0.83 J	3.6 J	ND	1.2 J	1.1 J	ND	ND	ND
	ug/L	09/22/09	0.33	5	ND	ND	0.75 J	**8.9**	ND	1.0 J	1.3 J	ND	--	ND
	ug/L	03/22/10	0.050	5	ND	Dry	0.64 J	ND	ND	0.76 J	0.90 J	ND	--	ND
	ug/L	09/23/10	0.33	5	ND	ND	0.64 J	ND	ND	0.87 J	0.84 J	ND	--	ND
	ug/L	03/16/11	0.080	5	ND	ND	0.56 J	ND	ND	0.91 J	1.0 J	ND	--	ND
	ug/L	09/21/11	0.080	5	ND	ND	0.74 J	1.7 J	ND	1.1 J	1.4 J	ND	--	ND
	ug/L	03/21/12	0.13	5	ND	ND	0.63 J	0.94 J	ND	0.74 J	1.1 J	ND	ND	ND
	ug/L	09/20/12	0.13	5	ND	ND	0.49 J	2.5 J	ND	1.0 J	1.3 J	ND	--	ND
	ug/L	03/20/13	0.13	5	ND	ND	0.71 J	**6.9**	ND	1.2 J	1.6 J	ND	ND	ND
	ug/L	09/18/13	0.13	5	ND	ND	ND	1.7 J	ND	0.71 J	1.0 J	ND	--	ND
	ug/L	03/27/14	0.13	5	ND	ND	ND	ND	ND	0.72 J	0.92 J	ND	ND	ND
	ug/L	09/18/14	0.13	5	ND	ND	0.43 J	ND	ND	0.54 J	0.96 J	ND	--	ND
1,2-Dichloroethane	ug/L	12/05/94	5	5	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 0.4 ug/L	ug/L	02/14/95	5	5	ND	ND	ND	ND	--	--	--	--	ND	--
EPA MCL = 5 ug/L	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	ND	ND	ND	ND	--	--	--	--	ND	--
	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	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	5	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	5	5	ND	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	ND	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	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	5	ND	ND	ND	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	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	3	3	ND	**0.45 J**	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	0.12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	0.46	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	0.65	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.65	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	0.082	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.65	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	0.47	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	0.47	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	0.21	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.21	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.21	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.21	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	0.21	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.21	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
1,1-Dichloroethene	ug/L	12/05/94	5	5	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 7 ug/L	ug/L	02/14/95	5	5	ND	ND	ND	ND	--	--	--	--	ND	--
EPA MCL = 7 ug/L	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	ND	ND	ND	ND	--	--	--	--	ND	--
	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	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	5	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	5	5	ND	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	ND	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	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	5	ND	ND	ND	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	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	0.14	5	ND	ND	ND	0.33 J	ND	ND	--	--	ND	ND
	ug/L	04/03/08	0.2	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	0.2	5	ND	ND	ND	0.15 J	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	0.24	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.24	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	0.15	5	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.24	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	0.60	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	0.60	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
cis-1,2-Dichloroethene	ug/L	12/05/94	5	5	ND	--	24	11	--	--	--	--	ND	--
NC 2L = 70 ug/L	ug/L	02/14/95	5	5	ND	9	ND	8	--	--	--	--	ND	--
EPA MCL = 70 ug/L	ug/L	04/03/95	5	5	ND	7	17	ND	--	--	--	--	ND	--
	ug/L	10/30/95	5	5	ND	10	25	10	--	--	--	--	ND	--
	ug/L	04/08/96	5	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	5	ND	ND	10	13	ND	ND	--	--	ND	--
	ug/L	10/27/04	5	5	ND	ND	10.5	26.2	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	5	ND	ND	10.6	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	5	ND	ND	12.1	12.8	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	5	ND	ND	12.8	12.3	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	5	ND	ND	14.2	15.7	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	5	ND	0.48 J	12.7	22.1	ND	2.3	--	--	ND	ND
	ug/L	10/02/07	5	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	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	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	0.36	5	ND	ND	4.9 J	7.4	ND	1.7 J	1.7 J	ND	ND	ND
	ug/L	09/22/09	0.36	5	ND	ND	6.1	19	ND	2.0 J	2.5 J	ND	--	ND
	ug/L	03/22/10	0.075	5	ND	Dry	7.0	0.66 J	ND	2.0 J	2.1 J	ND	--	ND
	ug/L	09/23/10	0.36	5	ND	ND	5.2	ND	ND	1.7 J	1.2 J	ND	--	ND
	ug/L	03/16/11	0.72	5	ND	ND	6.4	0.89 J	ND	2.6 J	2.0 J	ND	--	ND
	ug/L	09/21/11	0.72	5	ND	ND	5.6	2.9 J	ND	1.7 J	1.3 J	ND	--	ND
	ug/L	03/21/12	0.15	5	ND	ND	5.2	2.6 J	ND	1.5 J	1.6 J	ND	ND	ND
	ug/L	09/20/12	0.15	5	ND	ND	4.4 J	4.1 J	ND	1.4 J	1.2 J	ND	--	ND
	ug/L	03/20/13	0.15	5	ND	ND	5.6	13	ND	1.9 J	1.8 J	ND	ND	ND
	ug/L	09/18/13	0.15	5	ND	0.53 J	5.3	4.1 J	ND	1.4 J	1.5 J	ND	--	ND
	ug/L	03/27/14	0.15	5	ND	ND	4.5 J	ND	ND	1.2 J	1.2 J	ND	ND	ND
	ug/L	09/18/14	0.15	5	ND	ND	5.0	ND	ND	1.4 J	0.88 J	ND	--	ND

Golder Associates

TABLE 4

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	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	5	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 100 ug/L	ug/L	02/14/95	5	5	ND	ND	ND	ND	--	--	--	--	ND	--
EPA MCL = 100 ug/L	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	ND	ND	ND	ND	--	--	--	--	ND	--
	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	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	5	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	--	5	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	5	5	ND	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	ND	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	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	5	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/21/07	5	5	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	0.13	5	ND	ND	0.50 J	0.22 J	ND	ND	--	--	ND	ND
	ug/L	04/03/08	0.25	5	ND	ND	0.44 J	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	0.25	5	ND	ND	0.26 J	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	0.34	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.34	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	0.11	5	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.34	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	0.12	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	0.12	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.21	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
1,2-Dichloropropane	ug/L	12/05/94	0.2	1	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 0.6 ug/L	ug/L	02/14/95	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
EPA MCL = 5 ug/L	ug/L	04/03/95	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	5	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	5	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	5	1	ND	ND	**1**	ND	--	--	--	--	ND	--
	ug/L	05/14/98	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	5	1	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	--	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	5	1	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	1	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	0.13	1	ND	0.2 J	**0.65 J**	0.5 J	ND	0.17 J	--	--	ND	ND
	ug/L	04/03/08	0.25	1	ND	ND	ND	ND	ND	ND	0.12 J	ND	ND	ND
	ug/L	10/29/08	0.25	1	ND	ND	ND	0.5 J	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	0.20	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.20	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	0.098	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.20	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	0.59	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	0.59	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	0.10	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.10	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	0.10	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.10	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
Ethylbenzene	ug/L	12/05/94	5	1	ND	11	ND	ND	--	--	--	--	ND	--
NC 2L = 600 ug/L	ug/L	02/14/95	5	1	ND	14	ND	ND	--	--	--	--	ND	--
EPA MCL = 700 ug/L	ug/L	04/03/95	5	1	ND	8	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	5	1	ND	10	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5	1	ND	9	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	5	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	5	1	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	5	1	ND	3	ND	2	--	--	--	--	ND	--
	ug/L	05/14/98	5	1	ND	8	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	5	1	ND	11	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	5	1	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	--	1	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	5	1	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	5	1	ND	9	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	5	1	ND	22.4	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	1	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	1	ND	28	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	1	ND	12.4	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	1	ND	15.7	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	1	ND	0.96 J	ND	1.04	ND	ND	--	--	ND	ND
	ug/L	10/02/07	5	1	ND	3.46	ND	1.24 J	ND	ND	--	--	ND	ND
	ug/L	04/03/08	5	1	ND	ND	ND	1.37 J	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	5	1	ND	0.22 J	ND	1.62	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	0.20	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.20	1	ND	ND	ND	0.95 J	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	0.10	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.20	1	ND	2.1	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	0.62	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	0.62	1	ND	2.3	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	0.13	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.13	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.13	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.13	1	ND	0.79 J	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	0.13	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.13	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
2-Hexanone	ug/L	12/05/94	50	50	ND	ND	ND	ND	--	--	--	--	ND	--
SWS GPS = 40 ug/L	ug/L	02/14/95	50	50	ND	ND	ND	ND	--	--	--	--	ND	--
EPA MCL = No Standard	ug/L	04/03/95	50	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	50	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	50	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	50	50	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	50	50	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	50	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	50	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	50	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	50	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	50	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	50	50	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	50	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	50	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	50	50	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	50	50	ND	**55**	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	50	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	50	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	50	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	50	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	50	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	50	50	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	50	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	50	50	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	50	50	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	50	50	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	50	50	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	50	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	50	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	0.69	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.69	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	0.69	50	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.69	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	0.88	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	0.88	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	0.88	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.88	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.88	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.88	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	0.88	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.88	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND

TABLE 4

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	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	0.28	10	ND	ND	ND	ND	--	--	--	--	ND	--
SWS GPS = 70 ug/L	ug/L	02/14/95	5	10	ND	ND	ND	ND	--	--	--	--	ND	--
EPA MCL = No Standard	ug/L	04/03/95	5	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	5	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	5	10	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	5	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	--	--	--	--	--	--	--	--	--	--	--	--
	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	5	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	10	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	5	10	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	5	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	0.37	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.37	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	0.13	10	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.37	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	0.90	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	0.90	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	0.27	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.27	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.27	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.27	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	0.27	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.27	10	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
Methylene chloride	ug/L	12/05/94	10	10	ND	ND	ND	**7**	--	--	--	--	ND	--
NC 2L = 5 ug/L	ug/L	02/14/95	10	10	--	--	--	--	--	--	--	--	--	--
EPA MCL = 5 ug/L	ug/L	04/03/95	10	10	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	10	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	10	ND	ND	ND	**54**	ND	ND	--	--	ND	--
	ug/L	10/20/03	10	10	ND	ND	ND	**27**	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	10	ND	ND	ND	**30**	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	10	ND	ND	ND	**42.1**	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	10	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	10	ND	ND	ND	**13.4**	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	10	ND	ND	ND	**13.9**	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	10	ND	ND	ND	**15.1**	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	10	ND	ND	0.35 J	**23.3**	ND	0.24 J	--	--	ND	ND
	ug/L	10/02/07	10	10	ND	0.57 B	ND	**22.0**	ND	ND	--	--	ND	0.41 J
	ug/L	04/03/08	10	10	ND	ND	0.34 B	**34.2**	ND	ND	ND	3.10 J	ND	0.42 J
	ug/L	10/29/08	10	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	0.53	1	ND	ND	ND	**11**	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.53	1	ND	ND	ND	**21**	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	0.070	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.53	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	0.14	1	ND	ND	ND	3.4	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	0.23	1	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.23	1	ND	ND	ND	2.4	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.23	1	ND	ND	ND	**11**	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.23	1	ND	ND	ND	1.0	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	0.23	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.23	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
2-Butanone	ug/L	12/05/94	100	100	ND	10	ND	ND	--	--	--	--	ND	--
NC 2L = 4000 ug/L	ug/L	02/14/95	100	100	ND	ND	ND	ND	--	--	--	--	ND	--
EPA MCL = No Standard	ug/L	04/03/95	100	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	100	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	100	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	100	100	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	100	100	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	100	100	ND	46	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	100	100	ND	220	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	100	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	100	100	ND	670	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	100	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	100	100	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	100	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	100	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	100	100	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	100	100	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	0.85	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	0.44	100	ND	ND	1.68 J	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	0.44	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	1.0	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1.0	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1.0	100	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1.0	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1.3	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1.3	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1.3	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1.3	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1.3	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	1.3	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	1.3	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	1.3	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
4-Methyl-2-pentanone	ug/L	12/05/94	50	50	ND	16	ND	ND	--	--	--	--	ND	--
SWS GPS = 560 ug/L	ug/L	02/14/95	50	50	ND	ND	ND	ND	--	--	--	--	ND	--
EPA MCL = 5 ug/L	ug/L	04/03/95	50	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	50	50	ND	20	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	50	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/24/96	50	50	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	50	50	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/97	50	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	05/14/98	50	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	50	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	50	50	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	100	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	100	100	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	100	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	100	100	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	50	100	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	50	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	50	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	50	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	50	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	100	100	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	100	100	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	1.1	100	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	1.1	100	ND	ND	ND	ND	ND	ND	ND	ND	--	ND

Golder Associates

TABLE 4

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	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	5	--	--	--	--	--	--	--	--	--	--
NC 2L = 6 ug/L	ug/L	02/14/95	5	5	--	--	--	--	--	--	--	--	--	--
EPA MCL = No Standard	ug/L	04/03/95	5	5	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	5	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5	5	--	--	--	--	--	--	--	--	--	--
	ug/L	10/24/96	5	5	ND	--	ND	ND	--	--	--	--	ND	--
	ug/L	04/15/97	5	5	--	2	--	--	--	--	--	--	--	--
	ug/L	10/29/97	5	5	ND	ND	2	ND	--	--	--	--	ND	--
	ug/L	05/14/98	5	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/11/98	5	5	ND	**9**	ND	ND	--	--	--	--	ND	--
	ug/L	06/04/99	5	5	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/29/99	10	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/20/00	10	10	ND	ND	ND	ND	ND	--	--	--	ND	--
	ug/L	11/07/00	10	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	02/27/01	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	05/15/01	10	10	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/16/01	10	10	ND	ND	ND	ND	--	ND	--	--	ND	--
	ug/L	04/24/02	10	10	ND	**7**	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/01/02	10	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/09/03	10	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	0.13	10	ND	**7**	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	10	10	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	10	ND	6	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	10	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	10	ND	**8**	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	10	ND	6	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	10	ND	6	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	10	ND	ND	0.66 J	0.57 J	ND	ND	--	--	ND	ND
	ug/L	10/02/07	10	10	ND	3.04	1.49	0.75	ND	ND	--	--	ND	ND
	ug/L	04/03/08	10	10	ND	ND	ND	0.76 J	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	10	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	0.39	10	ND	ND	ND	0.55 J	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	0.086	10	ND	Dry	ND	ND	--	--	--	--	--	ND
	ug/L	09/23/10	--	10	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	0.46	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	0.11	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	0.11	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/27/14	0.11	10	ND	ND	ND	ND	--	--	--	--	--	ND
Tetrachloroethene (PCE)	ug/L	12/05/94	5	1	ND	ND	**6.6**	**9**	--	--	--	--	ND	--
NC 2L = 0.7 ug/L	ug/L	02/14/95	5	1	ND	ND	**7**	**7**	--	--	--	--	**6**	--
EPA MCL = 5 ug/L	ug/L	04/03/95	5	1	ND	ND	**6.3**	ND	--	--	--	--	**6**	--
	ug/L	10/30/95	5	1	ND	ND	ND	ND	--	--	--	--	**5**	--
	ug/L	04/08/96	5	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	5	1	ND	ND	ND	**52**	ND	ND	--	--	**6.96**	--
	ug/L	05/25/05	5	1	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	1	ND	ND	ND	**16.2**	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	1	ND	ND	ND	**10**	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	1	ND	ND	ND	**21**	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	1	ND	ND	ND	**28.8**	ND	ND	--	--	**2.17**	ND
	ug/L	10/02/07	5	1	ND	ND	ND	**42.1**	ND	ND	--	--	**1.79 J**	ND
	ug/L	04/03/08	5	1	ND	ND	ND	**47.9**	ND	ND	ND	ND	**2.32 J**	ND
	ug/L	10/29/08	5	1	ND	ND	ND	**48.5**	ND	ND	ND	ND	**1.98**	ND
	ug/L	03/24/09	0.36	1	ND	ND	ND	**8.7**	ND	ND	ND	ND	**2.7**	ND
	ug/L	09/22/09	0.36	1	ND	ND	ND	**25**	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	0.099	1	ND	Dry	ND	**0.80 J**	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.36	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	0.73	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	0.73	1	ND	ND	ND	**2.8**	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	0.17	1	ND	ND	ND	**1.7**	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.17	1	ND	ND	ND	**3.9**	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.17	1	ND	ND	ND	**11**	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.17	1	ND	ND	ND	**2.8**	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	0.17	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.17	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
Toluene	ug/L	12/05/94	5	1	ND	5	ND	ND	--	--	--	--	ND	--
NC 2L = 600 ug/L	ug/L	02/14/95	5	1	ND	7	ND	ND	--	--	--	--	ND	--
EPA MCL = 1000 ug/L	ug/L	04/03/95	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5	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	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/20/03	5	1	ND	5	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/24/04	5	1	ND	**878**	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	5	1	ND	**1220**	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	1	ND	132	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	1	ND	16	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	1	ND	12	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	1	ND	0.3 J	ND	1.05	ND	ND	--	--	ND	ND
	ug/L	10/02/07	5	1	ND	1.08 J	0.11 J	1.62 J	ND	ND	--	--	ND	ND
	ug/L	04/03/08	5	1	ND	0.11 B	ND	1.30 B	ND	ND	ND	ND	ND	0.60 J
	ug/L	10/29/08	5	1	ND	4.33	ND	0.99 J	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	0.27	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.27	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	0.053	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.27	1	ND	3.1	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	0.85	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	0.85	1	ND	2.8	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.14	1	ND	3.8	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.14	1	ND	75	ND	ND	ND	2.0	ND	ND	--	ND
1,1,1-Trichloroethane	ug/L	12/05/94	5	1	ND	ND	--	ND	--	--	--	--	--	--
NC 2L = 200 ug/L	ug/L	02/14/95	5	1	ND	ND	--	ND	--	--	--	--	--	--
EPA MCL = 200 ug/L	ug/L	04/03/95	5	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	5	1	ND	ND	--	ND	--	--	--	--	--	--
	ug/L	03/24/04	5	1	ND	ND	--	ND	--	--	--	--	--	--
	ug/L	10/27/04	5	1	ND	ND	--	ND	--	--	--	--	--	--
	ug/L	05/25/05	5	1	ND	ND	--	--	--	--	--	--	ND	--
	ug/L	10/04/05	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	5	1	ND	ND	ND	0.18 J	ND	ND	--	--	ND	ND
	ug/L	04/03/08	5	1	ND	ND	ND	0.23 J	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	5	1	ND	ND	ND	0.13 J	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	0.27	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.27	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	0.15	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.27	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	0.65	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	0.65	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	0.12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.12	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.12	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	0.12	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.12	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND

Golder Associates

TABLE 4

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	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	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 3 ug/L	ug/L	02/14/95	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
EPA MCL = 5 ug/L	ug/L	04/03/95	5	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	5	1	ND	ND	ND	**13**	ND	--	--	--	ND	--
	ug/L	04/09/03	5	1	ND	ND	ND	**27**	ND	--	--	--	ND	--
	ug/L	10/20/03	5	1	ND	ND	ND	**26**	ND	--	--	--	ND	--
	ug/L	03/24/04	5	1	ND	ND	ND	**13**	ND	--	--	--	ND	--
	ug/L	10/27/04	5	1	ND	ND	ND	**17.5**	ND	--	--	--	ND	--
	ug/L	05/25/05	5	1	ND	ND	ND	--	ND	--	--	--	ND	--
	ug/L	10/04/05	5	1	ND	ND	ND	**5**	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	1	ND	ND	ND	**7**	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	1	ND	ND	0.48 J	**12**	ND	0.31 J	--	--	ND	ND
	ug/L	10/02/07	5	1	ND	ND	0.41 J	**15.5**	ND	0.3 J	--	--	ND	ND
	ug/L	04/03/08	5	1	ND	ND	0.47 J	**18.1**	ND	0.28 J	0.30 J	ND	ND	ND
	ug/L	10/29/08	5	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	0.38	1	ND	ND	ND	**3.1**	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.38	1	ND	ND	ND	**9.5**	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	0.13	1	ND	Dry	ND	ND	ND	ND	0.44 J	ND	--	ND
	ug/L	09/23/10	0.38	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	0.72	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	0.72	1	ND	ND	ND	1.1	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	0.15	1	ND	ND	ND	0.70 J	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.15	1	ND	ND	ND	1.6	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.15	1	ND	ND	ND	**3.9**	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.15	1	ND	ND	ND	1.3	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	0.15	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.15	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
1,1,2-Trichloroethane	ug/L	12/05/94	0.2	1	ND	ND	ND	ND	--	--	--	--	ND	--
SWS GPS = 0.6 ug/L	ug/L	02/14/95	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
EPA MCL = 5 ug/L	ug/L	04/03/95	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5	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	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	1	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	04/03/08	5	1	ND	ND	ND	**2.77**	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	0.37	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.37	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	0.068	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.37	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	0.66	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	0.66	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.14	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
Trichlorofluoromethane	ug/L	12/05/94	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 2000 ug/L	ug/L	02/14/95	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
EPA MCL = No Standard	ug/L	04/03/95	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	10/30/95	5	1	ND	ND	ND	ND	--	--	--	--	ND	--
	ug/L	04/08/96	5	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	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	1	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	10/02/07	5	1	ND	ND	ND	ND	ND	ND	--	--	2.23 J	ND
	ug/L	04/03/08	5	1	ND	ND	ND	ND	ND	ND	ND	ND	1.63 J	ND
	ug/L	10/29/08	5	1	ND	ND	ND	ND	ND	ND	ND	ND	4.43	ND
	ug/L	03/24/09	0.28	1	ND	ND	ND	ND	ND	ND	ND	ND	2.2	ND
	ug/L	09/22/09	0.28	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	0.15	1	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.28	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	0.66	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	0.66	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	0.24	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.24	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.24	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.24	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	0.24	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.24	1	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
Vinyl acetate	ug/L	12/05/94	--	50	ND	ND	ND	ND	--	--	--	--	ND	--
SWS GPS = 88 ug/L	ug/L	02/14/95	--	50	ND	ND	ND	ND	--	--	--	--	ND	--
EPA MCL = No Standard	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	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	0.98	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.98	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	0.98	50	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.98	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	0.95	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	0.95	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	0.95	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.95	50	ND	ND	ND	3.2 J	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.95	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.95	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	0.95	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.95	50	ND	ND	ND	ND	ND	ND	ND	ND	--	ND

Golder Associates

TABLE 4

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	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	10	1	ND	ND	ND	ND	--	--	--	--	ND	--
NC 2L = 0.03 ug/L	ug/L	02/14/95	10	1	ND	ND	ND	ND	--	--	--	--	ND	--
EPA MCL = 2 ug/L	ug/L	04/03/95	10	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	10	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/27/04	10	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	10	1	ND	ND	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	10	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	10	1	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	10	1	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	ug/L	03/21/07	10	1	ND	**0.43 J**	**2.35**	ND	ND	**0.94 J**	--	--	ND	ND
	ug/L	10/02/07	10	1	ND	**1.03 J**	**2.68 J**	**0.31 J**	ND	**0.89 J**	--	--	ND	ND
	ug/L	04/03/08	10	1	ND	ND	**2.94 J**	ND	ND	**0.98 J**	**0.59 J**	ND	ND	ND
	ug/L	10/29/08	10	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	0.30	1	ND	ND	**1.5**	ND	ND	**0.60 J**	**0.53 J**	ND	ND	ND
	ug/L	09/22/09	0.30	1	ND	ND	**1.4**	ND	ND	**0.67 J**	ND	ND	--	ND
	ug/L	03/22/10	0.083	1	ND	Dry	**1.2**	ND	ND	**0.60 J**	ND	ND	--	ND
	ug/L	09/23/10	0.30	1	ND	ND	**1.2**	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	0.60	1	ND	ND	**1.3**	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	0.60	1	ND	ND	**1.5**	ND	ND	**0.76 J**	ND	ND	--	ND
	ug/L	03/21/12	0.32	1	ND	ND	**0.88 J**	ND	ND	ND	**0.55 J**	ND	ND	ND
	ug/L	09/20/12	0.32	1	ND	ND	ND	ND	ND	**0.57 J**	**0.61 J**	ND	--	ND
	ug/L	03/20/13	0.32	1	ND	ND	**1.0**	**0.77 J**	ND	**0.50 J**	**0.49 J**	ND	ND	ND
	ug/L	09/18/13	0.32	1	ND	ND	**0.81 J**	ND	ND	**0.48 J**	**0.48 J**	ND	--	ND
	ug/L	03/27/14	0.32	1	ND	ND	**1.1**	ND	ND	**0.64 J**	ND	ND	ND	ND
	ug/L	09/18/14	0.32	1	ND	ND	**1.1**	ND	ND	**0.54 J**	ND	ND	--	ND
Xylenes (Total)	ug/L	12/05/94	5	5	ND	70	ND	130		--	--	--	ND	--
NC 2L = 500 ug/L	ug/L	02/14/95	5	5	ND	68	ND	ND	--	--	--	--	ND	--
EPA MCL = 10000 ug/L	ug/L	04/03/95	5	5	ND	45	ND	47	--	--	--	--	ND	--
	ug/L	10/30/95	5	5	ND	40	ND	40	--	--	--	--	ND	--
	ug/L	04/08/96	5	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	5	ND	70	ND	18	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	5	ND	55	ND	--	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	5	ND	81	ND	12	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	5	ND	48	ND	12	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	5	ND	59	ND	14	ND	ND	--	--	ND	ND
	ug/L	03/21/07	5	5	ND	2.74	ND	29.5	ND	ND	--	--	ND	ND
	ug/L	10/02/07	5	5	ND	4.54	ND	34	ND	ND	--	--	ND	ND
	ug/L	04/03/08	5	5	ND	ND	ND	40.6	ND	ND	ND	ND	ND	ND
	ug/L	10/29/08	5	5	ND	0.86 J	ND	39.8	ND	ND	ND	ND	ND	ND
	ug/L	03/24/09	0.40	5	ND	ND	ND	8.3	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.40	5	ND	ND	ND	19	ND	ND	ND	ND	--	ND
	ug/L	03/22/10	0.22	5	ND	Dry	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/23/10	0.40	5	ND	5.4	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	03/16/11	2.1	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
	ug/L	09/21/11	2.1	5	ND	3.6 J	ND	2.5 J	ND	ND	ND	ND	--	ND
	ug/L	03/21/12	0.45	5	ND	ND	ND	0.98 J	ND	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.45	5	ND	ND	ND	2.2 J	ND	ND	ND	ND	--	ND
	ug/L	03/20/13	0.45	5	ND	ND	ND	6.3	ND	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.45	5	ND	0.81 J	ND	1.8 J	ND	ND	ND	ND	--	ND
	ug/L	03/27/14	0.45	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.45	5	ND	ND	ND	ND	ND	ND	ND	ND	--	ND
2-Methylphenol	ug/L	12/05/94	5	--	--	--	--	--	--	--	--	--	--	--
SWS GPS = 400 ug/L	ug/L	02/14/95	5	--	--	--	--	--	--	--	--	--	--	--
EPA MCL = No Standard	ug/L	04/03/95	5	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	5	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/08/96	5	--	--	--	--	--	--	--	--	--	--	--
	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	5	--	ND	**2240**	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	--	ND	278	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	--	ND	28.6	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	82.8	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/21/07	5	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/02/07	5	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/03/08	5	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/30/08	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	ug/L	03/24/09	2.0	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	2.0	10	ND	Dry	ND	ND	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	1.4	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	1.4	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	1.4	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/27/14	1.4	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/14	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 4

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	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	
Diethylphthalate	ug/L	12/05/94	5	--	--	--	--	--	--	--	--	--	--	--
NC 2L = 6000 ug/L	ug/L	02/14/95	5	--	--	--	--	--	--	--	--	--	--	--
EPA MCL = No Standard	ug/L	04/03/95	5	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	5	--	--	--	--	--	--	--	--	--	--	--
	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	5	--	ND	35.9	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	--	ND	**140**	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	--	ND	**548**	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	--	ND	**101**	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	--	ND	86.6	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/21/07	5	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/02/07	5	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/03/08	5	--	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	1.3	10	ND	ND	ND	ND	ND	ND	1.5 J	ND	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	0.61	10	ND	Dry	ND	ND	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	2.1	6000	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	2.1	6000	ND	3.1 B	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	2.1	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/27/14	2.1	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/14	--	--	--	--	--	--	--	--	--	--	--	--
2,4-dimethylphenol	ug/L	12/05/94	5	--	--	--	--	--	--	--	--	--	--	--
NC 2L = 100 ug/L	ug/L	02/14/95	5	--	--	--	--	--	--	--	--	--	--	--
EPA MCL = No Standard	ug/L	04/03/95	5	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	5	--	--	--	--	--	--	--	--	--	--	--
	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	5	--	ND	35.9	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	--	ND	**140**	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	--	ND	**548**	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	--	ND	**101**	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	--	ND	86.6	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/21/07	5	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/02/07	5	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/03/08	5	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/30/08	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	ug/L	03/24/09	3.0	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	2.6	10	ND	Dry	ND	ND	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	1.3	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	1.3	10	ND	4.0 J	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	1.3	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/27/14	1.3	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/14	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate	ug/L	12/05/94	5	--	--	--	--	--	--	--	--	--	--	--
NC 2L = 3 ug/L	ug/L	02/14/95	5	--	--	--	--	--	--	--	--	--	--	--
EPA MCL = 6 ug/L	ug/L	04/03/95	5	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	5	--	--	--	--	--	--	--	--	--	--	--
	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	5	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	--	ND	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	--
	ug/L	03/21/07	5	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/02/07	5	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/03/08	5	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/30/08	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	ug/L	03/24/09	1.9	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/22/10	2.6	15	ND	Dry	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	1.7	15	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/21/12	1.7	15	1.8 B	7.0 B	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	1.7	15	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/27/14	1.7	15	ND	**3.3 J**	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/14	1.7	15	ND	ND	ND	ND	--	--	--	--	--	ND
Di-n-octylphthalate	ug/L	12/05/94	5	--	--	--	--	--	--	--	--	--	--	--
NC 2L = 100 ug/L	ug/L	02/14/95	5	--	--	--	--	--	--	--	--	--	--	--
EPA MCL = No Standard	ug/L	04/03/95	5	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	5	--	--	--	--	--	--	--	--	--	--	--
	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	5	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	--	ND	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	--
	ug/L	03/21/07	5	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/02/07	5	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/03/08	5	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/30/08	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	ug/L	03/24/09	2.0	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/22/10	1.4	10	ND	Dry	ND	ND	--	--	--	--	--	ND
	ug/L	03/16/11	3.1	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/21/12	3.1	10	ND	6.6 J	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	-	--	--	--	--	--
	ug/L	03/20/13	3.1	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/27/14	3.1	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/14	--	--	--	--	--	--	--	--	--	--	--	--

Golder Associates

TABLE 4

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	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	
Phenol	ug/L	12/05/94	5	--	--	--	--	--	--	--	--	--	--	--
NC 2L = 30 ug/L	ug/L	02/14/95	5	--	--	--	--	--	--	--	--	--	--	--
EPA MCL = No Standard	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	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	5	--	ND	**16400**	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	--	ND	**105**	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	--	ND	26.8	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	--
	ug/L	03/21/07	5	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/02/07	5	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/03/08	5	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/30/08	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	ug/L	03/24/09	1.5	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	1.2	10	ND	Dry	ND	ND	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	1.4	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	1.4	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	1.4	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/27/14	1.4	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/14	--	--	--	--	--	--	--	--	--	--	--	--
3 &4-methylphenol	ug/L	12/05/94	5	--	--	--	--	--	--	--	--	--	--	--
NC 2L Standard = 400/40 ug/L	ug/L	02/14/95	5	--	--	--	--	--	--	--	--	--	--	--
EPA MCL = No Standard	ug/L	04/03/95	5	--	--	--	--	--	--	--	--	--	--	--
	ug/L	10/30/95	5	--	--	--	--	--	--	--	--	--	--	--
	ug/L	04/08/96	5	--	--	--	--	--	--	--	--	--	--	--
	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	5	--	ND	**2880**	ND	ND	ND	ND	--	--	ND	--
	ug/L	05/25/05	5	--	ND	**398**	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/05	5	--	ND	**109**	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/25/06	5	--	ND	25.4	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/04/06	5	--	ND	16.4	ND	ND	ND	ND	--	--	ND	--
	ug/L	03/21/07	5	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/02/07	5	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	04/03/08	5	--	ND	ND	ND	ND	ND	ND	--	--	ND	--
	ug/L	10/30/08	5	--	ND	4.26 J	ND	ND	ND	ND	ND	ND	ND	--
	ug/L	03/24/09	1.9	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/22/09	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/22/10	1.8	10	ND	Dry	ND	ND	--	--	--	--	--	ND
	ug/L	09/23/10	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/16/11	1.6	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/21/12	1.6	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/20/13	1.6	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/27/14	1.6	10	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/14	--	--	--	--	--	--	--	--	--	--	--	--
2,4-D	ug/L	12/05/94	--	--	--	--	--	--	--	--	--	--	--	--
NC 2L = 70 ug/L	ug/L	02/14/95	--	--	--	--	--	--	--	--	--	--	--	--
EPA MCL = 70 ug/L	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	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	0.091	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/22/10	0.091	2	ND	Dry	ND	ND	-	-	-	-	--	ND
	ug/L	03/16/11	0.15	2	ND	ND	ND	ND	-	-	-	-	--	ND
	ug/L	09/21/11	--	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/21/12	0.16	2	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/20/12	--	--	--	--	--	--	--	--	--	--	--	ND
	ug/L	03/20/13	0.16	2	ND	ND	0.75 J	ND	--	--	--	--	--	ND
	ug/L	09/18/13	--	--	--	--	--	--	--	--	--	--	--	--
	ug/L	03/27/14	0.27	2	ND	ND	ND	ND	--	--	--	--	--	ND
	ug/L	09/18/14	--	--	--	--	--	--	--	--	--	--	--	ND

Notes:

ug/L = micrograms per liter
mg/L = milligrams per liter
ND = Not detected at the stated reporting limit
J = estimated concentration
B = Blank-qualified result
-- = no data available
MDL = laboratory method detection limit
Blanks = field, trip and method blanks
Bold = concentrations above the NC 2L Groundwater Standards or Solid Waste Section Groundwater Protection Standards (SWS GPS) have been bolded
Shaded = concentrations above the EPA Maximum Contaminant Level (MCL) has 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 Field Parameters for MSW Monitoring Wells
Henderson County Closed MSW Landfill, Permit No. 45-01

Detected Monitoring Parameter	Units	Date	Upgradient Compliance Well	Downgradient Compliance Wells			Assessment Wells				TVA Well
			MW-5	MW-6	MW-7	MW-8	AMW-1S	AMW-1D	AMW-2S	AMW-2D	MW-9
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	--
	S.U.	03/27/14	5.29	6.24	5.46	5.94	6.33	6.31	5.87	7.35	4.42
	S.U.	09/18/14	6.49	6.63	6.50	6.14	6.15	6.49	7.40	6.77	--
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	--
	uS/cm	03/27/14	171	391	770	1047	254	694	290	176	195
	uS/cm	09/18/14	180	1797	649	605	200	749	347	114	--
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	--
	Celsius	03/27/14	12.7	13.4	15.4	15.3	13.4	13.4	11.0	10.9	11.3
	Celsius	09/18/14	14.5	18.6	17.7	16.8	17.2	17.4	18.6	19.2	--
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	--
	NTU	03/27/14	2.18	47.4	1.67	99.4	1.66	1.48	36.5	2.02	2.83
	NTU	09/18/14	0.75	65.4	0.58	1.80	1.41	0.55	4.41	0.63	--

Notes:

NTU = Nephelometric Turbidity Units
mV = millivolts
S.U. = Standard Units
-- = no data available
1) Historical data prior to March 2009 provided by Henderson County and CDM.

TABLE 6

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Antimony	ug/L	12/05/94	30	6	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	30	6	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	30	6	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	30	6	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	30	6	--	--	--	ND	--	--	--
	ug/L	10/24/96	30	6	ND	ND	ND	ND	--	--	--
	ug/L	04/15/97	30	6	ND	ND	ND	5	--	--	--
	ug/L	10/29/97	30	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	30	6	ND	--	ND	ND	--	--	--
	ug/L	04/24/02	30	6	ND	--	ND	ND	--	--	--
	ug/L	10/01/02	30	6	ND	--	ND	ND	--	--	--
	ug/L	04/09/03	30	6	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	30	6	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	30	6	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	30	6	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	30	6	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	30	6	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	30	6	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	30	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	6	6	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	0.05	6	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	0.68	6	ND	ND	ND	ND	--	--	ND
	ug/L	10/29/08	0.68	6	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	0.68	6	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.0730	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.220	6	ND	ND	0.521 J	ND	--	--	ND
	ug/L	09/23/10	0.220	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.220	6	ND	ND	ND	ND	--	--	ND
	ug/L	09/21/11	0.220	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/12	0.220	6	ND	ND	ND	ND	--	--	ND
	ug/L	09/20/12	0.220	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/20/13	0.220	6	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/13	0.220	6	ND	ND	ND	ND	--	--	ND
	ug/L	03/27/14	0.220	6	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/14	0.220	6	ND	ND	ND	ND	--	--	ND
Arsenic	ug/L	12/05/94	10	10	ND	ND	ND	ND	--	--	--
SW Standard = 50 ug/L	ug/L	02/14/95	10	10	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	10	10	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	10	10	ND	12	ND	ND	--	--	--
	ug/L	04/08/96	10	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	10	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	10	10	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	10	10	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	10	10	ND	ND	11.7	ND	--	--	--
	ug/L	05/25/05	10	10	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	10	10	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	10	10	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	10	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	10	10	ND	ND	0.56 J	1.57 J	--	--	ND
	ug/L	10/02/07	10	10	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	10	10	ND	ND	4.8 J	2.52 J	--	--	ND
	ug/L	10/29/08	10	10	2.5 J	--	4.65 J	4.14 J	--	--	ND
	ug/L	03/24/09	2.8	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	2.80	10	4.69 B	2.94 B	3.11 B	ND	--	--	2.90 J
	ug/L	03/22/10	2.80	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/23/10	2.80	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	2.80	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/21/11	2.80	10	ND	ND	4.96 J	ND	--	--	ND
	ug/L	03/21/12	2.80	10	ND	4.18 J	ND	ND	--	--	ND
	ug/L	09/20/12	2.80	10	ND	ND	ND	ND	--	--	3.27 J
	ug/L	03/20/13	2.80	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/13	5.40	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/27/14	5.40	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/14	5.40	10	ND	ND	ND	ND	--	--	ND

TABLE 6

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1		BR-2		BR-3		SW-1		TSW-1		TSW-2		Blanks	
Barium	ug/L	12/05/94	500	100	ND		ND		ND		ND		--		--		--	
No SW Standard	ug/L	02/14/95	500	100	131		ND		--		ND		--		--		--	
	ug/L	04/03/95	500	100	ND		ND		ND		ND		--		--		--	
	ug/L	10/30/95	500	100	ND		ND		ND		ND		--		--		--	
	ug/L	04/08/96	500	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	500	100	ND		--		ND		ND		--		--		--	
	ug/L	10/20/03	500	100	ND		ND		ND		ND		--		--		--	
	ug/L	03/24/04	500	100	ND		ND		ND		ND		--		--		--	
	ug/L	10/27/04	500	100	ND		ND		ND		ND		--		--		--	
	ug/L	05/25/05	500	100	ND		ND		ND		ND		--		--		--	
	ug/L	10/04/05	500	100	ND		4310		ND		ND		--		--		--	
	ug/L	04/25/06	500	100	ND		ND		ND		ND		--		--		--	
	ug/L	10/04/06	500	100	ND		ND		ND		ND		--		--		ND	
	ug/L	03/21/07	500	100	22.7	J	193		342		36.3	J	--		--		ND	
	ug/L	10/02/07	500	100	77.5	B	266		697		42.2	B	--		--		16.1	J
	ug/L	04/03/08	500	100	64.6	J	171		504		47.9	B	--		--		10.1	J
	ug/L	10/29/08	500	100	78.6	B	--		732	B	65.1	B	--		--		ND	
	ug/L	03/24/09	4.20	100	73.2	J	273		575		42.1	J	--		--		ND	
	ug/L	09/22/09	1.00	100	75.6	J	130		253		64.8	J	--		--		ND	
	ug/L	03/22/10	1.00	100	62.7	J	144		83.3	J	58.1	J	--		--		1.54	J
	ug/L	09/23/10	1.00	100	45.6	J	163		361		26.1	J	--		--		ND	
	ug/L	03/16/11	1.00	100	89.8	J	265		199		63.2	J	--		--		ND	
	ug/L	09/21/11	1.00	100	65.3	J	200		253		52.5	J	--		--		ND	
	ug/L	03/21/12	1.00	100	46.2	J	240		323		38.0	J	--		--		ND	
	ug/L	09/20/12	1.00	100	70.1	J	219		439		43.4	J	--		--		ND	
	ug/L	03/20/13	1.00	100	41.8	J	171		194		42.0	J	--		--		1.34	J
	ug/L	09/18/13	1.00	100	49.8	J	220		162		35.1	J	--		--		1.08	J
	ug/L	03/27/14	1.00	100	53.9	J	168		183		47.2	J	--		--		ND	
	ug/L	09/18/14	1.00	100	25.0	J	128		185		30.2	J	--		--		1.96	J
Beryllium	ug/L	12/05/94	2	1	ND		ND		ND		ND		--		--		--	
SW Standard = 6.5 ug/L	ug/L	02/14/95	2	1	ND		ND		--		ND		--		--		--	
	ug/L	04/03/95	2	1	ND		ND		ND		ND		--		--		--	
	ug/L	10/30/95	2	1	ND		ND		ND		ND		--		--		--	
	ug/L	04/08/96	2	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	2	1	ND		ND		ND		ND		--		--		--	
	ug/L	10/04/05	2	1	ND		4.07		ND		ND		--		--		--	
	ug/L	04/25/06	2	1	ND		ND		ND		ND		--		--		--	
	ug/L	10/04/06	2	1	ND		ND		ND		ND		--		--		ND	
	ug/L	03/21/07	2	1	ND		ND		ND		ND		--		--		ND	
	ug/L	10/02/07	2	1	1.97	B	2.28	B	3.9	B	1.97	B	--		--		6.01	
	ug/L	04/03/08	2	1	1.93		5.01		2.80		2.73		--		--		ND	
	ug/L	10/29/08	2	1	6.46	B	--		10.2	B	7.9	B	--		--		ND	
	ug/L	03/24/09	0.08	1	ND		ND		1.01		ND		--		--		ND	
	ug/L	09/22/09	0.100	1	ND		ND		0.656	J	ND		--		--		ND	
	ug/L	03/22/10	0.100	1	ND		ND		0.318	J	ND		--		--		ND	
	ug/L	09/23/10	0.100	1	ND		ND		0.820	J	ND		--		--		ND	
	ug/L	03/16/11	0.100	1	ND		ND		0.543	J	ND		--		--		ND	
	ug/L	09/21/11	0.100	1	ND		ND		0.362	J	ND		--		--		ND	
	ug/L	03/21/12	0.100	1	ND		ND		0.736	J	ND		--		--		ND	
	ug/L	09/20/12	0.100	1	ND		ND		0.694	J	ND		--		--		ND	
	ug/L	03/20/13	0.100	1	ND		ND		0.227	J	ND		--		--		ND	
	ug/L	09/18/13	0.100	1	ND		ND		ND		ND		--		--		ND	
	ug/L	03/27/14	0.100	1	ND		ND		0.222	J	ND		--		--		ND	
	ug/L	09/18/14	0.100	1	ND		ND		ND		ND		--		--		ND	

TABLE 6

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Cadmium	ug/L	12/05/94	1	1	ND	ND	ND	ND	--	--	--
SW Standard = 2 ug/L (N)	ug/L	02/14/95	1	1	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	1	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	1	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	1	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	1	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	1	1	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	1	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	1	1	ND	**111**	ND	ND	--	--	--
	ug/L	04/25/06	1	1	ND	ND	1.15	1.03	--	--	--
	ug/L	10/04/06	1	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	1	1	1.42 J	**2.71 J**	1.36 J	0.51 J	--	--	ND
	ug/L	10/02/07	1	1	ND	ND	1.31	ND	--	--	ND
	ug/L	04/03/08	1	1	ND	ND	1.1	ND	--	--	ND
	ug/L	10/29/08	1	1	ND	--	1.83	ND	--	--	ND
	ug/L	03/24/09	0.09	1	ND	ND	1.12	ND	--	--	ND
	ug/L	09/22/09	0.360	1	ND	ND	0.716 J	ND	--	--	ND
	ug/L	03/22/10	0.360	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/23/10	0.360	1	ND	ND	0.487 J	ND	--	--	ND
	ug/L	03/16/11	0.360	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/21/11	0.360	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/12	0.360	1	ND	ND	0.468 J	ND	--	--	ND
	ug/L	09/20/12	0.360	1	ND	ND	0.691 J	ND	--	--	ND
	ug/L	03/20/13	0.360	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/13	0.360	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/27/14	0.360	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/14	0.360	1	ND	ND	ND	ND	--	--	ND
Chromium	ug/L	12/05/94	10	10	ND	ND	ND	ND	--	--	--
SW Standard = 50 ug/L	ug/L	02/14/95	10	10	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	10	10	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	10	10	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	10	10	--	--	--	ND	--	--	--
	ug/L	10/24/96	10	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	10	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	10	10	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	10	10	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	10	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	10	10	1.44 J	3.02 J	2.38 J	2.86 J	--	--	ND
	ug/L	10/02/07	10	10	5.39 B	5.08 B	4.58 B	4.07 B	--	--	3.67 J
	ug/L	04/03/08	10	10	5.05 B	4.06 B	4.06 B	3.31 B	--	--	2.94 J
	ug/L	10/29/08	10	10	6.96 B	--	6.34 B	6.10 B	--	--	ND
	ug/L	03/24/09	0.7	10	2.0 J	3.4 J	1.9 J	1.4 J	--	--	ND
	ug/L	09/22/09	1.00	10	ND	1.83 J	ND	ND	--	--	ND
	ug/L	03/22/10	1.00	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/23/10	1.00	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	1.00	10	2.21 J	3.97 J	2.42 J	1.64 J	--	--	ND
	ug/L	09/21/11	1.00	10	1.29 J	3.44 J	1.78 J	1.06 J	--	--	ND
	ug/L	03/21/12	1.00	10	1.39 J	2.21 J	2.19 J	1.10 J	--	--	ND
	ug/L	09/20/12	1.00	10	ND	1.93 J	1.38 J	ND	--	--	ND
	ug/L	03/20/13	1.40	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/13	1.40	10	ND	1.92 J	ND	ND	--	--	ND
	ug/L	03/27/14	1.40	10	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/14	1.40	10	ND	ND	ND	ND	--	--	ND

TABLE 6

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1		BR-2		BR-3		SW-1		TSW-1	TSW-2	Blanks	
Cobalt	ug/L	12/05/94	10	10	ND		ND		ND		ND		--	--	--	
No SW Standard	ug/L	02/14/95	10	10	11		ND		--		ND		--	--	--	
	ug/L	04/03/95	10	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	10	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/08/96	10	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	10	ND		--		ND		ND		--	--	--	
	ug/L	10/20/03	10	10	ND		ND		ND		ND		--	--	--	
	ug/L	03/24/04	10	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/27/04	10	10	ND		ND		ND		ND		--	--	--	
	ug/L	05/25/05	10	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/05	10	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/25/06	10	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	10	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	10	10	2.52	J	3.56	J	4.76	J	ND		--	--	ND	
	ug/L	10/02/07	10	10	ND		ND		ND		ND		--	--	ND	
	ug/L	04/03/08	10	10	ND		5.32	J	3.66	J	ND		--	--	ND	
	ug/L	10/29/08	10	10	7.54	J	--		7.90	J	ND		--	--	ND	
	ug/L	03/24/09	0.6	10	3.9	J	4.8	J	4.8	J	1.0	J	--	--	ND	
	ug/L	09/22/09	1.10	10	1.21	J	5.16	J	1.90	J	ND		--	--	ND	
	ug/L	03/22/10	1.10	10	3.17	J	6.20	J	1.39	J	2.71	J	--	--	ND	
	ug/L	09/23/10	1.10	10	2.38	J	5.61	J	3.38	J	ND		--	--	ND	
	ug/L	03/16/11	1.10	10	1.94	J	5.87	J	1.82	J	1.85	J	--	--	ND	
	ug/L	09/21/11	1.10	10	3.22	J	9.89	J	3.13	J	2.29	J	--	--	ND	
	ug/L	03/21/12	1.10	10	2.44	J	8.93	J	2.84	J	1.71	J	--	--	ND	
	ug/L	09/20/12	1.10	10	2.52	J	8.43	J	3.31	J	1.12	J	--	--	ND	
	ug/L	03/20/13	1.10	10	1.77	J	3.49	J	2.03	J	ND		--	--	ND	
	ug/L	09/18/13	1.10	10	3.01	J	3.55	J	1.19	J	1.19	J	--	--	ND	
	ug/L	03/27/14	1.10	10	3.47	J	4.19	J	2.75	J	2.45	J	--	--	ND	
	ug/L	09/18/14	1.10	10	ND		1.96	J	1.58	J	ND		--	--	ND	
Copper	ug/L	12/05/94	200	10	ND		ND		ND		ND		--	--	--	
SW Standard = 7 ug/L[#]	ug/L	02/14/95	200	10	ND		ND		--		ND		--	--	--	
	ug/L	04/03/95	200	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	200	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/08/96	200	10	--		--		--		ND		--	--	--	
	ug/L	10/24/96	200	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/15/97	200	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/29/97	200	10	ND		--		ND		ND		--	--	--	
	ug/L	05/14/98	200	10	ND		ND		ND		ND		--	--	--	
	ug/L	11/11/98	200	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	200	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/05	200	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/25/06	200	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	200	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	200	10	4.32	J	4.93	J	3.97	J	4.23	J	--	--	ND	
	ug/L	10/02/07	200	10	5.94	B	6.24	B	5.64	B	6.01	B	--	--	6.41	J
	ug/L	04/03/08	200	10	4.96	B	4.27	B	4.53	B	5.38	B	--	--	4.46	J
	ug/L	10/29/08	200	10	6.95	B	--		5.85	B	10.3	B	--	--	ND	
	ug/L	03/24/09	0.81	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/22/09	1.60	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/22/10	1.60	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/23/10	1.60	10	ND		ND		2.15	J	ND		--	--	ND	
	ug/L	03/16/11	1.60	10	**9.17**	**J**	ND		4.73	J	2.13	J	--	--	ND	
	ug/L	09/21/11	1.60	10	ND		3.90	J	2.35	J	ND		--	--	ND	
	ug/L	03/21/12	1.60	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/20/12	1.60	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/20/13	1.60	10	ND		ND		1.60	J	ND		--	--	ND	
	ug/L	09/18/13	1.60	10	5.72	J	ND		ND		ND		--	--	ND	
	ug/L	03/27/14	1.60	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/18/14	1.60	10	ND		ND		ND		ND		--	--	ND	

TABLE 6

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1		BR-2		BR-3		SW-1		TSW-1	TSW-2	Blanks	
Lead	ug/L	12/05/94	10	10	ND		**38**		8		7		--	--	--	
SW Standard = 25 ug/L[#]	ug/L	02/14/95	10	10	ND		5		--		7		--	--	--	
	ug/L	04/03/95	10	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	10	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/08/96	10	10	--		--		--		ND		--	--	--	
	ug/L	10/24/96	10	10	ND		**110**		ND		ND		--	--	--	
	ug/L	04/15/97	10	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	10	ND		**242**		ND		ND		--	--	--	
	ug/L	04/25/06	10	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	10	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	10	10	ND		1.56	J	ND		ND		--	--	ND	
	ug/L	10/02/07	10	10	0.49	B	0.65	B	0.46	B	0.49	B	--	--	0.49	J
	ug/L	04/03/08	10	10	5.13	J	7.36	J	ND		ND		--	--	ND	
	ug/L	10/29/08	10	10	6.36	B	--		7.18	B	10.1	B	--	--	ND	
	ug/L	03/24/09	1.6	10	2.8	J	3.9	J	3.8	J	2.1	J	--	--	ND	
	ug/L	09/22/09	1.90	10	ND		2.33	J	ND		ND		--	--	ND	
	ug/L	03/22/10	1.90	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/23/10	1.90	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/16/11	1.90	10	4.31	J	2.33	J	3.29	J	ND		--	--	ND	
	ug/L	09/21/11	1.90	10	ND		8.03	J	2.33	J	ND		--	--	ND	
	ug/L	03/21/12	1.90	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/20/12	1.90	10	3.64	B	ND		2.28	B	3.19	B	--	--	2.70	J
	ug/L	03/20/13	1.90	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/18/13	2.10	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/27/14	2.10	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/18/14	2.10	10	ND		ND		ND		ND		--	--	ND	
Nickel	ug/L	12/05/94	50	50	ND		ND		ND		ND		--	--	--	
SW Standard = 88 ug/L (N)	ug/L	02/14/95	50	50	ND		ND		--		ND		--	--	--	
	ug/L	04/03/95	50	50	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	50	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	50	ND		ND		ND		ND		--	--	--	
	ug/L	03/24/04	50	50	ND		ND		ND		ND		--	--	--	
	ug/L	10/27/04	50	50	ND		ND		ND		ND		--	--	--	
	ug/L	05/25/05	50	50	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/05	50	50	ND		ND		ND		ND		--	--	--	
	ug/L	04/25/06	50	50	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	50	50	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	50	50	0.61	J	ND		5.04	J	ND		--	--	ND	
	ug/L	10/02/07	50	50	2.25	B	3.79	B	7.68	J	1.67	B	--	--	0.8	J
	ug/L	04/03/08	50	50	ND		ND		ND		ND		--	--	ND	
	ug/L	10/29/08	50	50	ND		--		8.09	J	ND		--	--	ND	
	ug/L	03/24/09	0.6	50	2.0	J	2.5	J	4.2	J	1.0	J	--	--	ND	
	ug/L	09/22/09	1.80	50	2.17	J	3.90	J	2.65	J	ND		--	--	ND	
	ug/L	03/22/10	1.80	50	ND		3.21	J	ND		ND		--	--	ND	
	ug/L	09/23/10	1.80	50	ND		2.24	J	ND		ND		--	--	ND	
	ug/L	03/16/11	1.80	50	2.92	J	ND		2.04	J	ND		--	--	ND	
	ug/L	09/21/11	1.80	50	ND		2.97	J	2.71	J	ND		--	--	ND	
	ug/L	03/21/12	1.80	50	ND		2.31	J	2.51	J	ND		--	--	ND	
	ug/L	09/20/12	1.80	50	ND		1.82	J	2.80	J	ND		--	--	ND	
	ug/L	03/20/13	1.80	50	ND		ND		2.04	J	ND		--	--	ND	
	ug/L	09/18/13	1.80	50	ND		2.51	J	ND		ND		--	--	ND	
	ug/L	03/27/14	1.80	50	ND		2.16	J	2.23	J	ND		--	--	ND	
	ug/L	09/18/14	1.80	50	ND		ND		ND		ND		--	--	ND	

TABLE 6

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1		BR-2		BR-3		SW-1		TSW-1	TSW-2	Blanks	
Selenium	ug/L	12/05/94	20	10	ND		ND		ND		ND		--	--	--	
SW Standard = 5 ug/L	ug/L	02/14/95	20	10	ND		ND		--		ND		--	--	--	
	ug/L	04/03/95	20	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/30/95	20	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	20	10	ND		ND		ND		ND		--	--	--	
	ug/L	05/25/05	20	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/05	20	10	ND		ND		ND		ND		--	--	--	
	ug/L	04/25/06	20	10	ND		ND		ND		ND		--	--	--	
	ug/L	10/04/06	20	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/07	20	10	ND		ND		ND		ND		--	--	ND	
	ug/L	10/02/07	20	10	**10.4**		**8.22**	**J**	ND		**9.83**	**J**	--	--	ND	
	ug/L	04/03/08	20	10	ND		**7.73**	**J**	**7.75**	**J**	**8.67**	**J**	--	--	ND	
	ug/L	10/29/08	20	10	ND		--		ND		ND		--	--	ND	
	ug/L	03/24/09	3.4	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/22/09	2.70	10	3.17	B	ND		ND		6.01	B	--	--	6.41	J
	ug/L	03/22/10	0.830	10	ND		2.75	J	ND		ND		--	--	ND	
	ug/L	09/23/10	5.20	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/16/11	2.70	10	ND		ND		ND		3.09	B	--	--	3.32	J
	ug/L	09/21/11	2.70	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/12	2.70	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/20/12	2.70	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/20/13	4.50	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/18/13	5.00	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/27/14	5.00	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/18/14	5.00	10	ND		ND		ND		ND		--	--	ND	
Silver	ug/L	12/05/94	1.9	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	1.0	10	**1.3**	**J**	**2.5**	**J**	**2.4**	**J**	**1.3**	**J**	--	--	ND	
	ug/L	09/22/09	1.90	10	ND		**2.23**	**J**	ND		ND		--	--	ND	
	ug/L	03/22/10	1.90	10	ND		**2.89**	**J**	ND		ND		--	--	ND	
	ug/L	09/23/10	1.90	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/16/11	1.90	10	ND		**2.81**	**J**	ND		ND		--	--	ND	
	ug/L	09/21/11	1.90	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/21/12	1.90	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/20/12	1.90	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/20/13	1.90	10	1.94	B	2.72	B	ND		ND		--	--	2.11	J
	ug/L	09/18/13	1.90	10	ND		ND		ND		ND		--	--	ND	
	ug/L	03/27/14	1.90	10	ND		ND		ND		ND		--	--	ND	
	ug/L	09/18/14	1.90	10	ND		ND		ND		ND		--	--	ND	

TABLE 6

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Thallium	ug/L	12/05/94	200	5.5	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	200	5.5	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	200	5.5	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	200	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	200	5.5	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	200	5.5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	200	5.5	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	200	5.5	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	200	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	200	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	200	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	200	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	10/29/08	200	5.5	7.25	--	ND	ND	--	--	ND
	ug/L	03/24/09	0.036	5.5	ND	ND	ND	ND	--	--	0.092 J
	ug/L	09/22/09	0.110	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.110	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	09/23/10	0.110	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.110	5.5	0.465 J	0.415 J	0.192 J	0.675 J	--	--	ND
	ug/L	09/21/11	0.110	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/12	0.110	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	09/20/12	0.110	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	03/20/13	0.110	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/13	0.110	5.5	ND	ND	ND	ND	--	--	0.142 J
	ug/L	03/27/14	0.110	5.5	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/14	0.110	6	ND	ND	ND	ND	--	--	ND
Vanadium	ug/L	12/05/94	40	25	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	40	25	ND	ND	--	ND	--	--	--
	ug/L	04/03/95	40	25	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	40	25	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	40	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	40	25	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	40	25	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	40	25	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	40	25	ND	60.5	ND	ND	--	--	--
	ug/L	04/25/06	40	25	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	40	25	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	40	25	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	40	25	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	40	25	ND	4.61 J	ND	ND	--	--	ND
	ug/L	10/29/08	40	25	ND	--	2.04 J	2.59 J	--	--	ND
	ug/L	03/24/09	0.7	25	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	1.40	25	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	1.40	25	ND	ND	ND	ND	--	--	ND
	ug/L	09/23/10	1.40	25	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	1.40	25	4.70 J	ND	ND	ND	--	--	ND
	ug/L	09/21/11	1.40	25	ND	8.61 J	ND	ND	--	--	ND
	ug/L	03/21/12	1.40	25	ND	ND	ND	ND	--	--	ND
	ug/L	09/20/12	1.40	25	ND	ND	ND	ND	--	--	ND
	ug/L	03/20/13	1.40	25	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/13	1.40	25	ND	ND	ND	ND	--	--	0.142 J
	ug/L	03/27/14	1.40	25	ND	ND	ND	ND	--	--	ND
	ug/L	09/18/14	1.40	25	ND	ND	ND	ND	--	--	ND

TABLE 6

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Zinc	ug/L	12/05/94	50	10	16	27	26	40	--	--	--
SW Standard = 50 ug/L*	ug/L	02/14/95	50	10	30	**300**	--	**71**	--	--	--
	ug/L	04/03/95	50	10	10	ND	21	**51**	--	--	--
	ug/L	10/30/95	50	10	ND	11	31	ND	--	--	--
	ug/L	04/08/96	50	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	50	10	ND	487	ND	ND	--	--	--
	ug/L	04/25/06	50	10	ND	ND	107	ND	--	--	--
	ug/L	10/04/06	50	10	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	50	10	6.76 J	9.01 J	37	8.63 J	--	--	ND
	ug/L	10/02/07	50	10	5.22 J	15.3 J	24.4	24	--	--	ND
	ug/L	04/03/08	50	10	6.29 J	5.45 J	**52.5**	10.6	--	--	ND
	ug/L	10/29/08	50	10	9.19 J	--	37.6	29.4	--	--	ND
	ug/L	03/24/09	3.4	10	5.5 B	5.6 B	35.6	3.6 B	--	--	3.4 J
	ug/L	09/22/09	3.80	10	9.11 J	8.90 J	**71.4**	11.3	--	--	ND
	ug/L	03/22/10	3.80	10	11.4	6.16 J	24.9	9.02 J	--	--	ND
	ug/L	09/23/10	3.80	10	ND	4.03 J	46.1	18.8	--	--	ND
	ug/L	03/16/11	3.80	10	30.6	5.84 J	**53.8**	8.11 J	--	--	ND
	ug/L	09/21/11	3.80	10	6.85 J	22.1	**69.0**	ND	--	--	ND
	ug/L	03/21/12	3.80	10	ND	ND	22.7	ND	--	--	ND
	ug/L	09/20/12	3.80	10	ND	5.00 J	19.4	ND	--	--	ND
	ug/L	03/20/13	3.80	10	ND	6.72 J	35.9	ND	--	--	ND
	ug/L	09/18/13	3.80	10	9.22 J	4.03 J	12.5	ND	--	--	ND
	ug/L	03/27/14	3.80	10	ND	4.30 J	25.9	ND	--	--	ND
	ug/L	09/18/14	3.80	10	ND	5.11 J	9.98 J	ND	--	--	ND
Acetone	ug/L	12/05/94	100	100	ND	ND	ND	ND	--	--	--
SW Standard = 2000 ug/L	ug/L	02/14/95	100	100	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	100	100	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	100	100	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	100	100	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	100	100	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	100	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	100	ND	--	ND	ND	--	--	--
	ug/L	10/20/03	100	100	ND	ND	ND	ND	--	--	--
	ug/L	03/24/04	100	100	ND	ND	ND	ND	--	--	--
	ug/L	10/27/04	100	100	ND	ND	ND	ND	--	--	--
	ug/L	05/25/05	100	100	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	100	100	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	100	100	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	100	100	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	100	100	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	100	100	3.51 B	1.73 B	ND	ND	--	--	5.5 J
	ug/L	04/03/08	100	100	ND	ND	ND	ND	--	--	ND
	ug/L	10/29/08	100	100	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	1.5	100	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	1.5	100	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	1.5	100	2.3 J	ND	ND	2.5 J	--	--	ND
	ug/L	06/03/10	1.5	100	--	--	--	--	11 J	3.6 J	ND
	ug/L	09/23/10	1.5	100	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	1.2	100	ND	4.2 J	3.0 J	ND	13 J	ND	ND
	ug/L	09/21/11	1.2	100	ND	7.0 J	ND	ND	5.5 J	ND	ND
	ug/L	03/21/12	1.2	100	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	1.2	100	ND	7.4 B	ND	ND	dry	4.7 B	7.0 J
	ug/L	03/20/13	1.2	100	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	1.2	100	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/27/14	1.2	100	ND	ND	5.5 B	4.7 B	dry	ND	19 J
	ug/L	09/18/14	1.2	100	ND	ND	ND	ND	dry	ND	ND

TABLE 6

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Benzene	ug/L	12/05/94	0.2	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	0.20	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.20	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.050	1	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	0.050	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.20	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.68	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.68	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.15	1	ND	0.46 J	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.15	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.15	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.15	1	ND	ND	ND	ND	dry	ND	1.75 J
	ug/L	03/27/14	0.15	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.15	1	ND	ND	ND	ND	dry	ND	ND
Chlorobenzene	ug/L	12/05/94	0.27	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	0.27	3	0.53 J	0.72 J	ND	ND	--	--	ND
	ug/L	09/22/09	0.27	3	ND	1.0 J	ND	ND	--	--	ND
	ug/L	03/22/10	0.069	3	ND	0.77 J	ND	ND	--	--	ND
	ug/L	06/03/10	0.069	3	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.27	3	0.42 J	0.79 J	ND	ND	--	--	ND
	ug/L	03/16/11	0.74	3	ND	1.1 J	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.74	3	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.17	3	ND	2.2 J	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.17	3	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.17	3	ND	0.46 J	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.17	3	ND	0.55 J	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.17	3	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.17	3	ND	ND	ND	ND	dry	ND	ND

TABLE 6

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Dibromochloromethane	ug/L	12/05/94	5	1	ND	ND	ND	ND	--	--	--
No SW Standard	ug/L	02/14/95	5	1	ND	ND	ND	ND	--	--	--
	ug/L	04/03/95	5	1	ND	ND	ND	ND	--	--	--
	ug/L	10/30/95	5	1	ND	ND	ND	ND	--	--	--
	ug/L	04/08/96	5	1	--	ND	ND	ND	--	--	--
	ug/L	05/29/96	5	1	--	ND	ND	ND	--	--	--
	ug/L	06/06/96	5	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	5	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/05	5	1	ND	ND	ND	ND	--	--	--
	ug/L	04/25/06	5	1	ND	ND	ND	ND	--	--	--
	ug/L	10/04/06	5	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	5	1	ND	ND	ND	ND	--	--	ND
	ug/L	10/02/07	5	1	ND	ND	ND	ND	--	--	ND
	ug/L	04/03/08	5	1	ND	ND	ND	0.14 J	--	--	ND
	ug/L	10/29/08	5	1	ND	--	ND	ND	--	--	ND
	ug/L	03/24/09	0.32	3	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.32	3	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.067	3	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	0.067	3	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.32	3	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.63	3	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.63	3	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.17	3	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.17	3	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.17	3	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.17	3	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.17	3	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.17	3	ND	ND	ND	ND	dry	ND	ND
1,2-Dichlorobenzene	ug/L	12/05/94	0.27	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	0.27	5	ND	0.49 J	ND	ND	--	--	ND
	ug/L	09/22/09	0.27	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.052	5	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	0.052	5	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.27	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.11	5	ND	0.79 J	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.11	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.19	5	ND	0.51 J	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.19	5	ND	0.59 J	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.19	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.19	5	ND	0.48 J	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.19	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.19	5	ND	ND	ND	ND	dry	ND	ND

TABLE 6

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
1,4-Dichlorobenzene	ug/L	12/05/94	0.2	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	0.38	1	0.59 J	2.4	ND	ND	--	--	ND
	ug/L	09/22/09	0.38	1	ND	1.6	ND	ND	--	--	ND
	ug/L	03/22/10	0.10	1	ND	1.4	ND	ND	--	--	ND
	ug/L	06/03/10	0.10	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.38	1	ND	3.0	ND	ND	--	--	ND
	ug/L	03/16/11	0.79	1	ND	2.8	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.79	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.19	1	ND	4.5	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.19	1	0.40 J	5.9	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.19	1	ND	1.4	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.19	1	ND	1.7	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.19	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.19	1	ND	0.55 J	ND	ND	dry	ND	ND
1,1-Dichloroethane	ug/L	12/05/94	5	5	ND	ND	ND	ND	--	--	--
SW Standard = 20,000 ug/L	ug/L	02/14/95	5	5	ND	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	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	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/21/07	5	5	ND	0.23 J	ND	ND	--	--	ND
	ug/L	10/02/07	5	5	0.21 J	0.41 J	ND	ND	--	--	ND
	ug/L	04/03/08	5	5	0.09 J	0.14 J	ND	ND	--	--	ND
	ug/L	10/29/08	5	5	0.18 J	--	ND	ND	--	--	ND
	ug/L	03/24/09	0.33	5	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.33	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.050	5	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	0.050	5	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.33	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.080	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.080	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.13	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.13	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.13	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.13	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.13	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.13	5	ND	ND	ND	ND	dry	ND	ND

TABLE 6

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	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	0.3	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	0.36	5	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.36	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.075	5	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	0.075	5	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.36	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.72	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.72	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.15	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.15	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.15	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.15	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.15	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.15	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	0.34	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.34	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.050	1	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	0.050	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.34	1	ND	0.43 J	ND	0.41 J	--	--	ND
	ug/L	03/16/11	0.55	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.55	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.13	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.13	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.13	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.13	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.13	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.13	1	ND	ND	ND	ND	dry	ND	ND

TABLE 6

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Methylene chloride	ug/L	12/05/94	0.24	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	0.44	1	ND	--	ND	0.19 J	--	--	ND
	ug/L	03/24/09	0.53	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.53	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.070	1	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	0.070	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.53	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.14	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.14	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.23	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.23	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.23	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.23	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.23	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.23	1	ND	ND	ND	ND	dry	ND	ND
Tetrachloroethene	ug/L	12/05/94	0.36	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	0.36	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.36	1	ND	0.42 J	ND	ND	--	--	ND
	ug/L	03/22/10	0.099	1	ND	0.62 J	ND	ND	--	--	ND
	ug/L	06/03/10	0.099	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.36	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.73	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.73	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.17	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.17	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.17	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.17	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.17	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.17	1	ND	ND	ND	ND	dry	ND	ND

TABLE 6

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Toluene	ug/L	12/05/94	0.2	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	0.27	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.27	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.053	1	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	0.053	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.27	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.85	1	ND	ND	ND	ND	3.6	ND	ND
	ug/L	09/21/11	0.85	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.14	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.14	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.14	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.14	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.14	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.14	1	ND	ND	ND	ND	dry	ND	ND
Trichloroethene	ug/L	12/05/94	0.25	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	0.38	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.38	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.13	1	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	0.13	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.38	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.72	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.72	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.15	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.15	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.15	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.15	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.15	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.15	1	ND	ND	ND	ND	dry	ND	ND

TABLE 6

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

Detected Monitoring Constituent/Parameter	Units	Date	MDL	SWS Reporting Limit	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2	Blanks
Vinyl chloride	ug/L	12/05/94	0.3	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	0.30	1	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.30	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.083	1	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	0.083	1	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.30	1	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	0.60	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.60	1	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.32	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.32	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.32	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.32	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.32	1	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.32	1	ND	ND	ND	ND	dry	ND	ND
Xylenes (Total)	ug/L	12/05/94	0.4	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	0.40	5	ND	ND	ND	ND	--	--	ND
	ug/L	09/22/09	0.40	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/22/10	0.22	5	ND	ND	ND	ND	--	--	ND
	ug/L	06/03/10	0.22	5	--	--	--	--	ND	ND	ND
	ug/L	09/23/10	0.40	5	ND	ND	ND	ND	--	--	ND
	ug/L	03/16/11	2.1	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	09/21/11	2.1	5	ND	ND	ND	ND	ND	ND	ND
	ug/L	03/21/12	0.45	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/20/12	0.45	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/20/13	0.45	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/13	0.45	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	03/27/14	0.45	5	ND	ND	ND	ND	dry	ND	ND
	ug/L	09/18/14	0.45	5	ND	ND	ND	ND	dry	ND	ND

TABLE 6

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

Notes:

mg/L = milligrams per liter
ug/L = micrograms per liter
ND = Not detected at the stated reporting limit
uS/cm = microsiemens per centimeter
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
MDL = laboratory method detection limit
Blanks = field, trip and method blanks
Bold = concentrations above the SW Standards have been bolded
SWS Reporting Limit = NCPQL or lab-specific reporting limit prior to October 2007 and NCSWSL starting in October 2007
= EPA Action Level
* = EPA Secondary MCL
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.

TABLE 7

Summary of Field Parameters for Surface Water Monitoring Points
Henderson County Closed Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	BR-1	BR-2	BR-3	SW-1	TSW-1	TSW-2
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
	S.U.	03/26/14	6.84	7.17	6.58	7.32	dry	7.07
	S.U.	09/18/14	7.57	6.54	6.85	6.31	dry	6.24
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
	uS/cm	03/26/14	339	685	2688	342	dry	2784
	uS/cm	09/18/14	401	691	2212	345	dry	3039
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
	Celsius	03/26/14	10.6	6.9	10.7	3.9	dry	9.4
	Celsius	09/18/14	17.8	17.3	17.9	16.6	dry	17.1
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
	NTU	03/26/14	24.9	6.90	14.7	9.87	dry	6.35
	NTU	09/18/14	2.32	4.95	1.46	2.84	dry	3.27
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
	mV	03/26/14	-105.6	-120.6	-80.5	-75.0	dry	-86.1
	mV	09/18/14	86.8	66.5	45.0	179.9	dry	26.7
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	03/16/11	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	09/20/12	5.53	12.35	6.67	7.13	dry	6.47
	mg/L	03/20/13	--	--	--	--	dry	--
	mg/L	09/18/13	8.19	5.36	6.09	5.86	dry	5.06
	mg/L	03/26/14	10.75	8.64	9.54	9.33	dry	8.07
	mg/L	09/18/14	6.17	5.45	6.38	6.12	dry	6.66

Notes:

mg/L = milligrams per liter
S.U. = Standard Units
NTU = Nephelometric Turbidity Units
uS/cm = microsiemens per centimeter
mV = Millivolts
-- = no data available
dry = there was no discernible flow and a sample was not collected.
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.

TABLE 8

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	MDL	SWS Reporting Limit	Upgradient Well		Downgradient Wells						Blanks	
					MW-10		MW-11		MW-12		MW-13			
Antimony	ug/L	03/24/09	0.68	6	ND		ND		ND		ND		ND	
SWS GPS = 1 ug/L	ug/L	09/22/09	0.0730	6	ND		ND		0.098	J	ND		ND	
EPA MCL = 6 ug/L	ug/L	03/24/10	0.220	6	ND		ND		ND		ND		ND	
	ug/L	09/22/10	0.220	6	ND		ND		ND		ND		ND	
	ug/L	03/16/11	0.220	6	ND		ND		0.248	J	0.360	J	ND	
	ug/L	09/21/11	0.220	6	0.255	J	--		ND		0.609	J	ND	
	ug/L	03/21/12	0.220	6	0.365	J	0.965	J	ND		ND		ND	
	ug/L	09/20/12	0.220	6	ND		ND		ND		ND		ND	
	ug/L	03/20/13	0.220	6	ND		0.323	J	ND		ND		ND	
	ug/L	09/18/13	0.220	6	ND		ND		ND		ND		ND	
	ug/L	03/27/14	0.220	6	ND		0.870	J	ND		ND		ND	
	ug/L	09/18/14	0.220	6	0.335	J	0.893	J	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		--	
EPA MCL = 10 ug/L	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	2.8	10	ND		ND		ND		ND		ND	
	ug/L	09/22/09	2.80	10	ND		3.81	J	3.64	J	ND		ND	
	ug/L	03/24/10	2.80	10	ND		ND		ND		ND		ND	
	ug/L	09/22/10	2.80	10	ND		ND		ND		ND		ND	
	ug/L	03/16/11	2.80	10	ND		ND		ND		ND		ND	
	ug/L	09/21/11	2.80	10	ND		--		ND		ND		ND	
	ug/L	03/21/12	2.80	10	ND		ND		ND		ND		ND	
	ug/L	09/20/12	2.80	10	ND		ND		ND		ND		3.27	J
	ug/L	03/20/13	2.80	10	ND		ND		3.23	J	ND		ND	
	ug/L	09/18/13	5.40	10	ND		ND		ND		ND		ND	
	ug/L	03/27/14	5.40	10	ND		ND		ND		ND		ND	
	ug/L	09/18/14	5.40	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		--	
EPA MCL = 2000 ug/L	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	4.20	100	15.8	J	61.2	J	25.9	J	19.8	J	ND	
	ug/L	09/22/09	1.00	100	5.04	J	75.9	J	26.0	J	14.9	J	ND	
	ug/L	03/24/10	1.00	100	2.75	B	33.7	J	14.3	J	12.1	J	1.54	J
	ug/L	09/22/10	1.00	100	26.1	J	23.0	J	9.25	J	12.5	J	ND	
	ug/L	03/16/11	1.00	100	59.1	J	32.5	J	18.0	J	12.6	J	ND	
	ug/L	09/21/11	1.00	100	2.53	J	--		13.7	J	12.2	J	ND	
	ug/L	03/21/12	1.00	100	1.99	J	46.7	J	16.8	J	11.9	J	ND	
	ug/L	09/20/12	1.00	100	2.07	J	72.8	J	13.7	J	12.4	J	ND	
	ug/L	03/20/13	1.00	100	1.42	B	48.2	J	12.8	J	20.7	J	1.34	J
	ug/L	09/18/13	1.00	100	429		59.6	J	16.7	J	24.2	J	1.08	J
	ug/L	03/27/14	1.00	100	1.87	J	107		11.5	J	13.6	J	ND	
	ug/L	09/18/14	1.00	100	6.05	B	78.8	J	10.7	J	14.4	J	1.96	J
Beryllium	ug/L	03/24/09	0.08	1	0.32	J	1.19		0.46	J	0.09	J	ND	
SWS GPS = 4 ug/L	ug/L	09/22/09	0.100	1	0.190	B	1.02		0.682	J	0.117	B	0.113	
EPA MCL = 4 ug/L	ug/L	03/24/10	0.100	1	0.178	J	1.46		0.130	J	ND		ND	
	ug/L	09/22/10	0.100	1	ND		0.882	J	0.120	J	ND		ND	
	ug/L	03/16/11	0.100	1	0.753	J	0.941	J	0.117	J	ND		ND	
	ug/L	09/21/11	0.100	1	ND		--		ND		ND		ND	
	ug/L	03/21/12	0.100	1	ND		0.869	J	0.118	J	ND		ND	
	ug/L	09/20/12	0.100	1	ND		1.04		ND		ND		ND	
	ug/L	03/20/13	0.100	1	ND		0.785	J	0.102	J	ND		ND	
	ug/L	09/18/13	0.100	1	**5.56**		1.12		0.193	J	ND		ND	
	ug/L	03/27/14	0.100	1	0.139	J	1.55		0.132	J	ND		ND	
	ug/L	09/18/14	0.100	1	0.112	J	0.968	J	ND		ND		ND	

TABLE 8

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	MDL	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		--
EPA MCL = 5 ug/L	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	0.09	1	ND		0.27	J	0.14	J	ND		ND
	ug/L	09/22/09	0.360	1	ND		1.15		0.461	J	1.00		ND
	ug/L	03/24/10	0.360	1	ND		ND		ND		ND		ND
	ug/L	09/22/10	0.360	1	ND		ND		ND		ND		ND
	ug/L	03/16/11	0.360	1	ND		ND		ND		ND		ND
	ug/L	09/21/11	0.360	1	ND		--		0.402	J	ND		ND
	ug/L	03/21/12	0.360	1	ND		ND		0.774	J	ND		ND
	ug/L	09/20/12	0.360	1	ND		ND		ND		ND		ND
	ug/L	03/20/13	0.360	1	ND		ND		ND		ND		ND
	ug/L	09/18/13	0.360	1	ND		ND		ND		ND		ND
	ug/L	03/27/14	0.360	1	ND		1.05		ND		ND		ND
	ug/L	09/18/14	0.360	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		--
EPA MCL = 100 ug/L	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	0.7	10	1.0	J	ND		1.2	J	3.0	J	ND
	ug/L	09/22/09	1.00	10	ND		ND		ND		ND		ND
	ug/L	03/24/10	1.00	10	ND		ND		ND		ND		ND
	ug/L	09/22/10	1.00	10	1.18	J	ND		ND		ND		ND
	ug/L	03/16/11	1.00	10	5.18	J	ND		ND		ND		ND
	ug/L	09/21/11	1.00	10	ND		--		ND		ND		ND
	ug/L	03/21/12	1.00	10	ND		ND		ND		ND		ND
	ug/L	09/20/12	1.00	10	ND		1.80	J	ND		ND		ND
	ug/L	03/20/13	1.40	10	ND		ND		ND		ND		ND
	ug/L	09/18/13	1.40	10	**12.6**		ND		ND		1.57	J	ND
	ug/L	03/27/14	1.40	10	ND		ND		ND		ND		ND
	ug/L	09/18/14	1.40	10	ND		ND		ND		ND		ND
Cobalt	ug/L	03/24/09	0.6	10	0.8	J	ND		**1.1**	**J**	ND		ND
SWS GPS = 1 ug/L	ug/L	09/22/09	1.10	10	ND		ND		**1.28**	**J**	ND		ND
EPA MCL = No Standard	ug/L	03/24/10	1.10	10	ND		**4.30**	**J**	ND		ND		ND
	ug/L	09/22/10	1.10	10	**2.10**	**J**	**2.89**	**J**	**1.87**	**J**	ND		ND
	ug/L	03/16/11	1.10	10	**3.28**	**J**	**2.05**	**J**	ND		ND		ND
	ug/L	09/21/11	1.10	10	ND		--		ND		ND		ND
	ug/L	03/21/12	1.10	10	ND		ND		ND		ND		ND
	ug/L	09/20/12	1.10	10	ND		**1.37**	**J**	**1.55**	**J**	**1.11**	**J**	ND
	ug/L	03/20/13	1.10	10	ND		**1.54**	**J**	ND		**2.35**	**J**	ND
	ug/L	09/18/13	1.10	10	**15.3**		**1.56**	**J**	ND		ND		ND
	ug/L	03/27/14	1.10	10	ND		**6.98**	**J**	ND		ND		ND
	ug/L	09/18/14	1.10	10	ND		**7.44**	**J**	ND		ND		ND
Copper	ug/L	03/24/09	0.81	10	3.42	J	ND		ND		ND		ND
NC 2L =1000 ug/L	ug/L	09/22/09	1.60	10	ND		ND		ND		1.82	J	ND
EPA MCL = 1300 ug/L#	ug/L	03/24/10	1.60	10	ND		2.76	J	ND		ND		ND
	ug/L	09/22/10	1.60	10	3.49	J	ND		ND		ND		ND
	ug/L	03/16/11	1.60	10	15.9		2.55	J	3.09	J	4.85	J	ND
	ug/L	09/21/11	1.60	10	ND		--		ND		1.80	J	ND
	ug/L	03/21/12	1.60	10	ND		ND		ND		ND		ND
	ug/L	09/20/12	1.60	10	ND		ND		ND		ND		ND
	ug/L	03/20/13	1.60	10	ND		ND		1.97	J	ND		ND
	ug/L	09/18/13	1.60	10	31.1		ND		ND		ND		ND
	ug/L	03/27/14	1.60	10	ND		ND		ND		ND		ND
	ug/L	09/18/14	1.60	10	ND		ND		ND		ND		ND

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Henderson County, North Carolina

Detected Monitoring Constituent/Parameter	Units	Date	MDL	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		--	
EPA MCL = 15 ug/L[#]	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	1.6	10	4.4	J	3.7	J	3.1	J	3.9	J	ND	
	ug/L	09/22/09	1.90	10	2.40	J	ND		3.84	J	ND		ND	
	ug/L	03/24/10	1.90	10	ND		ND		2.18	J	ND		ND	
	ug/L	09/22/10	1.90	10	2.56	J	ND		ND		ND		ND	
	ug/L	03/16/11	1.90	10	12.8		2.55	J	ND		2.29	J	ND	
	ug/L	09/21/11	1.90	10	ND		--		ND		ND		ND	
	ug/L	03/21/12	1.90	10	ND		ND		ND		ND		ND	
	ug/L	09/20/12	1.90	10	ND		ND		ND		ND		2.70	J
	ug/L	03/20/13	1.90	10	ND		ND		ND		ND		ND	
	ug/L	09/18/13	2.10	10	**37.6**		ND		ND		ND		ND	
	ug/L	03/27/14	2.10	10	ND		ND		ND		ND		ND	
	ug/L	09/18/14	2.10	10	ND		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		--	
EPA MCL = 2 ug/L	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	0.11	0.2	ND		ND		0.54		ND		ND	
	ug/L	09/22/09	0.0540	0.2	ND		ND		0.172	J	ND		ND	
	ug/L	03/24/10	0.0540	0.2	ND		0.0586	J	0.144	J	ND		ND	
	ug/L	09/22/10	0.170	0.2	ND		ND		ND		ND		ND	
	ug/L	03/16/11	0.170	0.2	ND		ND		ND		ND		ND	
	ug/L	09/21/11	0.170	0.2	ND		--		ND		ND		ND	
	ug/L	03/21/12	0.170	0.2	ND		ND		ND		ND		ND	
	ug/L	09/20/12	0.170	0.2	ND		ND		0.253		ND		ND	
	ug/L	03/20/13	0.170	0.2	ND		ND		0.199	J	ND		ND	
	ug/L	09/18/13	0.170	0.2	ND		ND		ND		0.246		ND	
	ug/L	03/27/14	0.170	0.2	ND		ND		ND		ND		ND	
	ug/L	09/18/14	0.170	0.2	ND		ND		ND		ND		ND	
Nickel	ug/L	03/24/09	0.6	50	0.7	J	ND		1.1	J	1.0	J	ND	
NC 2L = 100 ug/L	ug/L	09/22/09	1.80	50	ND		ND		ND		1.88	J	ND	
EPA MCL = No Standard	ug/L	03/24/10	1.80	50	ND		ND		ND		ND		ND	
	ug/L	09/22/10	1.80	50	ND		ND		ND		ND		ND	
	ug/L	03/16/11	1.80	50	3.91	J	ND		ND		ND		ND	
	ug/L	09/21/11	1.80	50	ND		--		ND		ND		ND	
	ug/L	03/21/12	1.80	50	ND		ND		ND		ND		ND	
	ug/L	09/20/12	1.80	50	ND		3.07	J	ND		ND		ND	
	ug/L	03/20/13	1.80	50	ND		ND		ND		ND		ND	
	ug/L	09/18/13	1.80	50	7.11	J	ND		ND		ND		ND	
	ug/L	03/27/14	1.80	50	ND		ND		ND		ND		ND	
	ug/L	09/18/14	1.80	50	ND		ND		ND		ND		ND	

TABLE 8

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	MDL	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		--	
EPA MCL = 50 ug/L	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	3.4	10	ND		ND		ND		ND		ND	
	ug/L	09/22/09	2.70	10	ND		ND		ND		ND		ND	
	ug/L	03/24/10	0.830	10	ND		ND		ND		ND		ND	
	ug/L	09/22/10	2.70	10	ND		ND		ND		ND		ND	
	ug/L	03/16/11	2.70	10	ND		ND		ND		ND		3.32	J
	ug/L	09/21/11	0.830	10	ND		--		ND		ND		ND	
	ug/L	03/21/12	2.70	10	ND		ND		ND		ND		ND	
	ug/L	09/20/12	2.70	10	ND		ND		ND		ND		ND	
	ug/L	03/20/13	4.50	10	ND		ND		ND		ND		ND	
	ug/L	09/18/13	5.00	10	ND		ND		ND		ND		ND	
	ug/L	03/27/14	5.00	10	ND		ND		ND		ND		ND	
	ug/L	09/18/14	5.00	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		--	
EPA MCL = 100 ug/L	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	1.0	10	ND		1.2	J	ND		ND		ND	
	ug/L	09/22/09	1.90	10	ND		ND		ND		ND		ND	
	ug/L	03/24/10	1.90	10	ND		ND		ND		ND		ND	
	ug/L	09/22/10	1.90	10	ND		ND		ND		ND		ND	
	ug/L	03/16/11	1.90	10	ND		ND		ND		ND		ND	
	ug/L	09/21/11	1.90	10	ND		--		ND		ND		ND	
	ug/L	03/21/12	1.90	10	ND		ND		ND		ND		ND	
	ug/L	09/20/12	1.90	10	ND		ND		ND		ND		ND	
	ug/L	03/20/13	1.90	10	ND		ND		ND		ND		2.11	J
	ug/L	09/18/13	1.90	10	ND		ND		ND		ND		ND	
	ug/L	03/27/14	1.90	10	ND		ND		ND		ND		ND	
	ug/L	09/18/14	1.90	10	ND		ND		ND		ND		ND	
Thallium	ug/L	03/24/09	0.036	5.5	ND		ND		0.061	B	ND		0.092	J
NC 2L = 0.28 ug/L	ug/L	09/22/09	0.110	5.5	ND		ND		ND		ND		ND	
EPA MCL = 2 ug/L	ug/L	03/24/10	0.110	5.5	ND		ND		ND		ND		ND	
	ug/L	09/22/10	0.110	5.5	ND		ND		ND		ND		ND	
	ug/L	03/16/11	0.110	5.5	ND		ND		ND		ND		ND	
	ug/L	09/21/11	0.110	5.5	ND		--		ND		ND		ND	
	ug/L	03/21/12	0.110	5.5	ND		ND		ND		ND		ND	
	ug/L	09/20/12	0.110	5.5	ND		ND		ND		ND		ND	
	ug/L	03/20/13	0.110	5.5	ND		ND		ND		ND		ND	
	ug/L	09/18/13	0.110	5.5	ND		ND		ND		ND		ND	
	ug/L	03/27/14	0.110	5.5	ND		ND		ND		ND		ND	
	ug/L	09/18/14	0.110	5.5	ND		ND		ND		ND		ND	
Vanadium	ug/L	03/24/09	0.7	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	1.40	25	**2.01**	**J**	ND		**6.20**	**J**	**2.01**	**J**	ND	
EPA MCL = No Standard	ug/L	03/24/10	1.40	25	ND		**2.62**	**J**	**1.57**	**J**	ND		ND	
	ug/L	09/22/10	1.40	25	**7.06**	**J**	ND		ND		**1.64**	**J**	ND	
	ug/L	03/16/11	1.40	25	**19.5**	**J**	**1.76**	**J**	**3.03**	**J**	ND		ND	
	ug/L	09/21/11	1.40	25	ND		--		**2.32**	**J**	ND		ND	
	ug/L	03/21/12	1.40	25	ND		**2.19**	**J**	**3.02**	**J**	**1.52**	**J**	ND	
	ug/L	09/20/12	1.40	25	ND		**2.85**	**J**	ND		ND		ND	
	ug/L	03/20/13	1.40	25	ND		**2.34**	**J**	ND		**1.91**	**J**	ND	
	ug/L	09/18/13	1.40	25	**75.0**		**1.86**	**J**	**1.72**	**J**	**3.22**	**J**	ND	
	ug/L	03/27/14	1.40	25	ND		ND		ND		ND		ND	
	ug/L	09/18/14	1.40	25	ND		ND		ND		ND		ND	

TABLE 8

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	MDL	SWS Reporting Limit	Upgradient Well		Downgradient Wells						Blanks	
					MW-10		MW-11		MW-12		MW-13			
Zinc	ug/L	03/24/09	3.4	10	8.0	B	9.0	B	17.9		7.2	B	3.4	
NC 2L = 1000 ug/L	ug/L	09/22/09	3.80	10	ND		32.4		17.3		12.0		ND	
EPA MCL = 5000 ug/L*	ug/L	03/24/10	3.80	10	13.2		20.0		21.5		12.2		ND	
	ug/L	09/22/10	3.80	10	14.8		7.45	J	6.78	J	10.5		ND	
	ug/L	03/16/11	3.80	10	43.2		4.05	J	12.5		26.0		ND	
	ug/L	09/21/11	3.80	10	ND		--		12.0		12.5		ND	
	ug/L	03/21/12	3.80	10	ND		92.0		6.44	J	ND		ND	
	ug/L	09/20/12	3.80	10	ND		22.2		ND		ND		ND	
	ug/L	03/20/13	3.80	10	9.34	J	11.2		11.9		8.08	J	ND	
	ug/L	09/18/13	3.80	10	152		15.6		9.51	J	7.43	J	ND	
	ug/L	03/27/14	3.80	10	ND		13.7		ND		7.05	J	ND	
	ug/L	09/18/14	3.80	10	4.00	J	15.5		ND		5.45	J	ND	
Iron	ug/L	03/24/09	31	300	**2750**		**1400**		**4810**		**1670**		ND	
NC 2L = 300 ug/L	ug/L	09/22/09	22.0	300	**684**		**1390**		**4450**		**735**		ND	
EPA MCL = 300 ug/L	ug/L	03/24/10	22.0	300	151	J	**2050**		**830**		**564**		27.6	
	ug/L	09/22/10	22.0	300	**4690**		**630**		**841**		**658**		ND	
	ug/L	03/16/11	22.0	300	**14200**		**1770**		**1600**		**462**		ND	
	ug/L	09/21/11	22.0	300	153	J	--		269	J	457		ND	
	ug/L	03/21/12	22.0	300	81.3	B	**4460**		**1260**		245	J	44.0	J
	ug/L	09/20/12	22.0	300	36.2	J	**4040**		133	J	91.7	J	ND	
	ug/L	03/20/13	22.0	300	22.2	J	**4530**		**594**		**2040**		ND	
	ug/L	09/18/13	22.0	300	**52700**		**5170**		**1270**		**1770**		ND	
	ug/L	03/27/14	22.0	300	41.0	J	**6590**		126	J	35.9	J	ND	
	ug/L	09/18/14	22.0	300	**425**		**6200**		37.0	J	**454**		ND	
Manganese	ug/L	03/24/09	1.1	50	**60.9**		**165**		**155**		**59.1**		ND	
NC 2L = 50 ug/L	ug/L	09/22/09	1.10	50	18.1	J	**186**		**163**		34.9	J	1.99	
EPA MCL = 50 ug/L	ug/L	03/24/10	1.10	50	4.51	B	**1780**		**142**		**111**		2.13	
	ug/L	09/22/10	1.10	50	**121**		**923**		**743**		**58.4**		3.27	J
	ug/L	03/16/11	1.10	50	**356**		**349**		**389**		**116**		3.57	J
	ug/L	09/21/11	1.10	50	8.27	J	--		**239**		**66.2**		ND	
	ug/L	03/21/12	1.10	50	3.45	B	**164**		**295**		**88.3**		2.02	J
	ug/L	09/20/12	1.10	50	1.43	J	**256**		**163**		**74.2**		ND	
	ug/L	03/20/13	1.10	50	2.22	B	**262**		**285**		**286**		7.96	J
	ug/L	09/18/13	1.10	50	**1530**		**390**		**214**		**84.9**		1.75	J
	ug/L	03/27/14	1.10	50	2.05	B	**1690**		**285**		**64.7**		3.64	J
	ug/L	09/18/14	1.10	50	16.9	J	**1950**		**176**		**64.7**		ND	
Acetone	ug/L	03/24/09	1.5	100	ND		ND		3.8	J	ND		ND	
NC 2L = 6000 ug/L	ug/L	09/22/09	1.5	100	ND		ND		ND		ND		ND	
EPA MCL = No Standard	ug/L	03/24/10	1.5	100	ND		19	J	13	J	ND		ND	
	ug/L	09/22/10	1.5	100	ND		4.5	J	2.7	J	ND		ND	
	ug/L	03/16/11	1.2	100	ND		92	J	17	J	ND		ND	
	ug/L	09/21/11	1.2	100	ND		--		18	J	ND		ND	
	ug/L	03/21/12	1.2	100	ND		7.5	J	30	J	ND		ND	
	ug/L	09/20/12	1.2	100	ND		4.3	B	9.9	B	ND		7.0	J
	ug/L	03/20/13	1.2	100	ND		ND		6.8	J	ND		ND	
	ug/L	09/18/13	1.2	100	ND		ND		ND		ND		ND	
	ug/L	03/27/14	1.2	100	ND		18	B	ND		ND		19	J
	ug/L	09/18/14	1.2	100	ND		4.9	J	ND		ND		ND	
Benzene	ug/L	06/21/01	5	1	ND		ND		ND		ND		--	
NC 2L = 1 ug/L	ug/L	04/24/02	5	1	ND		ND		ND		ND		--	
EPA MCL = 5 ug/L	ug/L	10/01/02	5	1	ND		ND		ND		ND		--	
	ug/L	04/10/03	5	1	ND		ND		ND		ND		--	
	ug/L	10/20/03	5	1	ND		ND		ND		ND		--	
	ug/L	03/24/04	5	1	ND		ND		ND		ND		--	
	ug/L	10/27/04	5	1	ND		ND		ND		ND		--	
	ug/L	05/25/05	5	1	ND		ND		ND		ND		--	
	ug/L	10/05/05	5	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	0.20	1	ND		ND		ND		ND		ND	
	ug/L	09/22/09	0.20	1	ND		0.50	J	ND		ND		ND	
	ug/L	03/24/10	0.050	1	ND		ND		ND		ND		ND	
	ug/L	09/22/10	0.20	1	ND		ND		ND		ND		ND	
	ug/L	03/16/11	0.68	1	ND		ND		ND		ND		ND	
	ug/L	09/21/11	0.68	1	ND		--		ND		ND		ND	
	ug/L	03/21/12	0.15	1	ND		ND		ND		ND		ND	
	ug/L	09/20/12	0.15	1	ND		ND		ND		ND		ND	
	ug/L	03/20/13	0.15	1	ND		ND		ND		ND		ND	
	ug/L	09/18/13	0.15	1	ND		ND		0.47	J	ND		ND	
	ug/L	03/27/14	0.15	1	ND		ND		ND		ND		ND	
	ug/L	09/18/14	0.15	1	ND		ND		ND		ND		ND	

TABLE 8

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	MDL	SWS Reporting Limit	Upgradient Well	Downgradient Wells			Blanks
					MW-10	MW-11	MW-12	MW-13	
Carbon disulfide	ug/L	03/24/09	0.54	100	ND	ND	ND	ND	ND
NC 2L = 700 ug/L	ug/L	09/22/09	0.54	100	ND	ND	ND	ND	ND
EPA MCL = No Standard	ug/L	03/24/10	0.54	100	ND	ND	ND	ND	ND
	ug/L	09/22/10	0.54	100	ND	ND	ND	ND	ND
	ug/L	03/16/11	1.5	100	ND	ND	ND	ND	ND
	ug/L	09/21/11	1.5	100	ND	--	ND	ND	ND
	ug/L	03/21/12	1.5	100	ND	ND	ND	ND	ND
	ug/L	09/20/12	1.5	100	ND	6.7 J	ND	ND	ND
	ug/L	03/20/13	1.5	100	ND	ND	ND	ND	ND
	ug/L	09/18/13	1.5	100	ND	ND	ND	ND	ND
	ug/L	03/27/14	1.5	100	ND	ND	ND	ND	ND
	ug/L	09/18/14	1.5	100	ND	ND	ND	ND	ND
Chloroethane	ug/L	06/21/01	10	10	ND	ND	ND	ND	--
SWS GPS = 3000 ug/L	ug/L	04/24/02	10	10	ND	ND	ND	ND	--
EPA MCL = No Standard	ug/L	10/01/02	10	10	ND	ND	ND	ND	--
	ug/L	04/10/03	10	10	ND	ND	ND	ND	--
	ug/L	10/20/03	10	10	ND	ND	ND	ND	--
	ug/L	03/24/04	10	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	0.30	10	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.30	10	ND	ND	ND	ND	ND
	ug/L	03/24/10	0.18	10	ND	ND	ND	ND	ND
	ug/L	09/22/10	0.30	10	ND	ND	0.95 J	ND	ND
	ug/L	03/16/11	0.75	10	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.75	10	ND	--	ND	ND	ND
	ug/L	03/21/12	0.23	10	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.23	10	ND	ND	ND	ND	ND
	ug/L	03/20/13	0.23	10	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.23	10	ND	ND	ND	ND	ND
	ug/L	03/27/14	0.23	10	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.23	10	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ug/L	06/21/01	0.27	1	ND	ND	ND	ND	--
NC 2L = 6 ug/L	ug/L	04/24/02	5	1	ND	ND	ND	ND	--
EPA MCL = 75 ug/L	ug/L	10/01/02	5	1	ND	ND	ND	ND	--
	ug/L	04/10/03	5	1	ND	ND	ND	ND	--
	ug/L	10/20/03	5	1	ND	ND	ND	ND	--
	ug/L	03/24/04	5	1	ND	ND	ND	ND	--
	ug/L	10/27/04	5	1	ND	ND	ND	ND	--
	ug/L	05/25/05	5	1	ND	ND	ND	ND	--
	ug/L	10/05/05	5	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	0.38	1	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.38	1	ND	ND	ND	ND	ND
	ug/L	03/24/10	0.10	1	ND	0.46 J	ND	0.45 J	ND
	ug/L	09/22/10	0.38	1	ND	ND	ND	0.57 J	ND
	ug/L	03/16/11	0.79	1	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.79	1	ND	--	ND	ND	ND
	ug/L	03/21/12	0.19	1	ND	ND	ND	0.64 J	ND
	ug/L	09/20/12	0.19	1	ND	ND	ND	0.51 J	ND
	ug/L	03/20/13	0.19	1	ND	ND	ND	0.41 J	ND
	ug/L	09/18/13	0.19	1	ND	ND	ND	0.55 J	ND
	ug/L	03/27/14	0.19	1	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.19	1	ND	ND	ND	0.52 J	ND

TABLE 8

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	MDL	SWS Reporting Limit	Upgradient Well	Downgradient Wells			Blanks
					MW-10	MW-11	MW-12	MW-13	
1,1-Dichloroethane	ug/L	06/21/01	5	5	ND	ND	ND	ND	--
NC 2L = 6 ug/L	ug/L	04/24/02	5	5	ND	ND	ND	ND	--
EPA MCL = No Standard	ug/L	10/01/02	5	5	ND	ND	ND	ND	--
	ug/L	04/10/03	5	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	0.33	5	ND	ND	0.82 J	ND	ND
	ug/L	09/22/09	0.33	5	ND	ND	0.70 J	ND	ND
	ug/L	03/24/10	0.050	5	ND	ND	0.47 J	ND	ND
	ug/L	09/22/10	0.33	5	ND	ND	ND	ND	ND
	ug/L	03/16/11	0.080	5	ND	ND	0.40 J	ND	ND
	ug/L	09/21/11	0.080	5	ND	--	0.51 J	ND	ND
	ug/L	03/21/12	0.13	5	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.13	5	ND	ND	ND	ND	ND
	ug/L	03/20/13	0.13	5	ND	ND	ND	0.46 J	ND
	ug/L	09/18/13	0.13	5	ND	ND	ND	ND	ND
	ug/L	03/27/14	0.13	5	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.13	5	ND	ND	ND	ND	ND
1,1-Dichloroethene	ug/L	03/24/09	0.24	5	ND	ND	ND	ND	ND
NC 2L = 7 ug/L	ug/L	09/22/09	0.24	5	ND	ND	ND	ND	ND
EPA MCL = 7 ug/L	ug/L	03/24/10	0.15	5	ND	ND	ND	ND	ND
	ug/L	09/22/10	0.24	5	ND	ND	ND	ND	ND
	ug/L	03/16/11	0.60	5	ND	ND	3.3 J	ND	ND
	ug/L	09/21/11	0.60	5	ND	--	ND	ND	ND
	ug/L	03/21/12	0.21	5	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.21	5	ND	ND	ND	ND	ND
	ug/L	03/20/13	0.21	5	ND	ND	ND	3.1 J	ND
	ug/L	09/18/13	0.21	5	ND	ND	ND	ND	ND
	ug/L	03/27/14	0.21	5	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.21	5	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ug/L	06/21/01	5	5	ND	ND	ND	ND	--
NC 2L = 70 ug/L	ug/L	04/24/02	5	5	ND	ND	ND	ND	--
EPA MCL = 70 ug/L	ug/L	10/01/02	5	5	ND	ND	ND	ND	--
	ug/L	04/10/03	5	5	ND	6	ND	ND	--
	ug/L	10/20/03	5	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	0.36	5	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.36	5	ND	5.7	ND	ND	ND
	ug/L	03/24/10	0.075	5	ND	5.3	ND	0.84 J	ND
	ug/L	09/22/10	0.36	5	ND	ND	ND	0.78 J	ND
	ug/L	03/16/11	0.72	5	ND	ND	0.76 J	1.3 J	ND
	ug/L	09/21/11	0.72	5	ND	--	ND	1.1 J	ND
	ug/L	03/21/12	0.15	5	ND	0.46 J	0.73 J	1.3 J	ND
	ug/L	09/20/12	0.15	5	ND	ND	0.60 J	1.4 J	ND
	ug/L	03/20/13	0.15	5	ND	0.94 J	0.86 J	1.6 J	ND
	ug/L	09/18/13	0.15	5	ND	1.8 J	1.1 J	1.7 J	ND
	ug/L	03/27/14	0.15	5	ND	1.2 J	0.64 J	2.3 J	ND
	ug/L	09/18/14	0.15	5	ND	ND	0.90 J	3.0 J	ND
Chloromethane	ug/L	03/24/09	0.34	1	ND	ND	ND	ND	ND
SWS GPS = 3 ug/L	ug/L	09/22/09	0.34	1	ND	ND	ND	ND	ND
EPA MCL = No Standard	ug/L	03/24/10	0.050	1	ND	ND	ND	ND	ND
	ug/L	09/22/10	0.34	1	0.51 J	0.47 J	1.1	ND	ND
	ug/L	03/16/11	0.55	1	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.55	1	ND	--	ND	ND	ND
	ug/L	03/21/12	0.13	1	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.13	1	ND	ND	ND	ND	ND
	ug/L	03/20/13	0.13	1	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.13	1	ND	ND	ND	ND	ND
	ug/L	03/27/14	0.13	1	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.13	1	ND	ND	ND	ND	ND

TABLE 8

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	MDL	SWS Reporting Limit	Upgradient Well		Downgradient Wells						Blanks
					MW-10		MW-11		MW-12		MW-13		
Methylene chloride	ug/L	06/21/01	10	1	ND		ND		ND		ND		--
NC 2L = 5 ug/L	ug/L	04/24/02	10	1	ND		ND		ND		ND		--
EPA MCL = 5 ug/L	ug/L	10/01/02	10	1	ND		ND		ND		ND		--
	ug/L	04/10/03	10	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	0.53	1	ND		ND		0.53	J	ND		ND
	ug/L	09/22/09	0.53	1	ND		ND		1.2		ND		ND
	ug/L	03/24/10	0.070	1	ND		ND		0.92	J	ND		ND
	ug/L	09/22/10	0.53	1	ND		ND		0.70	J	ND		ND
	ug/L	03/16/11	0.14	1	ND		ND		1.6		0.52	J	ND
	ug/L	09/21/11	0.14	1	ND		--		1.0		ND		ND
	ug/L	03/21/12	0.23	1	ND		ND		0.87	J	0.62	J	ND
	ug/L	09/20/12	0.23	1	ND		ND		ND		ND		ND
	ug/L	03/20/13	0.23	1	ND		ND		1.3		ND		ND
	ug/L	09/18/13	0.23	1	ND		ND		ND		ND		ND
	ug/L	03/27/14	0.23	1	ND		ND		0.59	J	0.59	J	ND
	ug/L	09/18/14	0.23	1	ND		ND		ND		ND		ND
2-Butanone	ug/L	03/24/09	1.0	100	ND		ND		ND		ND		ND
NC 2L = 4000 ug/L	ug/L	09/22/09	1.0	100	ND		ND		ND		ND		ND
EPA MCL = No Standard	ug/L	03/24/10	1.0	100	ND		ND		ND		ND		ND
	ug/L	09/22/10	1.0	100	ND		ND		ND		ND		ND
	ug/L	03/16/11	1.3	100	ND		1.6	J	ND		ND		ND
	ug/L	09/21/11	1.3	100	ND		--		ND		ND		ND
	ug/L	03/21/12	1.3	100	ND		ND		ND		ND		ND
	ug/L	09/20/12	1.3	100	ND		ND		ND		ND		ND
	ug/L	03/20/13	1.3	100	ND		ND		ND		ND		ND
	ug/L	09/18/13	1.3	100	ND		ND		ND		ND		ND
	ug/L	03/27/14	1.3	100	ND		ND		ND		ND		ND
	ug/L	09/18/14	1.3	100	ND		ND		ND		ND		ND
Tetrachloroethene	ug/L	06/21/01	5	1	ND		ND		ND		ND		--
NC 2L = 0.7 ug/L	ug/L	04/24/02	5	1	ND		ND		ND		ND		--
EPA MCL = 5 ug/L	ug/L	10/01/02	5	1	ND		ND		ND		ND		--
	ug/L	04/10/03	5	1	ND		ND		ND		ND		--
	ug/L	10/20/03	5	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**	**J**	ND		ND
	ug/L	10/02/07	--	1	ND		ND		**1.05**	**J**	0.27	J	ND
	ug/L	04/01/08	--	1	ND		0.12	J	**1.22**	**J**	0.32	J	ND
	ug/L	10/29/08	--	1	ND		0.36	J	**1.21**		0.33	J	ND
	ug/L	03/24/09	0.36	1	ND		0.49	J	**1.3**		ND		ND
	ug/L	09/22/09	0.36	1	ND		**2.9**		**1.1**		ND		ND
	ug/L	03/24/10	0.099	1	ND		**3.4**		**1.6**		0.56	J	ND
	ug/L	09/22/10	0.36	1	ND		ND		**1.7**		ND		ND
	ug/L	03/16/11	0.73	1	ND		ND		**1.4**		ND		ND
	ug/L	09/21/11	0.73	1	ND		--		ND		**0.75**	**J**	ND
	ug/L	03/21/12	0.17	1	ND		ND		**0.74**	**J**	0.49	J	ND
	ug/L	09/20/12	0.17	1	ND		ND		**0.73**	**J**	ND		ND
	ug/L	03/20/13	0.17	1	ND		ND		ND		ND		ND
	ug/L	09/18/13	0.17	1	ND		0.46	J	0.40	J	ND		ND
	ug/L	03/27/14	0.17	1	ND		ND		**1.2**		0.5	J	ND
(Verification Event)	ug/L	05/28/14	0.17	1	ND		--		ND		--		ND
	ug/L	09/18/14	0.17	1	ND		ND		**0.91**	**J**	0.45	J	ND

TABLE 8

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	MDL	SWS Reporting Limit	Upgradient Well	Downgradient Wells			Blanks
					MW-10	MW-11	MW-12	MW-13	
Toluene	ug/L	06/21/01	5	1	ND	ND	ND	ND	--
NC 2L = 600 ug/L	ug/L	04/24/02	5	1	ND	ND	ND	ND	--
EPA MCL = 1000 ug/L	ug/L	10/01/02	2	1	ND	ND	ND	ND	--
	ug/L	04/10/03	--	1	ND	ND	ND	ND	--
	ug/L	10/20/03	2	1	ND	ND	ND	ND	--
	ug/L	03/24/04	1	1	ND	ND	ND	ND	--
	ug/L	10/27/04	2	1	ND	ND	ND	ND	--
	ug/L	05/25/05	1	1	ND	ND	ND	ND	--
	ug/L	10/05/05	2	1	ND	ND	ND	ND	--
	ug/L	04/25/06	5	1	ND	ND	ND	ND	--
	ug/L	10/05/06	5	1	ND	ND	ND	ND	ND
	ug/L	03/21/07	5	1	ND	ND	ND	ND	ND
	ug/L	10/02/07	5	1	ND	ND	ND	ND	ND
	ug/L	04/01/08	5	1	ND	ND	ND	0.19 J	ND
	ug/L	10/29/08	5	1	ND	ND	ND	ND	ND
	ug/L	03/24/09	0.27	1	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.27	1	ND	ND	ND	ND	ND
	ug/L	03/24/10	0.053	1	ND	ND	ND	ND	ND
	ug/L	09/22/10	0.27	1	ND	ND	ND	ND	ND
	ug/L	03/16/11	0.85	1	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.85	1	ND	--	ND	ND	ND
	ug/L	03/21/12	0.14	1	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.14	1	ND	ND	ND	ND	ND
	ug/L	03/20/13	0.14	1	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.14	1	ND	ND	ND	ND	ND
	ug/L	03/27/14	0.14	1	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.14	1	ND	1.4	ND	ND	ND
1,1,1-Trichloroethane	ug/L	06/21/01	0.2	1	ND	ND	ND	ND	--
NC 2L = 200 ug/L	ug/L	04/24/02	5	1	ND	ND	ND	ND	--
EPA MCL = 200 ug/L	ug/L	10/01/02	5	1	ND	ND	ND	ND	--
	ug/L	04/10/03	5	1	ND	ND	ND	ND	--
	ug/L	10/20/03	5	1	ND	ND	ND	ND	--
	ug/L	03/24/04	5	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	0.21 J	ND	ND
	ug/L	04/01/08	--	1	ND	ND	0.17 J	ND	ND
	ug/L	10/29/08	--	1	ND	ND	0.15 J	ND	ND
	ug/L	03/24/09	0.27	1	ND	ND	ND	ND	ND
	ug/L	09/22/09	0.27	1	ND	ND	ND	ND	ND
	ug/L	03/24/10	0.15	1	ND	ND	ND	ND	ND
	ug/L	09/22/10	0.27	1	ND	ND	ND	ND	ND
	ug/L	03/16/11	0.65	1	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.65	1	ND	--	ND	ND	ND
	ug/L	03/21/12	0.12	1	ND	ND	ND	ND	ND
	ug/L	09/20/12	0.12	1	ND	ND	ND	ND	ND
	ug/L	03/20/13	0.12	1	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.12	1	ND	ND	ND	ND	ND
	ug/L	03/27/14	0.12	1	ND	ND	ND	ND	ND
	ug/L	09/18/14	0.12	1	ND	ND	ND	ND	ND

TABLE 8

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	MDL	SWS Reporting Limit	Upgradient Well	Downgradient Wells			Blanks
					MW-10	MW-11	MW-12	MW-13	
Trichloroethene	ug/L	06/21/01	5	1	ND	ND	ND	ND	--
NC 2L = 3 ug/L	ug/L	04/24/02	5	1	ND	ND	ND	ND	--
EPA MCL = 5 ug/L	ug/L	10/01/02	5	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	0.38	1	ND	ND	0.44 J	ND	ND
	ug/L	09/22/09	0.38	1	ND	0.64 J	ND	ND	ND
	ug/L	03/24/10	0.13	1	ND	0.90 J	0.52 J	ND	ND
	ug/L	09/22/10	0.38	1	ND	ND	ND	ND	ND
	ug/L	03/16/11	0.72	1	ND	ND	ND	ND	ND
	ug/L	09/21/11	0.72	1	ND	--	0.82 J	ND	ND
	ug/L	03/21/12	0.15	1	ND	ND	0.46 J	0.41 J	ND
	ug/L	09/20/12	0.15	1	ND	ND	ND	ND	ND
	ug/L	03/20/13	0.15	1	ND	ND	ND	ND	ND
	ug/L	09/18/13	0.15	1	ND	ND	ND	ND	ND
	ug/L	03/27/14	0.15	1	ND	ND	0.41 J	ND	ND
	ug/L	09/18/14	0.15	1	ND	ND	ND	ND	ND
Trichlorofluoromethane	ug/L	06/21/01	5	1	ND	ND	ND	ND	--
NC 2L = 2000 ug/L	ug/L	04/24/02	5	1	ND	ND	ND	ND	--
EPA MCL = No Standard	ug/L	10/01/02	5	1	ND	ND	ND	ND	--
	ug/L	04/10/03	5	1	ND	ND	ND	ND	--
	ug/L	10/20/03	5	1	ND	ND	ND	ND	--
	ug/L	03/24/04	5	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	0.28	1	ND	ND	4.3	1.5	ND
	ug/L	09/22/09	0.28	1	ND	ND	2.0	ND	ND
	ug/L	03/24/10	0.15	1	ND	ND	2.6	1.0	ND
	ug/L	09/22/10	0.28	1	ND	ND	2.0	0.87 J	ND
	ug/L	03/16/11	0.66	1	ND	ND	1.4	2.5	ND
	ug/L	09/21/11	0.66	1	ND	--	0.82 J	1.7	ND
	ug/L	03/21/12	0.24	1	ND	ND	0.51 J	ND	ND
	ug/L	09/20/12	0.24	1	ND	ND	0.80 J	0.76 J	ND
	ug/L	03/20/13	0.24	1	ND	ND	ND	1.1	ND
	ug/L	09/18/13	0.24	1	ND	ND	ND	1.3	ND
	ug/L	03/27/14	0.24	1	ND	ND	ND	3.9	ND
	ug/L	09/18/14	0.24	1	ND	ND	ND	1.6	ND

TABLE 8

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	MDL	SWS Reporting Limit	Upgradient Well	Downgradient Wells						Blanks
					MW-10	MW-11		MW-12		MW-13		
Vinyl chloride	ug/L	06/21/01	10	1	ND	ND		ND		ND		--
NC 2L = 0.03 ug/L	ug/L	04/24/02	10	1	ND	ND		ND		ND		--
EPA MCL = 2 ug/L	ug/L	10/01/02	10	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	0.30	1	ND	ND		ND		ND		ND
	ug/L	09/22/09	0.30	1	ND	**0.55**	**J**	ND		ND		ND
	ug/L	03/24/10	0.083	1	ND	ND		ND		ND		ND
	ug/L	09/22/10	0.30	1	ND	ND		**0.42**	**J**	ND		ND
	ug/L	03/16/11	0.60	1	ND	ND		ND		**0.64**	**J**	ND
	ug/L	09/21/11	0.60	1	ND	--		ND		ND		ND
	ug/L	03/21/12	0.32	1	ND	ND		**0.45**	**J**	ND		ND
	ug/L	09/20/12	0.32	1	ND	ND		**0.57**	**J**	**0.56**	**J**	ND
	ug/L	03/20/13	0.32	1	ND	**0.51**	**J**	**0.70**	**J**	**0.51**	**J**	ND
	ug/L	09/18/13	0.32	1	ND	**0.83**	**J**	**0.79**	**J**	**0.72**	**J**	ND
	ug/L	03/27/14	0.32	1	ND	**1.5**		**1.3**		**2.5**		ND
(Verification Event)	ug/L	05/28/14	0.32	1	ND	**0.72**	**J**	ND		**1.8**		ND
	ug/L	09/18/14	0.32	1	ND	**0.97**	**J**	**0.92**	**J**	**2.0**		ND
Xylenes (Total)	ug/L	06/21/01	5	5	ND	ND		ND		ND		--
NC 2L = 500 ug/L	ug/L	04/24/02	5	5	ND	ND		ND		ND		--
EPA MCL = 10000 ug/L	ug/L	10/01/02	5	5	ND	ND		ND		ND		--
	ug/L	04/10/03	5	5	ND	ND		ND		ND		--
	ug/L	10/20/03	5	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	0.40	5	ND	ND		ND		ND		ND
	ug/L	09/22/09	0.40	5	ND	0.72	J	ND		ND		ND
	ug/L	03/24/10	0.22	5	ND	0.62	J	ND		ND		ND
	ug/L	09/22/10	0.40	5	ND	ND		ND		ND		ND
	ug/L	03/16/11	2.1	5	ND	ND		ND		ND		ND
	ug/L	09/21/11	2.1	5	ND	--		ND		ND		ND
	ug/L	03/21/12	0.45	5	ND	ND		ND		ND		ND
	ug/L	09/20/12	0.45	5	ND	ND		ND		ND		ND
	ug/L	03/20/13	0.45	5	ND	ND		ND		ND		ND
	ug/L	09/18/13	0.45	5	ND	ND		ND		ND		ND
	ug/L	03/27/14	0.45	5	ND	ND		ND		ND		ND
	ug/L	09/18/14	0.45	5	ND	ND		ND		ND		ND
Tetrahydrofuran	ug/L	03/16/11	0.80	--	ND	ND		74		7.6		ND
SWS GPS / NC 2L = No Standard	ug/L	09/21/11	0.80	--	ND	--		39		8.2		ND
EPA MCL = No Standard	ug/L	03/21/12	0.80	--	ND	ND		28		17		ND
	ug/L	09/20/12	0.80	--	ND	ND		22		9.1		ND
	ug/L	03/20/13	0.80	--	ND	ND		34	B	9.0	B	21
	ug/L	09/18/13	0.80	--	ND	11		13		3.6		ND
	ug/L	03/27/14	0.80	--	ND	200		ND		8.0		ND
	ug/L	09/18/14	0.80		ND	21		ND		9.5		ND
2,4-D	ug/L	09/21/11	0.15	2	ND	--		ND		1.3	J	ND
NC 2L = 70 ug/L	ug/L	03/21/12	0.16	2	ND	ND		ND		0.80	J	ND
EPA MCL = 70 ug/L	ug/L	09/20/12	0.16	2	ND	ND		ND		ND		ND
	ug/L	03/20/13	0.16	2	ND	ND		ND		1.1	J	ND
	ug/L	09/18/13	0.16	2	ND	ND		ND		1.3	J	ND
	ug/L	03/27/14	0.27	2	ND	ND		ND		1.0	J	ND
	ug/L	09/18/14	0.27	2	ND	ND		ND		0.85	J	ND

TABLE 8

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	MDL	SWS Reporting Limit	Upgradient Well		Downgradient Wells						Blanks	
					MW-10		MW-11		MW-12		MW-13			
Chloride	mg/L	03/24/09	1.9	--	ND		8.8		4.1	J	ND		ND	
NC 2L = 250 mg/L	mg/L	09/22/09	0.018	--	3.1	J	8.1		8.7		3.6	J	ND	
EPA MCL = 250 mg/L*	mg/L	03/24/10	1.2	--	ND		1.7	J	7.3		2.5	J	ND	
	mg/L	09/22/10	0.018	--	3	J	4.7	J	4.8	J	5.1		ND	
	mg/L	03/16/11	0.047	--	3	J	ND	J	8.6		4.8	J	ND	
	mg/L	09/21/11	0.047	--	2.6	B	--		17		4.4	B	1.5	J
	mg/L	03/21/12	0.43	--	2.3	B	4.2	B	18		4.6	B	1.2	J
	mg/L	09/20/12	0.43	--	2.6	B	6.3	B	16		6.3	B	1.5	
	mg/L	03/20/13	0.43	--	2.6	B	6.6	B	14		7.3	B	1.5	
	mg/L	09/18/13	2.2	--	2.4	J	5.0		13		5.9		ND	
	mg/L	03/27/14	2.2	--	2.4	J	23		3.7	J	5.2		ND	
	mg/L	09/18/14	2.2	--	2.6	J	8.9		3.1	J	5.4		ND	
Total Dissolved Solids	mg/L	03/24/09	10	--	86		310		190		140		ND	
NC 2L = 1000 mg/L	mg/L	09/22/09	10	--	66		280		160		130		ND	
EPA MCL = No Standard	mg/L	03/24/10	10	--	22		110		170		140		ND	
	mg/L	09/22/10	10	--	40		110		160		190		ND	
	mg/L	03/16/11	10	--	46		ND		160		120		ND	
	mg/L	09/21/11	10	--	16		--		200		140		ND	
	mg/L	03/21/12	10	--	18		190		190		140		ND	
	mg/L	09/20/12	10	--	200		170		120		110		ND	
	mg/L	03/20/13	10	--	46		270		260		260		ND	
	mg/L	09/18/13	10	--	ND		110		180		180		ND	
	mg/L	03/27/14	10	--	ND		300		110		170		ND	
	mg/L	09/18/14	10	--	ND		180		98		180		ND	
Sulfate as SO4	mg/L	03/24/09	0.078	250	1.5	J	150	J	18	J	3.0	J	ND	
NC 2L = 250 mg/L	mg/L	09/22/09	0.078	250	1.7	J	100	J	17	J	3.9	J	ND	
EPA MCL = No Standard	mg/L	03/24/10	0.12	250	ND		5.3	J	16	J	2.1	J	ND	
	mg/L	09/22/10	0.12	250	ND		4.8	J	5.4	J	4.9	J	ND	
	mg/L	03/16/11	0.02	250	1.9	J	ND	J	7.3	J	3.9	J	ND	
	mg/L	09/21/11	0.02	250	1.7	B	--		14	J	4.2	B	1.7	J
	mg/L	03/21/12	0.04	250	1.5	J	46	J	18	J	6.3	J	ND	
	mg/L	09/20/12	0.04	250	1.9	J	66	J	18	J	9.9	J	ND	
	mg/L	03/20/13	0.04	250	1.6	J	32	J	16	J	12	J	ND	
	mg/L	09/18/13	0.04	250	1.60	B	18.0	J	14.0	J	15.0	J	1.50	J
	mg/L	03/27/14	2.9	250	ND		83.0	J	ND		14.0	J	ND	
	mg/L	09/18/14	2.9	250	ND		49	J	ND		16	J	ND	
Total Alkalinity	mg/L	03/24/09	8.3	--	17		18		80		65		ND	
SWS GPS / NC 2L = No Standard	mg/L	09/22/09	8.3	--	12	J	41		76		68		ND	
EPA MCL = No Standard	mg/L	03/24/10	8.0	--	9.6	J	57		76		75		ND	
	mg/L	09/22/10	8	--	ND		46		86		100		ND	
	mg/L	03/16/11	12	--	ND		ND		94		96		ND	
	mg/L	09/21/11	12	--	ND		--		90		90		ND	
	mg/L	03/21/12	12	--	14	J	51		87		100		ND	
	mg/L	09/20/12	12	--	19		53		86		100		ND	
	mg/L	03/20/13	12	--	15		69		96		110		ND	
	mg/L	09/18/13	14	--	ND		77.0		110		110		ND	
	mg/L	03/27/14	14000	--	ND		84.0		94.0		110		ND	
	mg/L	09/18/14	14	--	ND		96		83		110		ND	

Notes:
ug/L = micrograms per liter
mg/L = milligrams per liter
ND = Not detected at the stated reporting limit
J = estimated concentration
B = Blank-qualified result
-- = no data available
= EPA Action Level
* = EPA Secondary MCL
MDL = laboratory method detection limit
Blanks = field, trip and method blanks
Bold = concentrations above the NC 2L Groundwater Standards or Solid Waste Section Groundwater Protection Standards (SWS GPS) have been bolded
Shaded = concentrations above the EPA Maximum Contaminant Level (MCL) has 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.

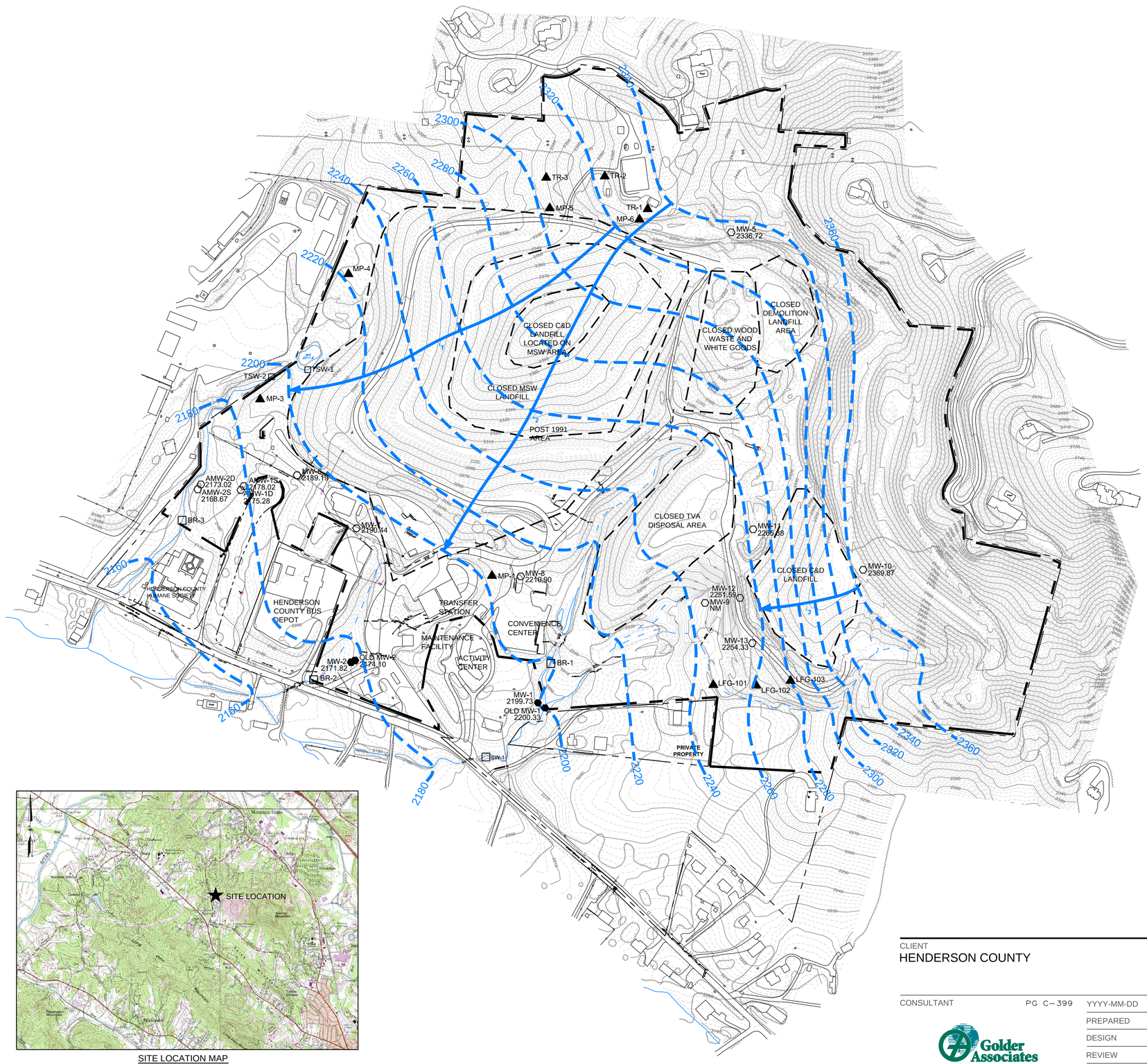
TABLE 9

Summary of Field Parameters for C&D Monitoring Wells
Henderson County Closed C&D Landfill, Permit No. 45-01

Detected Monitoring Constituent/Parameter	Units	Date	Upgradient Well	Downgradient Wells		
			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
	S.U.	03/26/14	4.65	5.42	4.94	6.03
(Verification Event)	S.U.	05/28/14	--	5.46	5.96	6.12
	S.U.	09/18/14	7.11	5.30	5.75	6.66
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
	uS/cm	03/26/14	54	493	227	310
(Verification Event)	uS/cm	05/28/14	--	430	211	307
	uS/cm	09/18/14	63	407	221	318
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
	Celsius	03/26/14	11.5	14.8	13.8	13.5
(Verification Event)	Celsius	05/28/14	--	16.9	18.6	17.2
	Celsius	09/18/14	13.9	21.9	14.9	14.5
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
	NTU	03/26/14	4.60	15.5	1.93	2.55
(Verification Event)	NTU	05/28/14	--	13.0	44.6	121
	NTU	09/18/14	1.78	8.31	1.01	16.0

Notes:
NTU = Nephelometric Turbidity Units
mV = millivolts
S.U. = Standard Units
-- = no data available
1) Historical data prior to March 2009 provided by Henderson County and CDM.

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
i_1	APPROXIMATE GROUNDWATER FLOW SEGMENT USED TO CALCULATE GRADIENT
MW-8 2210.90	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
NM	NOT MEASURED

NOTES

1. TOPOGRAPHIC CONTOUR INTERVAL = 2 FEET
2. GROUNDWATER SURFACE CONTOUR INTERVAL = 20 FEET
3. GROUNDWATER ELEVATIONS MEASURED ON SEPTEMBER 17, 2014.
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.

0 200 400
SCALE FEET

CLIENT
HENDERSON COUNTY

CONSULTANT PG C–399

Golder Associates
GOLDER ASSOCIATES NC, INC.

YYYY-MM-DD	2014-06-13
PREPARED	LKB
DESIGN	DYR
REVIEW	DYR
APPROVED	RPK

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

TITLE
GROUNDWATER SURFACE CONTOUR MAP
SEPTEMBER 17, 2014

PROJECT No.	PHASE	Rev.	TITLE
0839650614	100	0	DRAWING 1

Path: \\greensboro\CAD\Projects\08396506 - Henderson\ENVIRONMENTAL\ | File Name: 0839650613 (11-7-2014).dwg

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D
1 in

APPENDIX A

GROUNDWATER AND SURFACE WATER SAMPLING LOGS

DATE: 9/17/14

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.* **Project No./Phase No.:** *0839650614*
Well ID: mw-5 **Sampler(s):** *B. Freyer, A. Stoddard*
Well Diameter: 2 inches **Int. Depth to Water:** 53.10 feet
Depth to Bottom: 74.00 feet **Total Water Column:** 20.90 feet
Well Volume: 3.40 gallons **3x Well Volume:** 10.20 gallons
Well Location: on hill above green waste area
Equipment: *Oakton 10, water level meter, Hach 2100P turbidimeter,*

	Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
	0906	5.03	0.167	736	14.7	0
	0912	5.14	0.167	613	14.6	3.40
	0922	5.14	0.159	162	14.4	6.80
	0932	5.16	0.157	323	14.7	10.20
		0935 - allow well to recharge				
9/18/14	0855	6.49	0.180	0.75	14.5	—

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

Signature: [signature] **Date:** 9/18/14

QA/QC Sign Off: [signature] **Date:** 11-20-14

DATE: 9/17/14

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.* **Project No./Phase No.:** *0839650614*
Well ID: MW-6 **Sampler(s):** *B. Freyer, A. Stoddard*
Well Diameter: 2 inches **Int. Depth to Water:** 15.05 feet
Depth to Bottom: 19.26 feet **Total Water Column:** 4.21 feet
Well Volume: 0.69 gallons **3x Well Volume:** 2.07 gallons
Well Location: along entrance road, behind fence
Equipment: *Oakton 10, water level meter, Hach 2100P turbidimeter,*

	Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
	1251	5.96	1.028	48.6	18.0	Ø
	1253	6.12	1.243	500	17.5	0.7
	1255	6.21	1.538	>1000	16.8	1.4
	1301	6.22	1.623	>1000	17.0	2.1
	1301 - allow well to recharge					
9-18-14	1217	6.63	1.797	65.4	18.6	—

Comments (weather conditions, color, type of sample, purge-water management, etc.):
70's, mostly cloudy, breeze
very strong organic odor to purge water

Signature: [signature] **Date:** 9/18/14

QA/QC Sign Off: [signature] **Date:** 11-20-14

DATE: 9-17-14

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.*
Project No./Phase No.: *0839650614*
Well ID: MW-7 (MS/MSD)
Sampler(s): *B. Freyer, A. Stoddard*
Well Diameter: 2 inches
Int. Depth to Water: 20.22 feet
Depth to Bottom: 28.11 feet
Total Water Column: 7.89 feet
Well Volume: 1.29 gallons
3x Well Volume: 3.87 gallons
Well Location: next to scalehouse
Equipment: *Oakton 10, water level meter, Hach 2100P turbidimeter,*

	Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
	11:41	6.20	0.570	10.7	17.3	0
	1144	5.97	0.577	44.5	17.1	1.29
	1146	6.01	0.644	53.4	17.0	2.58
	1150	6.20	0.774	90.9	17.5	3.87
		Allow to Recharge				
9-18-14	1035	6.50	0.649	0.58	17.7	—

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

Signature: [signature] **Date:** 9-18-14

QA/QC Sign Off: [signature] **Date:** 11-20-14

DATE: 9-17-14

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.*
Project No./Phase No.: *0839650614*
Well ID: MW-8
Sampler(s): *B. Freyer, A. Stoddard*
Well Diameter: 2 inches
Int. Depth to Water: 24.97 feet
Depth to Bottom: ~~31.30~~ AS 31.30 feet
Total Water Column: 6.33 feet
Well Volume: 1.00 gallons
3x Well Volume: 3.00 gallons
Well Location: next to tire drop-off area
Equipment: *Oakton 10, water level meter, Hach 2100P turbidimeter,*

	Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
	1121	6.18	1.067	16.6	16.8	0
	1124	6.26	1.064	39.7	16.6	1
	1127	6.26	1.063	29.4	16.4	2
	1130	6.25	1.039	25.0	16.5	3
		1130 - allow well to recharge				
9-18-14	1000	6.14	0.6055	1.80	16.8	—

Comments (weather conditions, color, type of sample, purge-water management, etc.):
60's, cloudy, calm
+filtered sample collected in addition to total metals

Signature: Amber Stoddard **Date:** 9-18-14

QA/QC Sign Off: [illegible] **Date:** 11-20-14

DATE: 9-17-14

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.* **Project No./Phase No.:** *0839650614*
Well ID: AMW-1S **Sampler(s):** *B. Freyer, A. Stoddard*
Well Diameter: 2 inches **Int. Depth to Water:** 15.07 feet
Depth to Bottom: 29.01 feet **Total Water Column:** 13.94 feet
Well Volume: 2.27 gallons **3x Well Volume:** 6.81 gallons
Well Location: Nested with AMW-1D behind animal shelter
Equipment: *Oakton 10, water level meter, Hach 2100P turbidimeter,*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
1333	5.85	0.201	18.2	16.7	0
1338	5.88	0.315	22.9	17.0	2.27
1341	6.02	0.424	33.6	17.1	4.54
1346	6.07	0.461	25.1	16.7	6.81
	Allow to Recharge				
9-18-14 ↳ 1325	6.15	0.200	1.41	17.2	—

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

Signature: [signature] **Date:** 9-19-14

QA/QC Sign Off: [signature] **Date:** 11-20-14

DATE: 9-17-14

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.*
Project No./Phase No.: *0839650614*
Well ID: AMW-10
Sampler(s): *B. Freyer, A. Stoddard*
Well Diameter: _____ inches
Int. Depth to Water: 15.49 feet
Depth to Bottom: 62.88 feet
Total Water Column: 47.39 feet
Well Volume: 7.72 gallons
3x Well Volume: 23.16 gallons
Well Location: in clearing along entrance road near animal shelter
Equipment: *Oakton 10, water level meter, Hach 2100P turbidimeter,*

	Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
	1340	8.19	0.597	2.89	16.5	0
	1352	6.24	0.521	4.65	14.4	7.72
	1410	6.04	0.707	5.90	14.5	15.44
	1424	5.96	0.728	3.23	14.5	23.16
		1424 - allow well to recharge				
9-18-14	1320	6.49	0.749	0.55	17.4	—

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

Signature: Anna Stoddard **Date:** 9-18-14

QA/QC Sign Off: [illegible] **Date:** 11-20-14

Golder Associates

DATE: 9/17/14

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.* **Project No./Phase No.:** *0839650614*
Well ID: AMW-2s **Sampler(s):** *B. Freyer, A. Stoddard*
Well Diameter: 2 inches **Int. Depth to Water:** 8.99 feet
Depth to Bottom: 25.30 feet **Total Water Column:** 16.31 feet
Well Volume: 2.66 gallons **3x Well Volume:** 7.98 gallons
Well Location: in treeline behind animal shelter
Equipment: *Oakton 10, water level meter, Hach 2100P turbidimeter,*

	Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
	1441	6.45	0.264	163	15.1	Ø
	1448	6.04	0.281	111	14.8	2.7
	1455	5.95	0.277	360	14.5	5.4
	1509	6.07	0.363	488	14.6	8
	1509 - allow well to recharge					
9-18-14	1305	7.40	0.347	4.41	18.6	—

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

Signature: Aaron Stoddard **Date:** 9-18-14

QA/QC Sign Off: [illegible] **Date:** 11-20-14

DATE: 9-17-14

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.* **Project No./Phase No.:** *0839650614*
Well ID: AMW-2D **Sampler(s):** *B. Freyer, A. Stoddard*
Well Diameter: 2 **inches** **Int. Depth to Water:** 4.56 **feet**
Depth to Bottom: 84.05 **feet** **Total Water Column:** 79.49 **feet**
Well Volume: 13.00 **gallons** **3x Well Volume:** 39.00 **gallons**
Well Location: Nested with AMW-2S in woods behind animal shelter
Equipment: *Oakton 10, water level meter, Hach 2100P turbidimeter,*

	Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
	1400	6.71	0.143	10.3	18.6	0
	1420	6.37	0.147	14.7	14.2	13
	1455	6.58	0.151	26.8	14.9	26
	1526	6.36	0.147	5.21	14.4	39
	1526 - allow well to recharge					
9-18-14	1315	6.77	0.114	0.63	19.2	—

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

Signature: Anna Stoddard **Date:** 9-18-14

QA/QC Sign Off: [illegible] **Date:** 11-20-14

Golder Associates

DATE: 9-17-14

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.*
Project No./Phase No.: *0839650614*
Well ID: MW-10
Sampler(s): *B. Freyer, A. Stoddard*
Well Diameter: 2 inches
Int. Depth to Water: 34.68 feet
Depth to Bottom: 40.00 feet
Total Water Column: 5.32 feet
Well Volume: 0.87 gallons
3x Well Volume: 2.61 gallons
Well Location: On hill above convenience center
Equipment: *Oakton 10, water level meter, Hach 2100Q turbidimeter,*

	Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
	0826	5.96	0.041	2.80	14.4	0
	0830	5.31	0.035	>1000	14.1	0.87
	0833	5.21	0.037	>1000	14.6	1.74
	0835	5.12	0.037	>1000	14.4	2.61
		Allow well to recharge				
9-18-14	0830	7.11	0.063	1.78	13.9	—

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

Signature: Anna Stoddard
Date: 9-18-14

QA/QC Sign Off: [illegible]
Date: 11-26-14

DATE: 9-18-14

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.*
Project No./Phase No.: *0839650614*
Well ID: *MW-11*
Sampler(s): *B. Freyer, A. Stoddard*
Well Diameter: 2 inches
Initial Depth to Water: 42.34 feet
Depth to Bottom: 58.49 feet
Water Column Thickness: feet
Pumping Rate: 100 mL/min.
System Volume: 1000 mL
Well Location: In pavement @ convenience center (flush mount)
Equipment: *YSI ProPlus, Hach 2100Q turbidimeter, WL meter, portable bladder pump*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O_2 (mg/L)	Temp. (°C)	ORP (millivolts)	DTW (feet)
1354	5.90	0.380	25.2	4.17	21.4	42.0	43.31
1359	5.20	0.415	12.8	0.67	20.9	86.0	43.35
1404	5.22	0.408	8.17	0.55	21.5	82.0	43.41
1409	5.30	0.407	8.31	0.55	21.9	70.0	43.60
		sampled @	1409				

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

Signature: Anna Stoddard
Date: 9-18-14

QA/QC Sign Off: Paul S Reeg
Date: 11-20-14

DATE: 9-17-14

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.* **Project No./Phase No.:** *0839650614*
Well ID: MW-12 **Sampler(s):** *B. Freyer, A. Stoddard*
Well Diameter: 2 inches **Int. Depth to Water:** 48.50 feet
Depth to Bottom: 62.90 feet **Total Water Column:** 14.40 feet
Well Volume: 2.34 gallons **3x Well Volume:** 7.02 gallons
Well Location: Along access Road to convenience center
Equipment: *Oakton 10, water level meter, Hach 2100Q turbidimeter,*

	Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
	1015	5.44	0.180	72.5	15.5	0
	1020	5.23	0.232	58.2	15.3	2.34
	1022	5.34	0.294	65.3	15.1	4.68
	1035	5.44	0.314	54.9	15.3	7.02
		1035 - allow well to recharge				
9/18/14	0935	5.75	0.221	1.01	14.9	—

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

Signature: Anna Stoddard **Date:** 9-18-14

QA/QC Sign Off: Kelly Reay **Date:** 11-20-14

DATE: 9/17/14

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *Henderson Co.* **Project No./Phase No.:** *0839650614*
Well ID: MW-13 **Sampler(s):** *B. Freyer, A. Stoddard*
Well Diameter: 2 inches **Int. Depth to Water:** 42.00 feet
Depth to Bottom: 91.11 feet **Total Water Column:** 49.11 feet
Well Volume: 8.00 gallons **3x Well Volume:** 24.00 gallons
Well Location: uphill along entrance road to convenience center
Equipment: *Oakton 10, water level meter, Hach 2100P turbidimeter,*

	Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (°C)	Vol. (gallons)
	1007	5.74	0.318	20.6	14.5	Ø
	1021	5.74	0.231	15.4	14.1	8
	1034	5.43	0.194	13.1	14.1	16
	1056	5.65	0.272	83.6	14.4	24
		1056- allow well to recharge				
9/18/14	0925	6.66	0.318	16.0	14.5	–

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

Signature: B. Freyer **Date:** 9/18/14

QA/QC Sign Off: [illegible] **Date:** 11-20-14

DATE: 9-18-14

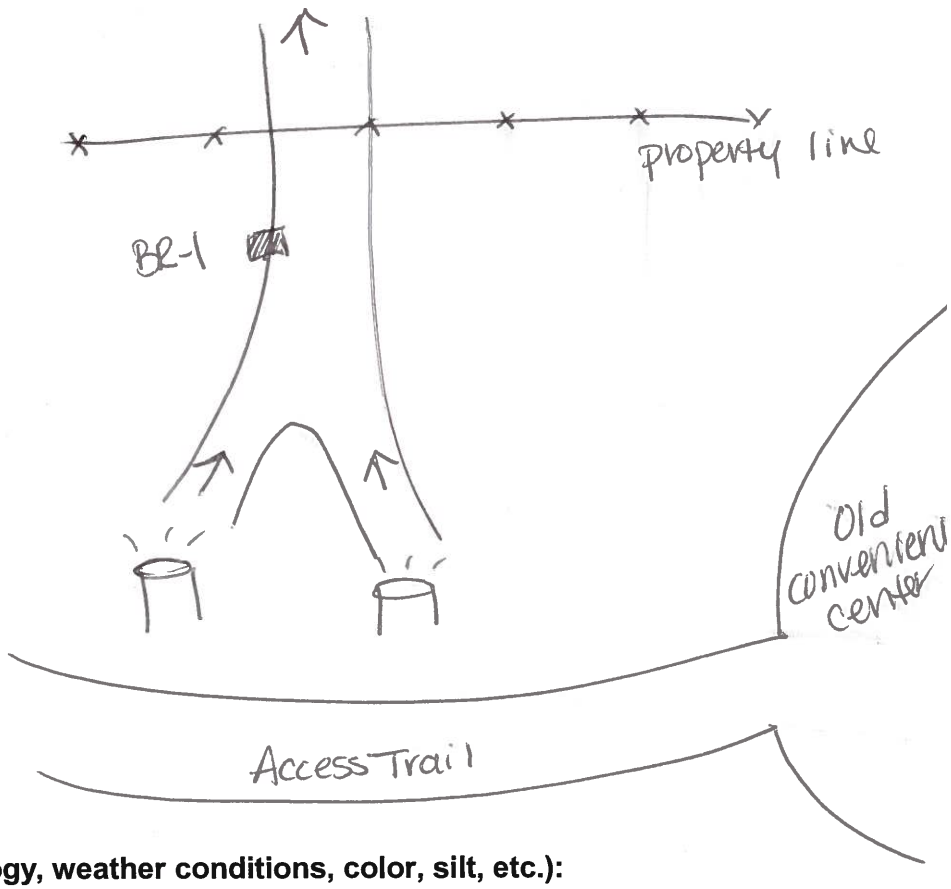
Golder Associates

SURFACE WATER SAMPLING LOG

Project Name: *Henderson Co.* **Project No./Phase No.:** *0839650614*
Sample ID: BR-1 **Sampler(s):** *B. Freyer, A. Stoddard*
Sampling Location:
Equipment: *YSI ProPlus, Hach 2100P Turbidimeter*

Time	1016
pH s.u.	7.57
Cond. mS/cm	0.401
Turb. ntu	2.32
Dis. O_2 mg/L	0.17
Temp. °C	17.8
ORP mv	86.8

Surface Water Sampling Location Sketch



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

Signature: Amber Stoddard **Date:** 9-18-14

QA/QC Sign Off: [illegible] **Date:** 11-20-14

DATE: 9/18/14

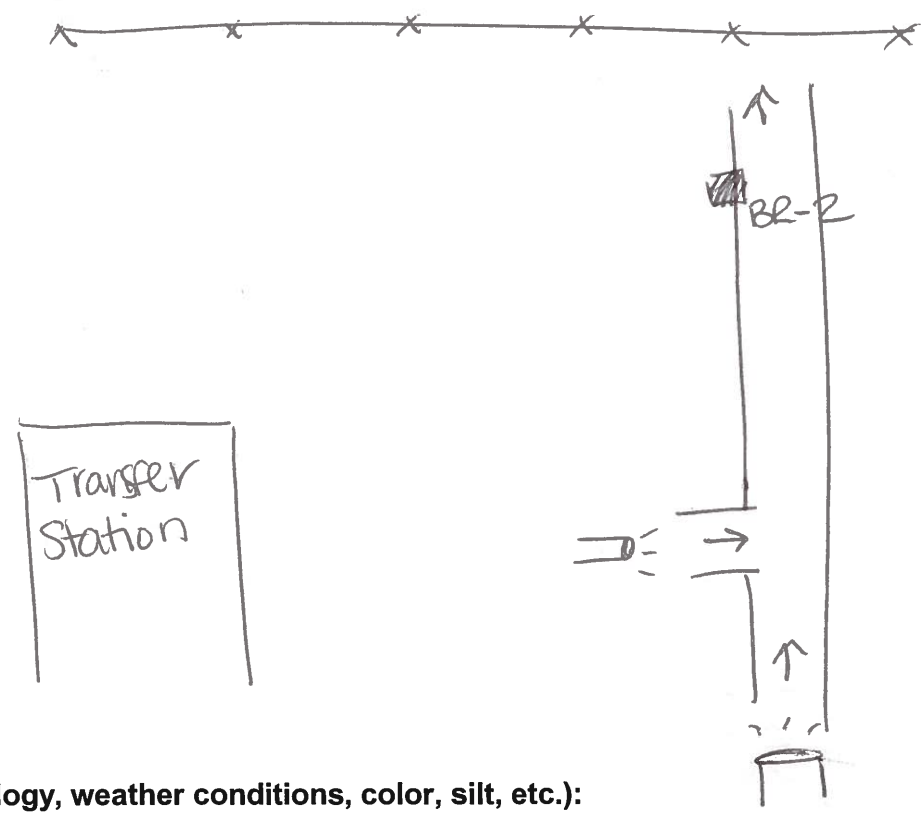
Golder Associates

SURFACE WATER SAMPLING LOG

Project Name: *Henderson Co.* **Project No./Phase No.:** *0839650614*
Sample ID: BR-2 **Sampler(s):** *B. Freyer, A. Stoddard*
Sampling Location: stream exiting property, near old entrance
Equipment: *YSI ProPlus, Hach 2100P Turbidimeter*

Time	0805
pH s.u.	6.54
Cond. mS/cm	0.691
Turb. ntu	4.95
Dis. O_2 mg/L	5.45
Temp. °C	17.3
ORP mv	66.5

Surface Water Sampling Location Sketch



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

Signature: [signature] **Date:** 9/18/14

QA/QC Sign Off: [signature] **Date:** 11-20-14

DATE: 9-18-14

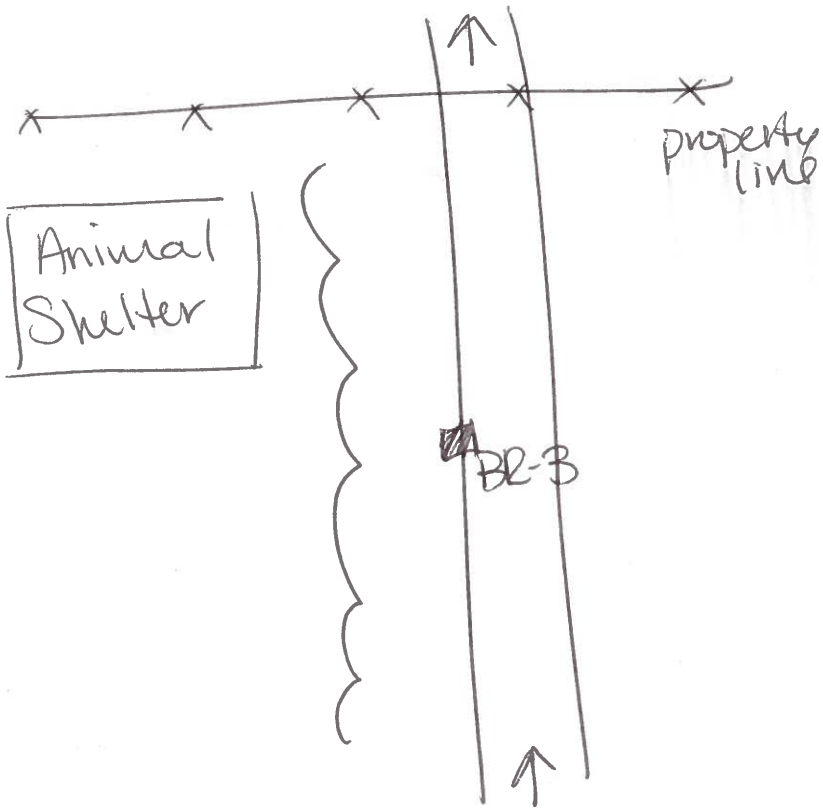
Golder Associates

SURFACE WATER SAMPLING LOG

Project Name: *Henderson Co.* **Project No./Phase No.:** *0839650614*
Sample ID: BR-3 **Sampler(s):** *B. Freyer, A. Stoddard*
Sampling Location: In woods behind animal shelter @ property line
Equipment: *YSI ProPlus, Hach 2100P Turbidimeter*

Time	1255
pH s.u.	6.85
Cond. mS/cm	2.212
Turb. ntu	1.46
Dis. O_2 mg/L	6.38
Temp. °C	17.9
ORP mv	45.0

Surface Water Sampling Location Sketch



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

Signature: Anna Stoddard **Date:** 9-18-14

QA/QC Sign Off: [illegible] **Date:** 11-20-14

DATE: 9/18/14

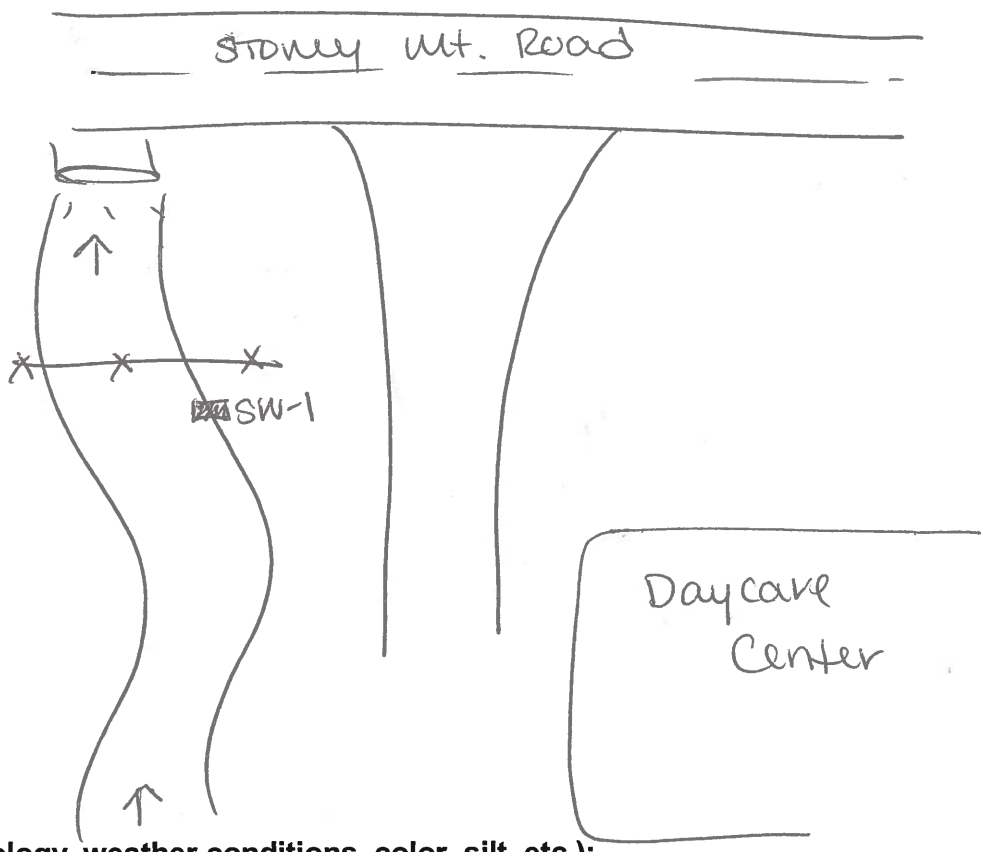
Golder Associates

SURFACE WATER SAMPLING LOG

Project Name: *Henderson Co.* **Project No./Phase No.:** *0839650614*
Sample ID: SW-1 **Sampler(s):** *B. Freyer, A. Stoddard*
Sampling Location: stream exiting property near school building
Equipment: *YSI ProPlus, Hach 2100P Turbidimeter*

Time	0757
pH s.u.	6.31
Cond. mS/cm	0.345
Turb. ntu	2.84
Dis. O_2 mg/L	6.12
Temp. °C	16.6
ORP mv	179.9

Surface Water Sampling Location Sketch



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

Signature: [signature] **Date:** 9/18/14

QA/QC Sign Off: [signature] **Date:** 11-20-14

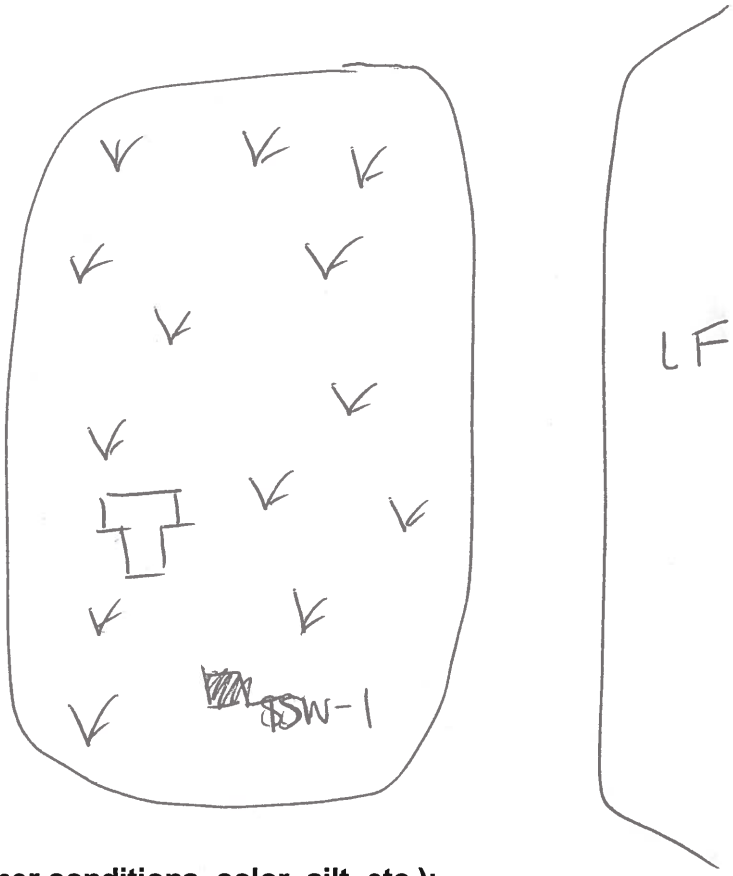
DATE: 9/18/14

SURFACE WATER SAMPLING LOG

Project Name: *Henderson Co.* **Project No./Phase No.:** *0839650614*
Sample ID: TSW-1 **Sampler(s):** *B. Freyer, A. Stoddard*
Sampling Location: wetland/sed pond
Equipment: *YSI ProPlus, Hach 2100P 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.):
dry, not sampled

Signature: [signature] **Date:** 9/18/14

QA/QC Sign Off: [signature] **Date:** 11-20-14

DATE: 9/18/14

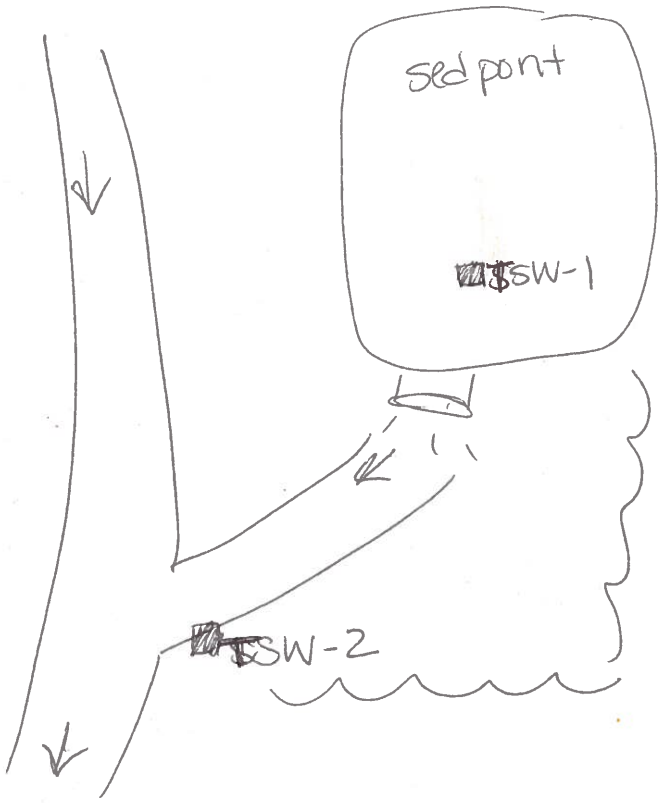
Golder Associates

SURFACE WATER SAMPLING LOG

Project Name: *Henderson Co.* **Project No./Phase No.:** *0839650614*
Sample ID: TSW-2 **Sampler(s):** *B. Freyer, A. Stoddard*
Sampling Location: Stream below TSW-1
Equipment: *YSI ProPlus, Hach 2100P Turbidimeter*

Time	1510
pH s.u.	6.24
Cond. mS/cm	3.039
Turb. ntu	8.27
Dis. O_2 mg/L	6.66
Temp. °C	17.1
ORP mv	26.7

Surface Water Sampling Location Sketch



Comments (sample methodology, weather conditions, color, silt, etc.):
70's; cloudy, calm

Signature: Anna Stoddard **Date:** 7-18-14

QA/QC Sign Off: Andy Reed **Date:** 11-20-14

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

Friday, October 3, 2014

Golder Associates, Inc. (GO007)

Attn: Dusty Reedy

5B Oak Branch Drive

Greensboro, NC 27407

RE: Laboratory Results for
Project Number: 08396506014.100, Project Name/Desc: Henderson Co. LF
ENCO Workorder(s): C410921

Dear Dusty Reedy,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, September 19, 2014.

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

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

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

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

Sincerely,

Stephanie Franz

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 80.

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PROJECT NARRATIVE

Date: 03 October 2014
Client: Golder Associates, Inc. (GO007)
Project: Henderson Co. LF
Lab ID: C410921

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 recovery of 2,4-D was outside of control limits for the 8151 A MS sample, and precision between duplicates spikes exceeded acceptance criteria. The QC batch was approved based on acceptable LCS recovery of this analyte.

The spike recoveries of Manganese and Mercury were outside of control limits for the 6010C MS (Manganese) and the 7470A Post Spike sample (Mercury). The QC batches were approved based on acceptable LCS recovery of these elements.

Quality Control Remarks

The 8151A surrogate spike recovery of 2,4-DCAA was outside of control limits for the Field Blank. The sample was reprepped (outside of the EPA's recommended holding time) and reanalyzed. Both sets of results are included in this report.

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.

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

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4501-MW5 (Background) **Lab ID: C410921-01** **Sampled: 09/18/14 08:55** **Received: 09/19/14 10:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	03/17/15		09/22/14	11:27	9/24/2014	11:19
EPA 6020A	03/17/15		09/22/14	11:14	9/24/2014	11:23
EPA 7470A	10/16/14		09/22/14	15:35	9/26/2014	14:38
EPA 8260B	10/02/14		09/29/14	13:28	9/29/2014	14:08
EPA 8270D	09/25/14	11/01/14	09/22/14	12:56	9/24/2014	21:41

Client ID: 4501-MW6 **Lab ID: C410921-02** **Sampled: 09/18/14 12:17** **Received: 09/19/14 10:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	03/17/15		09/22/14	11:27	9/24/2014	11:21
EPA 6020A	03/17/15		09/22/14	11:14	9/24/2014	11:26
EPA 7470A	10/16/14		09/22/14	15:35	9/26/2014	14:40
EPA 8260B	10/02/14		09/29/14	13:28	9/29/2014	14:38
EPA 8270D	09/25/14	11/01/14	09/22/14	12:56	9/24/2014	22:12

Client ID: 4501-MW7 (MS/MSD) **Lab ID: C410921-03** **Sampled: 09/18/14 10:35** **Received: 09/19/14 10:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	03/17/15		09/22/14	11:27	9/24/2014	11:06
EPA 6020A	03/17/15		09/22/14	11:14	9/24/2014	11:05
EPA 7470A	10/16/14		09/22/14	15:35	9/26/2014	14:13
EPA 8260B	10/02/14		09/30/14	15:23	10/1/2014	05:20
EPA 8270D	09/25/14	11/01/14	09/22/14	12:56	9/24/2014	22:42

Client ID: 4501-MW8 **Lab ID: C410921-04** **Sampled: 09/18/14 10:00** **Received: 09/19/14 10:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	03/17/15		09/22/14	11:27	9/24/2014	11:24
EPA 6020A	03/17/15		09/22/14	11:14	9/24/2014	11:30
EPA 7470A	10/16/14		09/22/14	15:35	9/26/2014	14:42
EPA 8260B	10/02/14		09/29/14	14:29	9/29/2014	17:19
EPA 8270D	09/25/14	11/01/14	09/22/14	12:56	9/24/2014	23:13

Client ID: 4501-AMW1S **Lab ID: C410921-06** **Sampled: 09/18/14 13:25** **Received: 09/19/14 10:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	03/17/15		09/22/14	11:27	9/24/2014	11:34
EPA 6020A	03/17/15		09/22/14	11:14	9/24/2014	11:42
EPA 7470A	10/16/14		09/22/14	15:35	9/26/2014	14:44
EPA 8260B	10/02/14		09/29/14	14:29	9/29/2014	17:48

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Client ID: 4501-AMW1D	Lab ID: C410921-07	Sampled: 09/18/14 13:20	Received: 09/19/14 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/17/15	09/22/14 11:27	9/24/2014 11:37
EPA 6020A	03/17/15	09/22/14 11:14	9/24/2014 11:46
EPA 7470A	10/16/14	09/22/14 15:35	9/26/2014 14:46
EPA 8260B	10/02/14	09/29/14 14:29	9/29/2014 18:18

Client ID: 4501-AMW2S	Lab ID: C410921-08	Sampled: 09/18/14 13:05	Received: 09/19/14 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/17/15	09/22/14 11:27	9/24/2014 11:39
EPA 6020A	03/17/15	09/22/14 11:14	9/24/2014 11:50
EPA 8260B	10/02/14	09/29/14 14:29	9/29/2014 18:47

Client ID: 4501-AMW2S	Lab ID: C410921-08RE1	Sampled: 09/18/14 13:05	Received: 09/19/14 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 7470A	10/16/14	09/22/14 15:35	9/26/2014 15:01

Client ID: 4501-AMW2D	Lab ID: C410921-09	Sampled: 09/18/14 13:15	Received: 09/19/14 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/17/15	09/22/14 11:27	9/24/2014 11:42
EPA 6020A	03/17/15	09/22/14 11:14	9/24/2014 11:53
EPA 7470A	10/16/14	09/22/14 15:35	9/26/2014 14:54
EPA 8260B	10/02/14	09/29/14 14:29	9/29/2014 19:17

Client ID: 4501-BR1	Lab ID: C410921-10	Sampled: 09/18/14 10:16	Received: 09/19/14 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/17/15	09/22/14 11:27	9/24/2014 11:44
EPA 6020A	03/17/15	09/22/14 11:14	9/24/2014 11:57
EPA 8260B	10/02/14	09/29/14 14:29	9/29/2014 19:46

Client ID: 4501-BR2	Lab ID: C410921-11	Sampled: 09/18/14 08:05	Received: 09/19/14 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/17/15	09/22/14 11:27	9/24/2014 11:47
EPA 6020A	03/17/15	09/22/14 11:14	9/24/2014 12:01
EPA 8260B	10/02/14	09/29/14 14:29	9/29/2014 20:15

Client ID: 4501-BR3	Lab ID: C410921-12	Sampled: 09/18/14 12:55	Received: 09/19/14 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/17/15	09/22/14 11:27	9/24/2014 11:49
EPA 6020A	03/17/15	09/22/14 11:14	9/24/2014 12:04
EPA 8260B	10/02/14	09/29/14 14:29	9/29/2014 20:45

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Client ID: 4501-SW1	Lab ID: C410921-13	Sampled: 09/18/14 07:57	Received: 09/19/14 10:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	03/17/15		09/22/14	11:27	9/24/2014	11:52
EPA 6020A	03/17/15		09/22/14	11:14	9/24/2014	12:08
EPA 8260B	10/02/14		09/29/14	14:29	9/29/2014	21:14

Client ID: 4501-Field Blank	Lab ID: C410921-14	Sampled: 09/18/14 15:15	Received: 09/19/14 10:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	03/17/15		09/22/14	11:27	9/24/2014	11:55
EPA 6020A	03/17/15		09/22/14	11:14	9/24/2014	12:12
EPA 7470A	10/16/14		09/22/14	15:35	9/26/2014	14:56
EPA 8151A	09/25/14	11/02/14	09/23/14	14:30	9/27/2014	00:15
EPA 8260B	10/02/14		09/29/14	14:29	9/29/2014	21:43
EPA 8270D	09/25/14	11/01/14	09/22/14	12:56	9/24/2014	23:44

Client ID: 4501-Field Blank	Lab ID: C410921-14RE1	Sampled: 09/18/14 15:15	Received: 09/19/14 10:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 8151A	09/25/14	11/10/14	10/01/14	16:00	10/3/2014	14:02

Client ID: 4501-Trip Blank	Lab ID: C410921-15	Sampled: 09/18/14 07:57	Received: 09/19/14 10:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 8260B	10/02/14		09/29/14	14:32	9/30/2014	14:25

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4501-MW5 (Background) **Lab ID: C410921-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.319	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	31.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.106	J	1	0.100	1.00	1	ug/L	EPA 6010C	

Client ID: 4501-MW6 **Lab ID: C410921-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,2-Dichlorobenzene	2.9	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	
Acetone	24	J	1	1.2	5.0	100	ug/L	EPA 8260B	
Antimony - Total	0.275	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	482		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	4.6		1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	8.0		1	0.17	1.0	3	ug/L	EPA 8260B	
Chromium - Total	5.15	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	5.56	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	6.47	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Toluene	75		1	0.14	1.0	1	ug/L	EPA 8260B	
Zinc - Total	8.37	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW7 (MS/MSD) **Lab ID: C410921-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.43	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,2-Dichlorobenzene	0.81	J	1	0.19	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	15		1	0.19	1.0	1	ug/L	EPA 8260B	
Antimony - Total	0.874	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	453		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	1.1		1	0.15	1.0	1	ug/L	EPA 8260B	
Beryllium - Total	0.295	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.858	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chlorobenzene	10		1	0.17	1.0	3	ug/L	EPA 8260B	
Chromium - Total	1.95	J	1	1.40	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	5.0		1	0.15	1.0	5	ug/L	EPA 8260B	
Thallium - Total	0.145	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Vinyl chloride	1.1		1	0.32	1.0	1	ug/L	EPA 8260B	

Client ID: 4501-MW8 **Lab ID: C410921-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	1050		1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	2.65	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	5.11	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Thallium - Total	0.815	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Zinc - Total	16.8		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-AMW1S **Lab ID: C410921-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	5.51	J	1	5.40	10.0	10	ug/L	EPA 6010C	
Barium - Total	306		1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	1.07		1	0.100	1.00	1	ug/L	EPA 6010C	

Client ID: 4501-AMW1S **Lab ID: C410921-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Cadmium - Total	2.41		1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	1.68	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	9.65	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Thallium - Total	0.663	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	

Client ID: 4501-AMW1D **Lab ID: C410921-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.54	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,2-Dichlorobenzene	0.69	J	1	0.19	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	4.3		1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	16.5	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	5.6		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	
Toluene	2.0		1	0.14	1.0	1	ug/L	EPA 8260B	
Vinyl chloride	0.54	J	1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	22.7		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-AMW2S **Lab ID: C410921-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.96	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	0.86	J	1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	5.60	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.58	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	0.88	J	1	0.17	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	0.88	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	1.23	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	4.57	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 4501-AMW2S **Lab ID: C410921-08RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Mercury - Total	1.53		1	0.170	0.200	0.2	ug/L	EPA 7470A	

Client ID: 4501-AMW2D **Lab ID: C410921-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	2.15	J	1	1.00	10.0	100	ug/L	EPA 6010C	

Client ID: 4501-BR1 **Lab ID: C410921-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	25.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	

Client ID: 4501-BR2 **Lab ID: C410921-11**

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	
Barium - Total	128		1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	1.96	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Zinc - Total	5.11	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-BR3 **Lab ID: C410921-12**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes

Client ID: 4501-BR3 **Lab ID: C410921-12**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	185		1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	1.58	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Zinc - Total	9.98	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-SW1 **Lab ID: C410921-13**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	30.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	

Client ID: 4501-Field Blank **Lab ID: C410921-14**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	1.96	J	1	1.00	10.0	100	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

Description: 4501-MW5 (Background) **Lab Sample ID:** C410921-01 **Received:** 09/19/14 10:30
Matrix: Ground Water **Sampled:** 09/18/14 08:55 **Work Order:** C410921
Project: Henderson Co. LF **Sampled By:** A. Stoddard

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	09/29/14 14:08	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/29/14 14:08	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/29/14 14:08	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 14:08	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/29/14 14:08	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 14:08	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 14:08	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/29/14 14:08	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/29/14 14:08	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/29/14 14:08	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/29/14 14:08	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/29/14 14:08	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	09/29/14 14:08	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/29/14 14:08	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/29/14 14:08	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/29/14 14:08	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/29/14 14:08	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/29/14 14:08	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 14:08	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/29/14 14:08	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 14:08	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/29/14 14:08	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/29/14 14:08	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/29/14 14:08	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 14:08	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 14:08	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/29/14 14:08	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/29/14 14:08	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 14:08	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	09/29/14 14:08	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/29/14 14:08	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 14:08	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/29/14 14:08	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 14:08	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/29/14 14:08	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 14:08	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/29/14 14:08	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 14:08	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 14:08	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 14:08	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 14:08	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/29/14 14:08	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 14:08	MSZ	

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Description: 4501-MW5 (Background) | **Lab Sample ID:** C410921-01 | **Received:** 09/19/14 10:30

Matrix: Ground Water | **Sampled:** 09/18/14 08:55 | **Work Order:** C410921

Project: Henderson Co. LF | **Sampled By:** A. Stoddard

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	09/29/14 14:08	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/29/14 14:08	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	09/29/14 14:08	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	09/29/14 14:08	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*83 %*	*53-136*	*4I29021*	*EPA 8260B*	*09/29/14 14:08*	*MSZ*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*67-129*	*4I29021*	*EPA 8260B*	*09/29/14 14:08*	*MSZ*	
Toluene-d8	*40*	*1*	*50.0*	*81 %*	*59-134*	*4I29021*	*EPA 8260B*	*09/29/14 14:08*	*MSZ*	

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Description:	4501-MW5 (Background)	**Lab Sample ID:**	C410921-01	**Received:**	09/19/14 10:30
Matrix:	Ground Water	**Sampled:**	09/18/14 08:55	**Work Order:**	C410921
Project:	Henderson Co. LF	**Sampled By:**	A. Stoddard		

Semivolatile 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
Bis(2-Ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	09/24/14 21:41	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*42*	*1*	*50.0*	*83 %*	*10-149*	*4I22019*	*EPA 8270D*	*09/24/14 21:41*	*DFM*	
Nitrobenzene-d5	*39*	*1*	*50.0*	*78 %*	*10-149*	*4I22019*	*EPA 8270D*	*09/24/14 21:41*	*DFM*	
Terphenyl-d14	*49*	*1*	*50.0*	*98 %*	*10-188*	*4I22019*	*EPA 8270D*	*09/24/14 21:41*	*DFM*	

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Description:	4501-MW5 (Background)	**Lab Sample ID:**	C410921-01	**Received:**	09/19/14 10:30
Matrix:	Ground Water	**Sampled:**	09/18/14 08:55	**Work Order:**	C410921
Project:	Henderson Co. LF	**Sampled By:**	A. Stoddard		

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	09/26/14 14:38	T1D	

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Description: 4501-MW5 (Background) | **Lab Sample ID:** C410921-01 | **Received:** 09/19/14 10:30

Matrix: Ground Water | **Sampled:** 09/18/14 08:55 | **Work Order:** C410921

Project: Henderson Co. LF | **Sampled By:** A. Stoddard

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] ^	**0.319**	J	ug/L	1	0.220	2.00	6	EPA 6020A	09/24/14 11:23	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/24/14 11:19	VLO	
Barium [7440-39-3] ^	**31.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/24/14 11:19	VLO	
Beryllium [7440-41-7] ^	**0.106**	J	ug/L	1	0.100	1.00	1	EPA 6010C	09/24/14 11:19	VLO	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/24/14 11:19	VLO	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	09/24/14 11:19	VLO	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	09/24/14 11:19	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/24/14 11:19	VLO	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/24/14 11:19	VLO	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/24/14 11:19	VLO	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/24/14 11:19	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/24/14 11:19	VLO	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/24/14 11:23	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/24/14 11:19	VLO	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	09/24/14 11:19	VLO	

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:** C410921-02 | **Received:** 09/19/14 10:30

Matrix: Ground Water | **Sampled:** 09/18/14 12:17 | **Work Order:** C410921

Project: Henderson Co. LF | **Sampled By:** A. Stoddard

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	09/29/14 14:38	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/29/14 14:38	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/29/14 14:38	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 14:38	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/29/14 14:38	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 14:38	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 14:38	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/29/14 14:38	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/29/14 14:38	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	**2.9**	J	ug/L	1	0.19	1.0	5	EPA 8260B	09/29/14 14:38	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/29/14 14:38	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/29/14 14:38	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	**13**		ug/L	1	0.19	1.0	1	EPA 8260B	09/29/14 14:38	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/29/14 14:38	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/29/14 14:38	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/29/14 14:38	MSZ	
Acetone [67-64-1] ^	**24**	J	ug/L	1	1.2	5.0	100	EPA 8260B	09/29/14 14:38	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/29/14 14:38	MSZ	
Benzene [71-43-2] ^	**4.6**		ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 14:38	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/29/14 14:38	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 14:38	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/29/14 14:38	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/29/14 14:38	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/29/14 14:38	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 14:38	MSZ	
Chlorobenzene [108-90-7] ^	**8.0**		ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 14:38	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/29/14 14:38	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/29/14 14:38	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 14:38	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	09/29/14 14:38	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/29/14 14:38	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 14:38	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/29/14 14:38	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 14:38	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/29/14 14:38	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 14:38	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/29/14 14:38	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 14:38	MSZ	
Toluene [108-88-3] ^	**75**		ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 14:38	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 14:38	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 14:38	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/29/14 14:38	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 14:38	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/29/14 14:38	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/29/14 14:38	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	09/29/14 14:38	MSZ	

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

Lab Sample ID: C410921-02
Sampled: 09/18/14 12:17
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410921

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	09/29/14 14:38	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*83 %*	*53-136*	*4I29021*	*EPA 8260B*	*09/29/14 14:38*	*MSZ*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*67-129*	*4I29021*	*EPA 8260B*	*09/29/14 14:38*	*MSZ*	
Toluene-d8	*41*	*1*	*50.0*	*82 %*	*59-134*	*4I29021*	*EPA 8260B*	*09/29/14 14:38*	*MSZ*	

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Description: 4501-MW6 | **Lab Sample ID:** C410921-02 | **Received:** 09/19/14 10:30

Matrix: Ground Water | **Sampled:** 09/18/14 12:17 | **Work Order:** C410921

Project: Henderson Co. LF | **Sampled By:** A. Stoddard

Semivolatile 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
Bis(2-Ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	09/24/14 22:12	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*43*	*1*	*50.0*	*85 %*	*10-149*	*4I22019*	*EPA 8270D*	*09/24/14 22:12*	*DFM*	
Nitrobenzene-d5	*39*	*1*	*50.0*	*77 %*	*10-149*	*4I22019*	*EPA 8270D*	*09/24/14 22:12*	*DFM*	
Terphenyl-d14	*45*	*1*	*50.0*	*91 %*	*10-188*	*4I22019*	*EPA 8270D*	*09/24/14 22:12*	*DFM*	

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Description:	4501-MW6	**Lab Sample ID:**	C410921-02	**Received:**	09/19/14 10:30
Matrix:	Ground Water	**Sampled:**	09/18/14 12:17	**Work Order:**	C410921
Project:	Henderson Co. LF	**Sampled By:**	A. Stoddard		

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	09/26/14 14:40	T1D	

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Description: 4501-MW6 | **Lab Sample ID:** C410921-02 | **Received:** 09/19/14 10:30

Matrix: Ground Water | **Sampled:** 09/18/14 12:17 | **Work Order:** C410921

Project: Henderson Co. LF | **Sampled By:** A. Stoddard

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] ^	**0.275**	J	ug/L	1	0.220	2.00	6	EPA 6020A	09/24/14 11:26	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/24/14 11:21	VLO	
Barium [7440-39-3] ^	**482**		ug/L	1	1.00	10.0	100	EPA 6010C	09/24/14 11:21	VLO	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/24/14 11:21	VLO	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/24/14 11:21	VLO	
Chromium [7440-47-3] ^	**5.15**	J	ug/L	1	1.40	10.0	10	EPA 6010C	09/24/14 11:21	VLO	
Cobalt [7440-48-4] ^	**5.56**	J	ug/L	1	1.10	10.0	10	EPA 6010C	09/24/14 11:21	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/24/14 11:21	VLO	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/24/14 11:21	VLO	
Nickel [7440-02-0] ^	**6.47**	J	ug/L	1	1.80	10.0	50	EPA 6010C	09/24/14 11:21	VLO	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/24/14 11:21	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/24/14 11:21	VLO	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/24/14 11:26	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/24/14 11:21	VLO	
Zinc [7440-66-6] ^	**8.37**	J	ug/L	1	3.80	10.0	10	EPA 6010C	09/24/14 11:21	VLO	

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:** C410921-03 **Received:** 09/19/14 10:30

Matrix: Ground Water **Sampled:** 09/18/14 10:35 **Work Order:** C410921

Project: Henderson Co. LF **Sampled By:** A. Stoddard

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	10/01/14 05:20	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/01/14 05:20	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/01/14 05:20	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/01/14 05:20	MSZ	
1,1-Dichloroethane [75-34-3] ^	**0.43**	J	ug/L	1	0.13	1.0	5	EPA 8260B	10/01/14 05:20	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/01/14 05:20	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/01/14 05:20	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/01/14 05:20	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/01/14 05:20	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	**0.81**	J	ug/L	1	0.19	1.0	5	EPA 8260B	10/01/14 05:20	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/01/14 05:20	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/01/14 05:20	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	**15**		ug/L	1	0.19	1.0	1	EPA 8260B	10/01/14 05:20	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/01/14 05:20	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/01/14 05:20	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/01/14 05:20	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/01/14 05:20	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/01/14 05:20	MSZ	
Benzene [71-43-2] ^	**1.1**		ug/L	1	0.15	1.0	1	EPA 8260B	10/01/14 05:20	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/01/14 05:20	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/14 05:20	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/01/14 05:20	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/01/14 05:20	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/01/14 05:20	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/14 05:20	MSZ	
Chlorobenzene [108-90-7] ^	**10**		ug/L	1	0.17	1.0	3	EPA 8260B	10/01/14 05:20	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/01/14 05:20	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/01/14 05:20	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/01/14 05:20	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**5.0**		ug/L	1	0.15	1.0	5	EPA 8260B	10/01/14 05:20	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/01/14 05:20	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/01/14 05:20	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/01/14 05:20	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/01/14 05:20	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/01/14 05:20	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/01/14 05:20	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/01/14 05:20	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/01/14 05:20	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/01/14 05:20	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/01/14 05:20	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/14 05:20	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/01/14 05:20	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/01/14 05:20	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/01/14 05:20	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/01/14 05:20	MSZ	
Vinyl chloride [75-01-4] ^	**1.1**		ug/L	1	0.32	1.0	1	EPA 8260B	10/01/14 05:20	MSZ	

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Description: 4501-MW7 (MS/MSD) | **Lab Sample ID:** C410921-03 | **Received:** 09/19/14 10:30

Matrix: Ground Water | **Sampled:** 09/18/14 10:35 | **Work Order:** C410921

Project: Henderson Co. LF | **Sampled By:** A. Stoddard

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	10/01/14 05:20	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*58*	*1*	*50.0*	*116 %*	*53-136*	*4I30019*	*EPA 8260B*	*10/01/14 05:20*	*MSZ*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*67-129*	*4I30019*	*EPA 8260B*	*10/01/14 05:20*	*MSZ*	
Toluene-d8	*60*	*1*	*50.0*	*120 %*	*59-134*	*4I30019*	*EPA 8260B*	*10/01/14 05:20*	*MSZ*	

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Description: 4501-MW7 (MS/MSD)	**Lab Sample ID:** C410921-03	**Received:** 09/19/14 10:30
Matrix: Ground Water	**Sampled:** 09/18/14 10:35	**Work Order:** C410921
Project: Henderson Co. LF	**Sampled By:** A. Stoddard	

Semivolatile 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
Bis(2-Ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	09/24/14 22:42	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*43*	*1*	*50.0*	*86 %*	*10-149*	*4I22019*	*EPA 8270D*	*09/24/14 22:42*	*DFM*	
Nitrobenzene-d5	*39*	*1*	*50.0*	*79 %*	*10-149*	*4I22019*	*EPA 8270D*	*09/24/14 22:42*	*DFM*	
Terphenyl-d14	*45*	*1*	*50.0*	*90 %*	*10-188*	*4I22019*	*EPA 8270D*	*09/24/14 22:42*	*DFM*	

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

Lab Sample ID: C410921-03
Sampled: 09/18/14 10:35
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410921

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	09/26/14 14:13	T1D	

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Description: 4501-MW7 (MS/MSD) **Lab Sample ID:** C410921-03 **Received:** 09/19/14 10:30

Matrix: Ground Water **Sampled:** 09/18/14 10:35 **Work Order:** C410921

Project: Henderson Co. LF **Sampled By:** A. Stoddard

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] ^	**0.874**	J	ug/L	1	0.220	2.00	6	EPA 6020A	09/24/14 11:05	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/24/14 11:06	VLO	
Barium [7440-39-3] ^	**453**		ug/L	1	1.00	10.0	100	EPA 6010C	09/24/14 11:06	VLO	
Beryllium [7440-41-7] ^	**0.295**	J	ug/L	1	0.100	1.00	1	EPA 6010C	09/24/14 11:06	VLO	
Cadmium [7440-43-9] ^	**0.858**	J	ug/L	1	0.360	1.00	1	EPA 6010C	09/24/14 11:06	VLO	
Chromium [7440-47-3] ^	**1.95**	J	ug/L	1	1.40	10.0	10	EPA 6010C	09/24/14 11:06	VLO	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	09/24/14 11:06	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/24/14 11:06	VLO	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/24/14 11:06	VLO	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/24/14 11:06	VLO	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/24/14 11:06	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/24/14 11:06	VLO	
Thallium [7440-28-0] ^	**0.145**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/24/14 11:05	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/24/14 11:06	VLO	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	09/24/14 11:06	VLO	

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-MW8 | **Lab Sample ID:** C410921-04 | **Received:** 09/19/14 10:30

Matrix: Ground Water | **Sampled:** 09/18/14 10:00 | **Work Order:** C410921

Project: Henderson Co. LF | **Sampled By:** A. Stoddard

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	09/29/14 17:19	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/29/14 17:19	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/29/14 17:19	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 17:19	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/29/14 17:19	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 17:19	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 17:19	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/29/14 17:19	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/29/14 17:19	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/29/14 17:19	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/29/14 17:19	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/29/14 17:19	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	09/29/14 17:19	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/29/14 17:19	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/29/14 17:19	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/29/14 17:19	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/29/14 17:19	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/29/14 17:19	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 17:19	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/29/14 17:19	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 17:19	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/29/14 17:19	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/29/14 17:19	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/29/14 17:19	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 17:19	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 17:19	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/29/14 17:19	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/29/14 17:19	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 17:19	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	09/29/14 17:19	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/29/14 17:19	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 17:19	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/29/14 17:19	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 17:19	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/29/14 17:19	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 17:19	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/29/14 17:19	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 17:19	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 17:19	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 17:19	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 17:19	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/29/14 17:19	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 17:19	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/29/14 17:19	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/29/14 17:19	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	09/29/14 17:19	MSZ	

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Description: 4501-MW8 | **Lab Sample ID:** C410921-04 | **Received:** 09/19/14 10:30

Matrix: Ground Water | **Sampled:** 09/18/14 10:00 | **Work Order:** C410921

Project: Henderson Co. LF | **Sampled By:** A. Stoddard

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	09/29/14 17:19	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*58*	*1*	*50.0*	*115 %*	*53-136*	*4I29027*	*EPA 8260B*	*09/29/14 17:19*	*MSZ*	
Dibromofluoromethane	*54*	*1*	*50.0*	*107 %*	*67-129*	*4I29027*	*EPA 8260B*	*09/29/14 17:19*	*MSZ*	
Toluene-d8	*58*	*1*	*50.0*	*117 %*	*59-134*	*4I29027*	*EPA 8260B*	*09/29/14 17:19*	*MSZ*	

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Description: 4501-MW8 | **Lab Sample ID:** C410921-04 | **Received:** 09/19/14 10:30

Matrix: Ground Water | **Sampled:** 09/18/14 10:00 | **Work Order:** C410921

Project: Henderson Co. LF | **Sampled By:** A. Stoddard

Semivolatile 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
Bis(2-Ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	09/24/14 23:13	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*44*	*1*	*50.0*	*89 %*	*10-149*	*4I22019*	*EPA 8270D*	*09/24/14 23:13*	*DFM*	
Nitrobenzene-d5	*42*	*1*	*50.0*	*84 %*	*10-149*	*4I22019*	*EPA 8270D*	*09/24/14 23:13*	*DFM*	
Terphenyl-d14	*49*	*1*	*50.0*	*99 %*	*10-188*	*4I22019*	*EPA 8270D*	*09/24/14 23:13*	*DFM*	

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Description:	4501-MW8	**Lab Sample ID:**	C410921-04	**Received:**	09/19/14 10:30
Matrix:	Ground Water	**Sampled:**	09/18/14 10:00	**Work Order:**	C410921
Project:	Henderson Co. LF	**Sampled By:**	A. Stoddard		

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	09/26/14 14:42	T1D	

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Description: 4501-MW8 | **Lab Sample ID:** C410921-04 | **Received:** 09/19/14 10:30

Matrix: Ground Water | **Sampled:** 09/18/14 10:00 | **Work Order:** C410921

Project: Henderson Co. LF | **Sampled By:** A. Stoddard

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	09/24/14 11:30	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/24/14 11:24	VLO	
Barium [7440-39-3] ^	**1050**		ug/L	1	1.00	10.0	100	EPA 6010C	09/24/14 11:24	VLO	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/24/14 11:24	VLO	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/24/14 11:24	VLO	
Chromium [7440-47-3] ^	**2.65**	J	ug/L	1	1.40	10.0	10	EPA 6010C	09/24/14 11:24	VLO	
Cobalt [7440-48-4] ^	**5.11**	J	ug/L	1	1.10	10.0	10	EPA 6010C	09/24/14 11:24	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/24/14 11:24	VLO	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/24/14 11:24	VLO	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/24/14 11:24	VLO	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/24/14 11:24	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/24/14 11:24	VLO	
Thallium [7440-28-0] ^	**0.815**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/24/14 11:30	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/24/14 11:24	VLO	
Zinc [7440-66-6] ^	**16.8**		ug/L	1	3.80	10.0	10	EPA 6010C	09/24/14 11:24	VLO	

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

Lab Sample ID: C410921-06
Sampled: 09/18/14 13:25
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410921

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	09/29/14 17:48	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/29/14 17:48	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/29/14 17:48	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 17:48	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/29/14 17:48	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 17:48	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 17:48	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/29/14 17:48	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/29/14 17:48	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/29/14 17:48	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/29/14 17:48	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/29/14 17:48	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	09/29/14 17:48	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/29/14 17:48	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/29/14 17:48	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/29/14 17:48	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/29/14 17:48	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/29/14 17:48	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 17:48	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/29/14 17:48	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 17:48	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/29/14 17:48	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/29/14 17:48	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/29/14 17:48	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 17:48	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 17:48	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/29/14 17:48	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/29/14 17:48	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 17:48	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	09/29/14 17:48	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/29/14 17:48	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 17:48	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/29/14 17:48	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 17:48	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/29/14 17:48	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 17:48	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/29/14 17:48	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 17:48	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 17:48	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 17:48	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 17:48	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/29/14 17:48	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 17:48	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/29/14 17:48	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/29/14 17:48	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	09/29/14 17:48	MSZ	

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Description: 4501-AMW1S	**Lab Sample ID:** C410921-06	**Received:** 09/19/14 10:30
Matrix: Ground Water	**Sampled:** 09/18/14 13:25	**Work Order:** C410921
Project: Henderson Co. LF	**Sampled By:** A. Stoddard	

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	09/29/14 17:48	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*58*	*1*	*50.0*	*116 %*	*53-136*	*4I29027*	*EPA 8260B*	*09/29/14 17:48*	*MSZ*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*67-129*	*4I29027*	*EPA 8260B*	*09/29/14 17:48*	*MSZ*	
Toluene-d8	*57*	*1*	*50.0*	*114 %*	*59-134*	*4I29027*	*EPA 8260B*	*09/29/14 17:48*	*MSZ*	

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Description:	4501-AMW1S	**Lab Sample ID:**	C410921-06	**Received:**	09/19/14 10:30
Matrix:	Ground Water	**Sampled:**	09/18/14 13:25	**Work Order:**	C410921
Project:	Henderson Co. LF	**Sampled By:**	A. Stoddard		

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	09/26/14 14:44	T1D	

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

Lab Sample ID: C410921-06
Sampled: 09/18/14 13:25
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410921

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	09/24/14 11:42	VLO	
Arsenic [7440-38-2] ^	**5.51**	J	ug/L	1	5.40	10.0	10	EPA 6010C	09/24/14 11:34	VLO	
Barium [7440-39-3] ^	**306**		ug/L	1	1.00	10.0	100	EPA 6010C	09/24/14 11:34	VLO	
Beryllium [7440-41-7] ^	**1.07**		ug/L	1	0.100	1.00	1	EPA 6010C	09/24/14 11:34	VLO	
Cadmium [7440-43-9] ^	**2.41**		ug/L	1	0.360	1.00	1	EPA 6010C	09/24/14 11:34	VLO	
Chromium [7440-47-3] ^	**1.68**	J	ug/L	1	1.40	10.0	10	EPA 6010C	09/24/14 11:34	VLO	
Cobalt [7440-48-4] ^	**9.65**	J	ug/L	1	1.10	10.0	10	EPA 6010C	09/24/14 11:34	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/24/14 11:34	VLO	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/24/14 11:34	VLO	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/24/14 11:34	VLO	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/24/14 11:34	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/24/14 11:34	VLO	
Thallium [7440-28-0] ^	**0.663**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/24/14 11:42	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/24/14 11:34	VLO	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	09/24/14 11:34	VLO	

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: C410921-07
Sampled: 09/18/14 13:20
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410921

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	09/29/14 18:18	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/29/14 18:18	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/29/14 18:18	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 18:18	MSZ	
1,1-Dichloroethane [75-34-3] ^	**0.54**	J	ug/L	1	0.13	1.0	5	EPA 8260B	09/29/14 18:18	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 18:18	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 18:18	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/29/14 18:18	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/29/14 18:18	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	**0.69**	J	ug/L	1	0.19	1.0	5	EPA 8260B	09/29/14 18:18	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/29/14 18:18	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/29/14 18:18	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	**4.3**		ug/L	1	0.19	1.0	1	EPA 8260B	09/29/14 18:18	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/29/14 18:18	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/29/14 18:18	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/29/14 18:18	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/29/14 18:18	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/29/14 18:18	MSZ	
Benzene [71-43-2] ^	**1.1**		ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 18:18	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/29/14 18:18	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 18:18	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/29/14 18:18	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/29/14 18:18	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/29/14 18:18	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 18:18	MSZ	
Chlorobenzene [108-90-7] ^	**5.6**		ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 18:18	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/29/14 18:18	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/29/14 18:18	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 18:18	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**1.4**	J	ug/L	1	0.15	1.0	5	EPA 8260B	09/29/14 18:18	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/29/14 18:18	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 18:18	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/29/14 18:18	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 18:18	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/29/14 18:18	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 18:18	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/29/14 18:18	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 18:18	MSZ	
Toluene [108-88-3] ^	**2.0**		ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 18:18	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 18:18	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 18:18	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/29/14 18:18	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 18:18	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/29/14 18:18	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/29/14 18:18	MSZ	
Vinyl chloride [75-01-4] ^	**0.54**	J	ug/L	1	0.32	1.0	1	EPA 8260B	09/29/14 18:18	MSZ	

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

Lab Sample ID: C410921-07
Sampled: 09/18/14 13:20
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410921

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	09/29/14 18:18	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*58*	*1*	*50.0*	*116 %*	*53-136*	*4I29027*	*EPA 8260B*	*09/29/14 18:18*	*MSZ*	
Dibromofluoromethane	*55*	*1*	*50.0*	*109 %*	*67-129*	*4I29027*	*EPA 8260B*	*09/29/14 18:18*	*MSZ*	
Toluene-d8	*59*	*1*	*50.0*	*118 %*	*59-134*	*4I29027*	*EPA 8260B*	*09/29/14 18:18*	*MSZ*	

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

Lab Sample ID: C410921-07
Sampled: 09/18/14 13:20
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410921

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	09/26/14 14:46	T1D	

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

Lab Sample ID: C410921-07
Sampled: 09/18/14 13:20
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410921

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	09/24/14 11:46	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/24/14 11:37	VLO	
Barium [7440-39-3] ^	**16.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/24/14 11:37	VLO	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/24/14 11:37	VLO	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/24/14 11:37	VLO	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	09/24/14 11:37	VLO	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	09/24/14 11:37	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/24/14 11:37	VLO	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/24/14 11:37	VLO	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/24/14 11:37	VLO	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/24/14 11:37	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/24/14 11:37	VLO	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/24/14 11:46	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/24/14 11:37	VLO	
Zinc [7440-66-6] ^	**22.7**		ug/L	1	3.80	10.0	10	EPA 6010C	09/24/14 11:37	VLO	

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

Lab Sample ID: C410921-08
Sampled: 09/18/14 13:05
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410921

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	09/29/14 18:47	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/29/14 18:47	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/29/14 18:47	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 18:47	MSZ	
1,1-Dichloroethane [75-34-3] ^	**0.96**	J	ug/L	1	0.13	1.0	5	EPA 8260B	09/29/14 18:47	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 18:47	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 18:47	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/29/14 18:47	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/29/14 18:47	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/29/14 18:47	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/29/14 18:47	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/29/14 18:47	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	**0.86**	J	ug/L	1	0.19	1.0	1	EPA 8260B	09/29/14 18:47	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/29/14 18:47	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/29/14 18:47	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/29/14 18:47	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/29/14 18:47	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/29/14 18:47	MSZ	
Benzene [71-43-2] ^	**0.58**	J	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 18:47	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/29/14 18:47	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 18:47	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/29/14 18:47	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/29/14 18:47	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/29/14 18:47	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 18:47	MSZ	
Chlorobenzene [108-90-7] ^	**0.88**	J	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 18:47	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/29/14 18:47	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/29/14 18:47	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 18:47	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**0.88**	J	ug/L	1	0.15	1.0	5	EPA 8260B	09/29/14 18:47	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/29/14 18:47	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 18:47	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/29/14 18:47	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 18:47	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/29/14 18:47	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 18:47	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/29/14 18:47	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 18:47	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 18:47	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 18:47	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 18:47	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/29/14 18:47	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 18:47	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/29/14 18:47	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/29/14 18:47	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	09/29/14 18:47	MSZ	

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Description:	4501-AMW2S	**Lab Sample ID:**	C410921-08	**Received:**	09/19/14 10:30
Matrix:	Ground Water	**Sampled:**	09/18/14 13:05	**Work Order:**	C410921
Project:	Henderson Co. LF	**Sampled By:**	A. Stoddard		

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	09/29/14 18:47	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*58*	*1*	*50.0*	*115 %*	*53-136*	*4I29027*	*EPA 8260B*	*09/29/14 18:47*	*MSZ*	
Dibromofluoromethane	*55*	*1*	*50.0*	*109 %*	*67-129*	*4I29027*	*EPA 8260B*	*09/29/14 18:47*	*MSZ*	
Toluene-d8	*57*	*1*	*50.0*	*115 %*	*59-134*	*4I29027*	*EPA 8260B*	*09/29/14 18:47*	*MSZ*	

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Description:	4501-AMW2S	**Lab Sample ID:**	C410921-08	**Received:**	09/19/14 10:30
Matrix:	Ground Water	**Sampled:**	09/18/14 13:05	**Work Order:**	C410921
Project:	Henderson Co. LF	**Sampled By:**	A. Stoddard		

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] ^	**1.53**		ug/L	1	0.170	0.200	0.2	EPA 7470A	09/26/14 15:01	T1D	

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

Lab Sample ID: C410921-08
Sampled: 09/18/14 13:05
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410921

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	09/24/14 11:50	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/24/14 11:39	VLO	
Barium [7440-39-3] ^	**5.60**	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/24/14 11:39	VLO	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/24/14 11:39	VLO	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/24/14 11:39	VLO	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	09/24/14 11:39	VLO	
Cobalt [7440-48-4] ^	**1.23**	J	ug/L	1	1.10	10.0	10	EPA 6010C	09/24/14 11:39	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/24/14 11:39	VLO	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/24/14 11:39	VLO	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/24/14 11:39	VLO	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/24/14 11:39	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/24/14 11:39	VLO	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/24/14 11:50	VLO	
Vanadium [7440-62-2] ^	**4.57**	J	ug/L	1	1.40	10.0	25	EPA 6010C	09/24/14 11:39	VLO	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	09/24/14 11:39	VLO	

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: C410921-09
Sampled: 09/18/14 13:15
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410921

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	09/29/14 19:17	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/29/14 19:17	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/29/14 19:17	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 19:17	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/29/14 19:17	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 19:17	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 19:17	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/29/14 19:17	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/29/14 19:17	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/29/14 19:17	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/29/14 19:17	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/29/14 19:17	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	09/29/14 19:17	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/29/14 19:17	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/29/14 19:17	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/29/14 19:17	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/29/14 19:17	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/29/14 19:17	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 19:17	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/29/14 19:17	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 19:17	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/29/14 19:17	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/29/14 19:17	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/29/14 19:17	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 19:17	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 19:17	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/29/14 19:17	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/29/14 19:17	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 19:17	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	09/29/14 19:17	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/29/14 19:17	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 19:17	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/29/14 19:17	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 19:17	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/29/14 19:17	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 19:17	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/29/14 19:17	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 19:17	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 19:17	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 19:17	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 19:17	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/29/14 19:17	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 19:17	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/29/14 19:17	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/29/14 19:17	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	09/29/14 19:17	MSZ	

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

Lab Sample ID: C410921-09
Sampled: 09/18/14 13:15
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410921

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	09/29/14 19:17	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*56*	*1*	*50.0*	*112 %*	*53-136*	*4I29027*	*EPA 8260B*	*09/29/14 19:17*	*MSZ*	
Dibromofluoromethane	*56*	*1*	*50.0*	*112 %*	*67-129*	*4I29027*	*EPA 8260B*	*09/29/14 19:17*	*MSZ*	
Toluene-d8	*60*	*1*	*50.0*	*120 %*	*59-134*	*4I29027*	*EPA 8260B*	*09/29/14 19:17*	*MSZ*	

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

Lab Sample ID: C410921-09
Sampled: 09/18/14 13:15
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410921

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	09/26/14 14:54	T1D	

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

Lab Sample ID: C410921-09
Sampled: 09/18/14 13:15
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410921

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	09/24/14 11:53	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/24/14 11:42	VLO	
Barium [7440-39-3] ^	**2.15**	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/24/14 11:42	VLO	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/24/14 11:42	VLO	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/24/14 11:42	VLO	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	09/24/14 11:42	VLO	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	09/24/14 11:42	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/24/14 11:42	VLO	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/24/14 11:42	VLO	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/24/14 11:42	VLO	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/24/14 11:42	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/24/14 11:42	VLO	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/24/14 11:53	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/24/14 11:42	VLO	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	09/24/14 11:42	VLO	

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:** C410921-10 | **Received:** 09/19/14 10:30
Matrix: Surface Water | **Sampled:** 09/18/14 10:16 | **Work Order:** C410921
Project: Henderson Co. LF | **Sampled By:** A. Stoddard

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	09/29/14 19:46	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/29/14 19:46	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/29/14 19:46	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 19:46	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/29/14 19:46	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 19:46	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 19:46	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/29/14 19:46	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/29/14 19:46	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/29/14 19:46	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/29/14 19:46	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/29/14 19:46	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	09/29/14 19:46	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/29/14 19:46	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/29/14 19:46	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/29/14 19:46	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/29/14 19:46	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/29/14 19:46	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 19:46	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/29/14 19:46	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 19:46	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/29/14 19:46	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/29/14 19:46	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/29/14 19:46	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 19:46	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 19:46	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/29/14 19:46	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/29/14 19:46	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 19:46	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	09/29/14 19:46	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/29/14 19:46	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 19:46	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/29/14 19:46	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 19:46	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/29/14 19:46	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 19:46	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/29/14 19:46	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 19:46	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 19:46	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 19:46	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 19:46	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/29/14 19:46	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 19:46	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/29/14 19:46	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/29/14 19:46	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	09/29/14 19:46	MSZ	

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

Lab Sample ID: C410921-10
Sampled: 09/18/14 10:16
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410921

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	09/29/14 19:46	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*58*	*1*	*50.0*	*116 %*	*53-136*	*4I29027*	*EPA 8260B*	*09/29/14 19:46*	*MSZ*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*67-129*	*4I29027*	*EPA 8260B*	*09/29/14 19:46*	*MSZ*	
Toluene-d8	*58*	*1*	*50.0*	*117 %*	*59-134*	*4I29027*	*EPA 8260B*	*09/29/14 19:46*	*MSZ*	

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Description: 4501-BR1 | **Lab Sample ID:** C410921-10 | **Received:** 09/19/14 10:30

Matrix: Surface Water | **Sampled:** 09/18/14 10:16 | **Work Order:** C410921

Project: Henderson Co. LF | **Sampled By:** A. Stoddard

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	09/24/14 11:57	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/24/14 11:44	VLO	
Barium [7440-39-3] ^	**25.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/24/14 11:44	VLO	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/24/14 11:44	VLO	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/24/14 11:44	VLO	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	09/24/14 11:44	VLO	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	09/24/14 11:44	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/24/14 11:44	VLO	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/24/14 11:44	VLO	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/24/14 11:44	VLO	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/24/14 11:44	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/24/14 11:44	VLO	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/24/14 11:57	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/24/14 11:44	VLO	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	09/24/14 11:44	VLO	

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:** C410921-11 | **Received:** 09/19/14 10:30

Matrix: Surface Water | **Sampled:** 09/18/14 08:05 | **Work Order:** C410921

Project: Henderson Co. LF | **Sampled By:** A. Stoddard

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	09/29/14 20:15	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/29/14 20:15	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/29/14 20:15	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 20:15	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/29/14 20:15	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 20:15	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 20:15	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/29/14 20:15	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/29/14 20:15	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/29/14 20:15	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/29/14 20:15	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/29/14 20:15	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	**0.55**	J	ug/L	1	0.19	1.0	1	EPA 8260B	09/29/14 20:15	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/29/14 20:15	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/29/14 20:15	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/29/14 20:15	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/29/14 20:15	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/29/14 20:15	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 20:15	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/29/14 20:15	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 20:15	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/29/14 20:15	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/29/14 20:15	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/29/14 20:15	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 20:15	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 20:15	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/29/14 20:15	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/29/14 20:15	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 20:15	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	09/29/14 20:15	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/29/14 20:15	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 20:15	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/29/14 20:15	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 20:15	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/29/14 20:15	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 20:15	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/29/14 20:15	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 20:15	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 20:15	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 20:15	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 20:15	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/29/14 20:15	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 20:15	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/29/14 20:15	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/29/14 20:15	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	09/29/14 20:15	MSZ	

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

Lab Sample ID: C410921-11
Sampled: 09/18/14 08:05
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410921

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	09/29/14 20:15	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*58*	*1*	*50.0*	*117 %*	*53-136*	*4I29027*	*EPA 8260B*	*09/29/14 20:15*	*MSZ*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*67-129*	*4I29027*	*EPA 8260B*	*09/29/14 20:15*	*MSZ*	
Toluene-d8	*63*	*1*	*50.0*	*127 %*	*59-134*	*4I29027*	*EPA 8260B*	*09/29/14 20:15*	*MSZ*	

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Description: 4501-BR2 | **Lab Sample ID:** C410921-11 | **Received:** 09/19/14 10:30

Matrix: Surface Water | **Sampled:** 09/18/14 08:05 | **Work Order:** C410921

Project: Henderson Co. LF | **Sampled By:** A. Stoddard

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	09/24/14 12:01	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/24/14 11:47	VLO	
Barium [7440-39-3] ^	**128**		ug/L	1	1.00	10.0	100	EPA 6010C	09/24/14 11:47	VLO	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/24/14 11:47	VLO	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/24/14 11:47	VLO	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	09/24/14 11:47	VLO	
Cobalt [7440-48-4] ^	**1.96**	J	ug/L	1	1.10	10.0	10	EPA 6010C	09/24/14 11:47	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/24/14 11:47	VLO	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/24/14 11:47	VLO	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/24/14 11:47	VLO	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/24/14 11:47	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/24/14 11:47	VLO	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/24/14 12:01	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/24/14 11:47	VLO	
Zinc [7440-66-6] ^	**5.11**	J	ug/L	1	3.80	10.0	10	EPA 6010C	09/24/14 11:47	VLO	

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:** C410921-12 | **Received:** 09/19/14 10:30

Matrix: Surface Water | **Sampled:** 09/18/14 12:55 | **Work Order:** C410921

Project: Henderson Co. LF | **Sampled By:** A. Stoddard

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	09/29/14 20:45	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/29/14 20:45	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/29/14 20:45	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 20:45	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/29/14 20:45	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 20:45	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 20:45	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/29/14 20:45	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/29/14 20:45	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/29/14 20:45	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/29/14 20:45	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/29/14 20:45	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	09/29/14 20:45	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/29/14 20:45	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/29/14 20:45	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/29/14 20:45	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/29/14 20:45	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/29/14 20:45	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 20:45	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/29/14 20:45	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 20:45	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/29/14 20:45	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/29/14 20:45	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/29/14 20:45	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 20:45	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 20:45	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/29/14 20:45	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/29/14 20:45	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 20:45	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	09/29/14 20:45	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/29/14 20:45	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 20:45	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/29/14 20:45	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 20:45	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/29/14 20:45	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 20:45	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/29/14 20:45	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 20:45	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 20:45	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 20:45	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 20:45	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/29/14 20:45	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 20:45	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/29/14 20:45	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/29/14 20:45	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	09/29/14 20:45	MSZ	

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Description:	4501-BR3	**Lab Sample ID:**	C410921-12	**Received:**	09/19/14 10:30
Matrix:	Surface Water	**Sampled:**	09/18/14 12:55	**Work Order:**	C410921
Project:	Henderson Co. LF	**Sampled By:**	A. Stoddard		

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	09/29/14 20:45	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*58*	*1*	*50.0*	*116 %*	*53-136*	*4I29027*	*EPA 8260B*	*09/29/14 20:45*	*MSZ*	
Dibromofluoromethane	*56*	*1*	*50.0*	*112 %*	*67-129*	*4I29027*	*EPA 8260B*	*09/29/14 20:45*	*MSZ*	
Toluene-d8	*59*	*1*	*50.0*	*119 %*	*59-134*	*4I29027*	*EPA 8260B*	*09/29/14 20:45*	*MSZ*	

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Description: 4501-BR3 | **Lab Sample ID:** C410921-12 | **Received:** 09/19/14 10:30

Matrix: Surface Water | **Sampled:** 09/18/14 12:55 | **Work Order:** C410921

Project: Henderson Co. LF | **Sampled By:** A. Stoddard

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	09/24/14 12:04	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/24/14 11:49	VLO	
Barium [7440-39-3] ^	**185**		ug/L	1	1.00	10.0	100	EPA 6010C	09/24/14 11:49	VLO	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/24/14 11:49	VLO	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/24/14 11:49	VLO	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	09/24/14 11:49	VLO	
Cobalt [7440-48-4] ^	**1.58**	J	ug/L	1	1.10	10.0	10	EPA 6010C	09/24/14 11:49	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/24/14 11:49	VLO	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/24/14 11:49	VLO	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/24/14 11:49	VLO	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/24/14 11:49	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/24/14 11:49	VLO	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/24/14 12:04	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/24/14 11:49	VLO	
Zinc [7440-66-6] ^	**9.98**	J	ug/L	1	3.80	10.0	10	EPA 6010C	09/24/14 11:49	VLO	

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:** C410921-13 | **Received:** 09/19/14 10:30

Matrix: Surface Water | **Sampled:** 09/18/14 07:57 | **Work Order:** C410921

Project: Henderson Co. LF | **Sampled By:** A. Stoddard

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	09/29/14 21:14	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/29/14 21:14	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/29/14 21:14	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 21:14	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/29/14 21:14	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 21:14	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 21:14	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/29/14 21:14	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/29/14 21:14	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/29/14 21:14	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/29/14 21:14	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/29/14 21:14	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	09/29/14 21:14	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/29/14 21:14	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/29/14 21:14	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/29/14 21:14	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/29/14 21:14	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/29/14 21:14	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 21:14	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/29/14 21:14	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 21:14	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/29/14 21:14	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/29/14 21:14	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/29/14 21:14	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 21:14	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 21:14	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/29/14 21:14	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/29/14 21:14	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 21:14	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	09/29/14 21:14	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/29/14 21:14	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 21:14	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/29/14 21:14	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 21:14	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/29/14 21:14	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 21:14	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/29/14 21:14	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 21:14	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 21:14	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 21:14	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 21:14	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/29/14 21:14	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 21:14	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/29/14 21:14	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/29/14 21:14	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	09/29/14 21:14	MSZ	

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

Lab Sample ID: C410921-13
Sampled: 09/18/14 07:57
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410921

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	09/29/14 21:14	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*59*	*1*	*50.0*	*118 %*	*53-136*	*4I29027*	*EPA 8260B*	*09/29/14 21:14*	*MSZ*	
Dibromofluoromethane	*56*	*1*	*50.0*	*112 %*	*67-129*	*4I29027*	*EPA 8260B*	*09/29/14 21:14*	*MSZ*	
Toluene-d8	*62*	*1*	*50.0*	*123 %*	*59-134*	*4I29027*	*EPA 8260B*	*09/29/14 21:14*	*MSZ*	

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Description: 4501-SW1 | **Lab Sample ID:** C410921-13 | **Received:** 09/19/14 10:30

Matrix: Surface Water | **Sampled:** 09/18/14 07:57 | **Work Order:** C410921

Project: Henderson Co. LF | **Sampled By:** A. Stoddard

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	09/24/14 12:08	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/24/14 11:52	VLO	
Barium [7440-39-3] ^	**30.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/24/14 11:52	VLO	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/24/14 11:52	VLO	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/24/14 11:52	VLO	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	09/24/14 11:52	VLO	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	09/24/14 11:52	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/24/14 11:52	VLO	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/24/14 11:52	VLO	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/24/14 11:52	VLO	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/24/14 11:52	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/24/14 11:52	VLO	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/24/14 12:08	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/24/14 11:52	VLO	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	09/24/14 11:52	VLO	

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: Surface Water
Project: Henderson Co. LF

Lab Sample ID: C410921-14
Sampled: 09/18/14 15:15
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410921

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	09/29/14 21:43	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/29/14 21:43	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/29/14 21:43	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 21:43	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/29/14 21:43	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 21:43	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 21:43	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/29/14 21:43	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/29/14 21:43	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/29/14 21:43	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/29/14 21:43	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/29/14 21:43	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	09/29/14 21:43	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/29/14 21:43	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/29/14 21:43	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/29/14 21:43	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/29/14 21:43	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/29/14 21:43	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 21:43	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/29/14 21:43	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 21:43	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/29/14 21:43	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/29/14 21:43	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/29/14 21:43	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 21:43	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 21:43	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/29/14 21:43	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/29/14 21:43	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 21:43	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	09/29/14 21:43	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/29/14 21:43	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 21:43	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/29/14 21:43	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 21:43	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/29/14 21:43	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 21:43	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/29/14 21:43	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 21:43	MSZ	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	09/29/14 21:43	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 21:43	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 21:43	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 21:43	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/29/14 21:43	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 21:43	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/29/14 21:43	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/29/14 21:43	MSZ	

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Description:	4501-Field Blank	**Lab Sample ID:**	C410921-14	**Received:**	09/19/14 10:30
Matrix:	Surface Water	**Sampled:**	09/18/14 15:15	**Work Order:**	C410921
Project:	Henderson Co. LF	**Sampled By:**	A. Stoddard		

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	09/29/14 21:43	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	09/29/14 21:43	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*58*	*1*	*50.0*	*117 %*	*53-136*	*4I29027*	*EPA 8260B*	*09/29/14 21:43*	*MSZ*	
Dibromofluoromethane	*56*	*1*	*50.0*	*113 %*	*67-129*	*4I29027*	*EPA 8260B*	*09/29/14 21:43*	*MSZ*	
Toluene-d8	*57*	*1*	*50.0*	*114 %*	*59-134*	*4I29027*	*EPA 8260B*	*09/29/14 21:43*	*MSZ*	

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

Lab Sample ID: C410921-14
Sampled: 09/18/14 15:15
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410921

Semivolatile 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
Bis(2-Ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	09/24/14 23:44	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2-Fluorobiphenyl	*37*	*1*	*50.0*	*75 %*	*10-149*	*4I22019*	*EPA 8270D*	*09/24/14 23:44*	*DFM*	
Nitrobenzene-d5	*33*	*1*	*50.0*	*67 %*	*10-149*	*4I22019*	*EPA 8270D*	*09/24/14 23:44*	*DFM*	
Terphenyl-d14	*45*	*1*	*50.0*	*90 %*	*10-188*	*4I22019*	*EPA 8270D*	*09/24/14 23:44*	*DFM*	

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Description:	4501-Field Blank	**Lab Sample ID:**	C410921-14	**Received:**	09/19/14 10:30
Matrix:	Surface Water	**Sampled:**	09/18/14 15:15	**Work Order:**	C410921
Project:	Henderson Co. LF	**Sampled By:**	A. Stoddard		

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	09/26/14 14:56	T1D	

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

Lab Sample ID: C410921-14
Sampled: 09/18/14 15:15
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410921

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	09/24/14 12:12	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/24/14 11:55	VLO	
Barium [7440-39-3] ^	**1.96**	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/24/14 11:55	VLO	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/24/14 11:55	VLO	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/24/14 11:55	VLO	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	09/24/14 11:55	VLO	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	09/24/14 11:55	VLO	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/24/14 11:55	VLO	
Iron [7439-89-6] ^	22.0	U	ug/L	1	22.0	50.0	300	EPA 6010C	09/24/14 11:55	VLO	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/24/14 11:55	VLO	
Manganese [7439-96-5] ^	1.10	U	ug/L	1	1.10	10.0	50	EPA 6010C	09/24/14 11:55	VLO	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/24/14 11:55	VLO	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/24/14 11:55	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/24/14 11:55	VLO	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/24/14 12:12	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/24/14 11:55	VLO	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	09/24/14 11:55	VLO	

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Description:	4501-Field Blank	**Lab Sample ID:**	C410921-14	**Received:**	09/19/14 10:30
Matrix:	Surface Water	**Sampled:**	09/18/14 15:15	**Work Order:**	C410921
Project:	Henderson Co. LF	**Sampled By:**	A. Stoddard		

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] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	09/27/14 00:15	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/03/14 14:02	RC	Q

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*0.57*	*1*	*2.00*	*28 %*	*68-139*	*4I23011*	*EPA 8151A*	*09/27/14 00:15*	*RC*	*QS-03*
2,4-DCAA	*1.9*	*1*	*2.00*	*95 %*	*68-139*	*4J01027*	*EPA 8151A*	*10/03/14 14:02*	*RC*	*Q*

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

Lab Sample ID: C410921-15
Sampled: 09/18/14 07:57
Sampled By: ENCO

Received: 09/19/14 10:30
Work Order: C410921

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	09/30/14 14:25	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/30/14 14:25	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/30/14 14:25	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/30/14 14:25	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/30/14 14:25	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/30/14 14:25	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/30/14 14:25	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/30/14 14:25	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/30/14 14:25	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/30/14 14:25	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/30/14 14:25	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/30/14 14:25	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	09/30/14 14:25	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/30/14 14:25	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/30/14 14:25	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/30/14 14:25	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/30/14 14:25	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/30/14 14:25	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/30/14 14:25	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/30/14 14:25	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/30/14 14:25	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/30/14 14:25	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/30/14 14:25	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/30/14 14:25	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/30/14 14:25	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/30/14 14:25	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/30/14 14:25	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/30/14 14:25	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/30/14 14:25	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	09/30/14 14:25	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/30/14 14:25	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/30/14 14:25	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/30/14 14:25	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/30/14 14:25	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/30/14 14:25	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/30/14 14:25	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/30/14 14:25	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/30/14 14:25	MSZ	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	09/30/14 14:25	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/30/14 14:25	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/30/14 14:25	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/30/14 14:25	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/30/14 14:25	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/30/14 14:25	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/30/14 14:25	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/30/14 14:25	MSZ	

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

Lab Sample ID: C410921-15
Sampled: 09/18/14 07:57
Sampled By: ENCO

Received: 09/19/14 10:30
Work Order: C410921

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	09/30/14 14:25	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	09/30/14 14:25	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*81 %*	*53-136*	*4I29028*	*EPA 8260B*	*09/30/14 14:25*	*MSZ*	
Dibromofluoromethane	*42*	*1*	*50.0*	*83 %*	*67-129*	*4I29028*	*EPA 8260B*	*09/30/14 14:25*	*MSZ*	
Toluene-d8	*40*	*1*	*50.0*	*81 %*	*59-134*	*4I29028*	*EPA 8260B*	*09/30/14 14:25*	*MSZ*	

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4I29021 - EPA 5030B_MS

Blank (4I29021-BLK1) Prepared: 09/29/2014 10:28 Analyzed: 09/29/2014 11:13

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	*42*			*ug/L*	*50.0*		*83*	*53-136*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4I29021 - EPA 5030B_MS

Blank (4I29021-BLK1) Continued Prepared: 09/29/2014 10:28 Analyzed: 09/29/2014 11:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*41*			*ug/L*	*50.0*		*83*	*67-129*			
Surrogate: Toluene-d8	*40*			*ug/L*	*50.0*		*80*	*59-134*			

LCS (4I29021-BS1) Prepared: 09/29/2014 10:28 Analyzed: 09/29/2014 11:43

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	21		1.0	ug/L	20.0		103	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		97	83-117			
Toluene	21		1.0	ug/L	20.0		103	71-118			
Trichloroethene	20		1.0	ug/L	20.0		100	74-119			

Matrix Spike (4I29021-MS1) Prepared: 09/29/2014 10:28 Analyzed: 09/29/2014 12:13

Source: C412608-10

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	21		1.0	ug/L	20.0	0.15 U	103	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	95	83-117			
Toluene	20		1.0	ug/L	20.0	0.14 U	101	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	98	74-119			

Matrix Spike Dup (4I29021-MSD1) Prepared: 09/29/2014 10:28 Analyzed: 09/29/2014 12:44

Source: C412608-10

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	3	20	
Benzene	20		1.0	ug/L	20.0	0.15 U	100	81-134	2	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	94	83-117	2	16	
Toluene	20		1.0	ug/L	20.0	0.14 U	98	71-118	3	17	
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	94	74-119	4	22	

Batch 4I29027 - EPA 5030B_MS

Blank (4I29027-BLK1) Prepared: 09/29/2014 10:26 Analyzed: 09/29/2014 14:02

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

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4I29027 - EPA 5030B_MS

Blank (4I29027-BLK1) Continued Prepared: 09/29/2014 10:26 Analyzed: 09/29/2014 14:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
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	*57*			*ug/L*	*50.0*		*114*	*53-136*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*106*	*67-129*			
Surrogate: Toluene-d8	*58*			*ug/L*	*50.0*		*115*	*59-134*			

LCS (4I29027-BS1) Prepared: 09/29/2014 14:29 Analyzed: 09/29/2014 22:44

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		96	75-133			
Benzene	19		1.0	ug/L	20.0		97	81-134			
Chlorobenzene	17		1.0	ug/L	20.0		87	83-117			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4I29027 - EPA 5030B_MS

LCS (4I29027-BS1) Continued Prepared: 09/29/2014 14:29 Analyzed: 09/29/2014 22:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Toluene	18		1.0	ug/L	20.0		88	71-118			
Trichloroethene	20		1.0	ug/L	20.0		100	74-119			

Matrix Spike (4I29027-MS1) Prepared: 09/29/2014 14:29 Analyzed: 09/29/2014 15:50

Source: C412610-06

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	19		1.0	ug/L	20.0	0.15 U	97	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	99	83-117			
Toluene	18		1.0	ug/L	20.0	0.14 U	92	71-118			
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	91	74-119			

Matrix Spike Dup (4I29027-MSD1) Prepared: 09/29/2014 14:29 Analyzed: 09/29/2014 16:20

Source: C412610-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.21 U	101	75-133	10	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	97	81-134	0.3	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	96	83-117	3	16	
Toluene	18		1.0	ug/L	20.0	0.14 U	90	71-118	1	17	
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	96	74-119	5	22	

Batch 4I29028 - EPA 5030B_MS

Blank (4I29028-BLK1) Prepared: 09/29/2014 14:32 Analyzed: 09/30/2014 11:24

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							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4I29028 - EPA 5030B_MS

Blank (4I29028-BLK1) Continued Prepared: 09/29/2014 14:32 Analyzed: 09/30/2014 11:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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	*41*			*ug/L*	*50.0*		*82*	*53-136*			
Surrogate: Dibromofluoromethane	*41*			*ug/L*	*50.0*		*83*	*67-129*			
Surrogate: Toluene-d8	*40*			*ug/L*	*50.0*		*80*	*59-134*			

LCS (4I29028-BS1) Prepared: 09/29/2014 14:32 Analyzed: 09/30/2014 11:54

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		111	75-133			
Benzene	20		1.0	ug/L	20.0		102	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		96	83-117			
Toluene	20		1.0	ug/L	20.0		102	71-118			
Trichloroethene	19		1.0	ug/L	20.0		96	74-119			

Matrix Spike (4I29028-MS1) Prepared: 09/29/2014 14:32 Analyzed: 09/30/2014 12:24

Source: C410922-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	26		1.0	ug/L	20.0	0.21 U	130	75-133			
Benzene	24		1.0	ug/L	20.0	0.15 U	120	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	105	83-117			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4I29028 - EPA 5030B_MS

Matrix Spike (4I29028-MS1) Continued Prepared: 09/29/2014 14:32 Analyzed: 09/30/2014 12:24

Source: C410922-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Toluene	24		1.0	ug/L	20.0	1.4	113	71-118			
Trichloroethene	22		1.0	ug/L	20.0	0.15 U	111	74-119			

Matrix Spike Dup (4I29028-MSD1) Prepared: 09/29/2014 14:32 Analyzed: 09/30/2014 12:54

Source: C410922-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0	0.21 U	122	75-133	6	20	
Benzene	22		1.0	ug/L	20.0	0.15 U	110	81-134	9	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	101	83-117	4	16	
Toluene	23		1.0	ug/L	20.0	1.4	107	71-118	5	17	
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	106	74-119	5	22	

Batch 4I30019 - EPA 5030B_MS

Blank (4I30019-BLK1) Prepared: 09/30/2014 15:23 Analyzed: 10/01/2014 03:23

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							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4I30019 - EPA 5030B_MS

Blank (4I30019-BLK1) Continued Prepared: 09/30/2014 15:23 Analyzed: 10/01/2014 03:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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	*59*			*ug/L*	*50.0*		*118*	*53-136*			
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*105*	*67-129*			
Surrogate: Toluene-d8	*61*			*ug/L*	*50.0*		*122*	*59-134*			

LCS (4I30019-BS1) Prepared: 09/30/2014 15:23 Analyzed: 10/01/2014 03:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		105	75-133			
Benzene	20		1.0	ug/L	20.0		100	81-134			
Chlorobenzene	17		1.0	ug/L	20.0		86	83-117			
Toluene	17		1.0	ug/L	20.0		86	71-118			
Trichloroethene	21		1.0	ug/L	20.0		103	74-119			

Matrix Spike (4I30019-MS1) Prepared: 09/30/2014 15:23 Analyzed: 10/01/2014 04:22

Source: C410921-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.21 U	113	75-133			
Benzene	22		1.0	ug/L	20.0	1.1	106	81-134			
Chlorobenzene	29		1.0	ug/L	20.0	10	97	83-117			
Toluene	19		1.0	ug/L	20.0	0.14 U	97	71-118			
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	92	74-119			

Matrix Spike Dup (4I30019-MSD1) Prepared: 09/30/2014 15:23 Analyzed: 10/01/2014 04:51

Source: C410921-03

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	110	75-133	2	20	
Benzene	21		1.0	ug/L	20.0	1.1	101	81-134	4	17	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4I30019 - EPA 5030B_MS

Matrix Spike Dup (4I30019-MSD1) Continued Prepared: 09/30/2014 15:23 Analyzed: 10/01/2014 04:51

Source: C410921-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	31		1.0	ug/L	20.0	10	102	83-117	4	16	
Toluene	20		1.0	ug/L	20.0	0.14 U	99	71-118	2	17	
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	104	74-119	12	22	

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4I22019 - EPA 3510C_MS

Blank (4I22019-BLK1) Prepared: 09/22/2014 12:56 Analyzed: 09/24/2014 19:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bis(2-Ethylhexyl)phthalate	1.7	U	5.0	ug/L							
Surrogate: 2-Fluorobiphenyl	*42*			*ug/L*	*50.0*		*84*	*10-149*			
Surrogate: Nitrobenzene-d5	*39*			*ug/L*	*50.0*		*79*	*10-149*			
Surrogate: Terphenyl-d14	*52*			*ug/L*	*50.0*		*105*	*10-188*			

LCS (4I22019-BS1) Prepared: 09/22/2014 12:56 Analyzed: 09/24/2014 20:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	39		10	ug/L	50.0		78	27-90			
1,4-Dichlorobenzene	38		10	ug/L	50.0		76	23-84			
2,4-Dinitrotoluene	42		10	ug/L	50.0		85	67-132			
Acenaphthene	42		10	ug/L	50.0		84	39-125			
N-Nitroso-di-n-propylamine	42		10	ug/L	50.0		84	48-126			
Pyrene	48		10	ug/L	50.0		96	44-137			
Surrogate: 2-Fluorobiphenyl	*42*			*ug/L*	*50.0*		*85*	*10-149*			
Surrogate: Nitrobenzene-d5	*41*			*ug/L*	*50.0*		*81*	*10-149*			
Surrogate: Terphenyl-d14	*52*			*ug/L*	*50.0*		*103*	*10-188*			

Matrix Spike (4I22019-MS1) Prepared: 09/22/2014 12:56 Analyzed: 09/24/2014 20:39

Source: C410921-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	38		10	ug/L	50.0	1.2 U	76	27-90			
1,4-Dichlorobenzene	45		10	ug/L	50.0	9.0	73	23-84			
2,4-Dinitrotoluene	40		10	ug/L	50.0	2.4 U	81	67-132			
Acenaphthene	39		10	ug/L	50.0	1.4 U	78	39-125			
N-Nitroso-di-n-propylamine	41		10	ug/L	50.0	1.5 U	82	48-126			
Pyrene	46		10	ug/L	50.0	2.1 U	92	44-137			
Surrogate: 2-Fluorobiphenyl	*41*			*ug/L*	*50.0*		*82*	*10-149*			
Surrogate: Nitrobenzene-d5	*37*			*ug/L*	*50.0*		*75*	*10-149*			
Surrogate: Terphenyl-d14	*42*			*ug/L*	*50.0*		*84*	*10-188*			

Matrix Spike Dup (4I22019-MSD1) Prepared: 09/22/2014 12:56 Analyzed: 09/24/2014 21:10

Source: C410921-03

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4I22019 - EPA 3510C_MS

Matrix Spike Dup (4I22019-MSD1) Continued Prepared: 09/22/2014 12:56 Analyzed: 09/24/2014 21:10

Source: C410921-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	42		10	ug/L	50.0	1.2 U	84	27-90	10	43	
1,4-Dichlorobenzene	50		10	ug/L	50.0	9.0	82	23-84	10	39	
2,4-Dinitrotoluene	45		10	ug/L	50.0	2.4 U	90	67-132	11	17	
Acenaphthene	43		10	ug/L	50.0	1.4 U	87	39-125	10	25	
N-Nitroso-di-n-propylamine	45		10	ug/L	50.0	1.5 U	91	48-126	10	23	
Pyrene	50		10	ug/L	50.0	2.1 U	100	44-137	9	24	
Surrogate: 2-Fluorobiphenyl	*46*			*ug/L*	*50.0*		*92*	*10-149*			
Surrogate: Nitrobenzene-d5	*43*			*ug/L*	*50.0*		*85*	*10-149*			
Surrogate: Terphenyl-d14	*47*			*ug/L*	*50.0*		*93*	*10-188*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 4I22029 - EPA 7470A

Blank (4I22029-BLK1) Prepared: 09/22/2014 15:35 Analyzed: 09/26/2014 14:07

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 (4I22029-BS1) Prepared: 09/22/2014 15:35 Analyzed: 09/26/2014 14:11

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		93	80-120			

Matrix Spike (4I22029-MS1) Prepared: 09/22/2014 15:35 Analyzed: 09/26/2014 14:16

Source: C410921-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.52		0.200	ug/L	5.00	0.170 U	90	75-125			

Matrix Spike Dup (4I22029-MSD1) Prepared: 09/22/2014 15:35 Analyzed: 09/26/2014 14:18

Source: C410921-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.49		0.200	ug/L	5.00	0.170 U	90	75-125	0.7	25	

Post Spike (4I22029-PS1) Prepared: 09/22/2014 15:35 Analyzed: 09/26/2014 14:20

Source: C410921-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.63		0.200	ug/L	5.00	-0.0420	73	75-125			QM-08

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

Batch 4I22012 - EPA 3005A

QUALITY CONTROL

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

Batch 4I22012 - EPA 3005A

Blank (4I22012-BLK1) Prepared: 09/22/2014 11:14 Analyzed: 09/24/2014 10:57

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

LCS (4I22012-BS1) Prepared: 09/22/2014 11:14 Analyzed: 09/24/2014 11:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	197		2.00	ug/L	200		98	80-120			
Thallium	203		1.00	ug/L	200		102	80-120			

Matrix Spike (4I22012-MS1) Prepared: 09/22/2014 11:14 Analyzed: 09/24/2014 11:08

Source: C410921-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	205		2.00	ug/L	200	0.874	102	75-125			
Thallium	176		1.00	ug/L	200	0.145	88	75-125			

Matrix Spike Dup (4I22012-MSD1) Prepared: 09/22/2014 11:14 Analyzed: 09/24/2014 11:12

Source: C410921-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	207		2.00	ug/L	200	0.874	103	75-125	1	20	
Thallium	179		1.00	ug/L	200	0.145	89	75-125	1	20	

Post Spike (4I22012-PS1) Prepared: 09/22/2014 11:14 Analyzed: 09/24/2014 11:16

Source: C410921-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	191		2.00	ug/L	200	0.874	95	80-120			
Thallium	165		1.00	ug/L	200	0.145	82	80-120			

Batch 4I22014 - EPA 3005A

Blank (4I22014-BLK1) Prepared: 09/22/2014 11:27 Analyzed: 09/24/2014 11:01

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							

QUALITY CONTROL

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

Batch 4I22014 - EPA 3005A

Blank (4I22014-BLK1) Continued Prepared: 09/22/2014 11:27 Analyzed: 09/24/2014 11:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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 (4I22014-BS1) Prepared: 09/22/2014 11:27 Analyzed: 09/24/2014 11:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	193		10.0	ug/L	200		97	80-120			
Barium	199		10.0	ug/L	200		100	80-120			
Beryllium	19.5		1.00	ug/L	20.0		98	80-120			
Cadmium	20.0		1.00	ug/L	20.0		100	80-120			
Chromium	192		10.0	ug/L	200		96	80-120			
Cobalt	197		10.0	ug/L	200		98	80-120			
Copper	189		10.0	ug/L	200		94	80-120			
Iron	983		50.0	ug/L	1000		98	80-120			
Lead	194		10.0	ug/L	200		97	80-120			
Manganese	194		10.0	ug/L	200		97	80-120			
Nickel	200		10.0	ug/L	200		100	80-120			
Selenium	184		10.0	ug/L	200		92	80-120			
Silver	195		10.0	ug/L	200		97	80-120			
Vanadium	188		10.0	ug/L	200		94	80-120			
Zinc	202		10.0	ug/L	200		101	80-120			

Matrix Spike (4I22014-MS1) Prepared: 09/22/2014 11:27 Analyzed: 09/24/2014 11:08

Source: C410921-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	196		10.0	ug/L	200	5.40 U	98	75-125			
Barium	656		10.0	ug/L	200	453	102	75-125			
Beryllium	20.2		1.00	ug/L	20.0	0.295	100	75-125			
Cadmium	21.1		1.00	ug/L	20.0	0.858	101	75-125			
Chromium	197		10.0	ug/L	200	1.95	97	75-125			
Cobalt	201		10.0	ug/L	200	1.10 U	100	75-125			
Copper	195		10.0	ug/L	200	1.60 U	97	75-125			
Iron	1100		50.0	ug/L	1000	94.5	100	75-125			
Lead	196		10.0	ug/L	200	2.10 U	98	75-125			
Manganese	5780		10.0	ug/L	200	5510	136	75-125			QM-05
Nickel	204		10.0	ug/L	200	1.80 U	102	75-125			
Selenium	202		10.0	ug/L	200	5.00 U	101	75-125			
Silver	198		10.0	ug/L	200	1.90 U	99	75-125			
Vanadium	191		10.0	ug/L	200	1.40 U	95	75-125			
Zinc	207		10.0	ug/L	200	3.80 U	104	75-125			

Matrix Spike Dup (4I22014-MSD1) Prepared: 09/22/2014 11:27 Analyzed: 09/24/2014 11:11

Source: C410921-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

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

Batch 4I22014 - EPA 3005A

Matrix Spike Dup (4I22014-MSD1) Continued Prepared: 09/22/2014 11:27 Analyzed: 09/24/2014 11:11

Source: C410921-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	194		10.0	ug/L	200	5.40 U	97	75-125	1	20	
Barium	651		10.0	ug/L	200	453	99	75-125	0.8	20	
Beryllium	19.9		1.00	ug/L	20.0	0.295	98	75-125	2	20	
Cadmium	21.1		1.00	ug/L	20.0	0.858	101	75-125	0.02	20	
Chromium	194		10.0	ug/L	200	1.95	96	75-125	1	20	
Cobalt	199		10.0	ug/L	200	1.10 U	99	75-125	1	20	
Copper	191		10.0	ug/L	200	1.60 U	96	75-125	2	20	
Iron	1100		50.0	ug/L	1000	94.5	100	75-125	0.05	20	
Lead	195		10.0	ug/L	200	2.10 U	97	75-125	0.8	20	
Manganese	5740		10.0	ug/L	200	5510	115	75-125	0.7	20	
Nickel	203		10.0	ug/L	200	1.80 U	101	75-125	0.7	20	
Selenium	202		10.0	ug/L	200	5.00 U	101	75-125	0.4	20	
Silver	195		10.0	ug/L	200	1.90 U	98	75-125	1	20	
Vanadium	188		10.0	ug/L	200	1.40 U	94	75-125	2	20	
Zinc	206		10.0	ug/L	200	3.80 U	103	75-125	0.5	20	

Post Spike (4I22014-PS1) Prepared: 09/22/2014 11:27 Analyzed: 09/24/2014 11:13

Source: C410921-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.184		0.0100	mg/L	0.200	-0.000841	92	80-120			
Barium	0.644		0.0100	mg/L	0.200	0.453	95	80-120			
Beryllium	0.0190		0.00100	mg/L	0.0200	0.000295	93	80-120			
Cadmium	0.0199		0.00100	mg/L	0.0200	0.000858	95	80-120			
Chromium	0.187		0.0100	mg/L	0.200	0.00195	92	80-120			
Cobalt	0.188		0.0100	mg/L	0.200	0.000203	94	80-120			
Copper	0.184		0.0100	mg/L	0.200	-0.00153	92	80-120			
Iron	1.04		0.0500	mg/L	1.00	0.0945	95	80-120			
Lead	0.186		0.0100	mg/L	0.200	0.000298	93	80-120			
Manganese	5.74		0.0100	mg/L	0.200	5.51	115	80-120			
Nickel	0.191		0.0100	mg/L	0.200	0.000376	95	80-120			
Selenium	0.190		0.0100	mg/L	0.200	-0.000290	95	80-120			
Silver	0.182		0.0100	mg/L	0.200	0.00121	91	80-120			
Vanadium	0.180		0.0100	mg/L	0.200	-0.000983	90	80-120			
Zinc	0.195		0.0100	mg/L	0.200	0.00316	96	80-120			

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 4I23011 - EPA 3510C

Blank (4I23011-BLK1) Prepared: 09/23/2014 14:30 Analyzed: 09/26/2014 22:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	0.27	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*1.8*			*ug/L*	*2.00*		*90*	*68-139*			

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 4I23011 - EPA 3510C

LCS (4I23011-BS1) Prepared: 09/23/2014 14:30 Analyzed: 09/26/2014 22:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	1.8		0.50	ug/L	2.00		88	37-129			
Surrogate: 2,4-DCAA	*2.2*			*ug/L*	*2.00*		*108*	*68-139*			

Matrix Spike (4I23011-MS1) Prepared: 09/23/2014 14:30 Analyzed: 09/26/2014 22:57

Source: A405523-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	3.0		0.50	ug/L	2.00	0.27 U	148	37-129			QM-07
Surrogate: 2,4-DCAA	*1.1*			*ug/L*	*2.00*		*56*	*68-139*			*QS-03*

Matrix Spike Dup (4I23011-MSD1) Prepared: 09/23/2014 14:30 Analyzed: 09/26/2014 23:23

Source: A405523-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	1.0		0.50	ug/L	2.00	0.27 U	51	37-129	97	33	QM-11
Surrogate: 2,4-DCAA	*0.91*			*ug/L*	*2.00*		*46*	*68-139*			*QS-03*

Batch 4J01027 - EPA 3510C

Blank (4J01027-BLK1) Prepared: 10/01/2014 16:00 Analyzed: 10/03/2014 11:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	0.27	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*1.9*			*ug/L*	*2.00*		*94*	*68-139*			

LCS (4J01027-BS1) Prepared: 10/01/2014 16:00 Analyzed: 10/03/2014 12:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	1.9		0.50	ug/L	2.00		94	37-129			
Surrogate: 2,4-DCAA	*2.4*			*ug/L*	*2.00*		*122*	*68-139*			

Matrix Spike (4J01027-MS1) Prepared: 10/01/2014 16:00 Analyzed: 10/03/2014 12:43

Source: A405642-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	1.7		0.50	ug/L	2.00	0.27 U	86	37-129			
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*102*	*68-139*			

Matrix Spike Dup (4J01027-MSD1) Prepared: 10/01/2014 16:00 Analyzed: 10/03/2014 13:09

Source: A405642-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	1.6		0.50	ug/L	2.00	0.27 U	81	37-129	6	33	
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*99*	*68-139*			

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 4J01027 - EPA 3510C

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.
Q	Analysis performed outside of method - specified holding time.
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.
QS-03	Surrogate recovery outside acceptance limits

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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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

Client Name: Golder Associates, Inc. (GO007)

Address: 5151 Oak Branch Drive

City/St/Zip: Greensboro, NC 27407

Tel: (336) 852-4903 Fax: (336) 852-4904

Sampler(s) Name, Affiliation (Print): A. Stoddard, Golder

Sampler(s) Signature: Anna Stoddard

Project Number: 08396506014.100

Project Name/Desc: Henderson Co. LF

PO # / Billing Info:

Reporting Contact: Dusty Reedy

Billing Contact: Accounts Payable

Site Location / Time Zone: Henderson Co. / EST

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due __/__/__

Lab Workorder: C410921

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	8270D BN	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,Sn,Tl,V,Zn	Hg	Hg/F			Sample Comments
	4501-MW5 (Background)	9-18-14	0855	G	GW	5		X		X		X	X				
	4501-MW6	9-18-14	1217	G	GW	5		X		X		X	X				
	4501-MW7 (MS/MSD)	9-18-14	1035	G	GW	10		X		X		X	X				
	4501-MW8	9-18-14	1000	G	GW	5		X		X		X	X				
	4501-MW8 Dissolved	9-18-14	1000	G	GW	1								X			
	4501-AMW1S	9-18-14	1325	G	GW	4		X				X	X				
	4501-AMW1D	9-18-14	1320	G	GW	4		X				X	X				
	4501-AMW2S	9-18-14	1305	G	GW	4		X				X	X				
	4501-AMW2D	9-18-14	1315	G	GW	4		X				X	X				
	4501-BR1	9-18-14	1016	G	SW	4		X				X					
	4501-BR2	9-18-14	0905	G	SW	4		X				X					
	4501-BR3	9-18-14	1255	G	SW	4		X				X					

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		Anna Stoddard	9-19-14	[illegible]	9/19/14 10:30
		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 April 9, 2004 + the 2013 Unit Price Sheet
3. Est fee: $ 3415

Cooler #'s & Temps on Receipt: 1.7°

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

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Client Name: Golder Associates, Inc. (GO007)	Project Number: 08396506014.100
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): A. Stoddard, Golder	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Site Location / Time Zone: Henderson Co/EST

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C410921

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	8270D BN	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,Sn,Tl,V,Zn	Hg	Hg/F			Sample Comments
	4501-SW1	9-18-14	0757	G	SW	4		X				X					
	4501-Field Blank	9-18-14	1515	G	SW	6	X		X	X	X		X				
	4501-Trip Blank				WA	2			X								

<-- Total # of Containers

Sample Kit Prepared By: RAY	Date/Time: 8/27	Relinquished By: [signature]	Date/Time: 9-19-14	Received By: [signature]	Date/Time: 9/19/14 10:30
Comments/Special Reporting Requirements: "see page 1"		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-404 C-80 1.7°		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

WORK ORDER

Printed: 10/3/2014 4:53:17PM

C410921

ENCO Cary

Sample Receipt Conditions

Client:	**Golder Associates, Inc. (GO007)**	**Lab Project Mgr:**	**Stephanie Franz**
Project:	**Henderson Co. LF**	**Project Number:**	**08396506014.100**
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:	Andrew S Coons	Date Received:	19-Sep-14 10:30
Logged In By:	Andrew S Coons	Date Logged In:	19-Sep-14 11:14

Work Order Comments:

C-404 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
Temperature Corrected	Y								

C-80 received at 2.3°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
Temperature Corrected	Y								

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 1, 2014

Golder Associates, Inc. (GO007)

Attn: Dusty Reedy

5B Oak Branch Drive

Greensboro, NC 27407

RE: Laboratory Results for
Project Number: 0839650614.100, Project Name/Desc: Henderson County LF
ENCO Workorder(s): C410923

Dear Dusty Reedy,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, September 19, 2014.

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

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

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

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

Sincerely,

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: 01 October 2014
Client: Golder Associates, Inc. (GO007)
Project: Henderson County LF
Lab ID: C410923

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 at the time of sampling.

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

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4501-TSW2	Lab ID: C410923-01	Sampled: 09/18/14 15:10	Received: 09/19/14 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/02/14	09/26/14 15:00	9/26/2014 20:28

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SAMPLE DETECTION SUMMARY

No positive results detected.

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ANALYTICAL RESULTS

Description: 4501-TSW2 **Lab Sample ID:** C410923-01 **Received:** 09/19/14 10:30

Matrix: Surface Water **Sampled:** 09/18/14 15:10 **Work Order:** C410923

Project: Henderson County LF **Sampled By:** A. Stoddard

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	09/26/14 20:28	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/26/14 20:28	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/26/14 20:28	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/26/14 20:28	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/26/14 20:28	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/26/14 20:28	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/26/14 20:28	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/26/14 20:28	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/26/14 20:28	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/26/14 20:28	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/26/14 20:28	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/26/14 20:28	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	09/26/14 20:28	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/26/14 20:28	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/26/14 20:28	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/26/14 20:28	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/26/14 20:28	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/26/14 20:28	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/26/14 20:28	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/26/14 20:28	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/26/14 20:28	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/26/14 20:28	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/26/14 20:28	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/26/14 20:28	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/26/14 20:28	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/26/14 20:28	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/26/14 20:28	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/26/14 20:28	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/26/14 20:28	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	09/26/14 20:28	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/26/14 20:28	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/26/14 20:28	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/26/14 20:28	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/26/14 20:28	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/26/14 20:28	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/26/14 20:28	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/26/14 20:28	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/26/14 20:28	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/26/14 20:28	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/26/14 20:28	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/26/14 20:28	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/26/14 20:28	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/26/14 20:28	MSZ	

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Description: 4501-TSW2
Matrix: Surface Water
Project: Henderson County LF

Lab Sample ID: C410923-01
Sampled: 09/18/14 15:10
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410923

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	09/26/14 20:28	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/26/14 20:28	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	09/26/14 20:28	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	09/26/14 20:28	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*83 %*	*53-136*	*4I26025*	*EPA 8260B*	*09/26/14 20:28*	*MSZ*	
Dibromofluoromethane	*42*	*1*	*50.0*	*83 %*	*67-129*	*4I26025*	*EPA 8260B*	*09/26/14 20:28*	*MSZ*	
Toluene-d8	*41*	*1*	*50.0*	*83 %*	*59-134*	*4I26025*	*EPA 8260B*	*09/26/14 20:28*	*MSZ*	

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

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4I26025 - EPA 5030B_MS

Blank (4I26025-BLK1) Prepared: 09/26/2014 12:00 Analyzed: 09/26/2014 12:53

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*41*			*ug/L*	*50.0*		*82*	*53-136*			

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4I26025 - EPA 5030B_MS

Blank (4I26025-BLK1) Continued Prepared: 09/26/2014 12:00 Analyzed: 09/26/2014 12:53

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*41*			*ug/L*	*50.0*		*81*	*67-129*			
Surrogate: Toluene-d8	*39*			*ug/L*	*50.0*		*79*	*59-134*			

LCS (4I26025-BS1) Prepared: 09/26/2014 12:00 Analyzed: 09/26/2014 13:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0		114	75-133			
Benzene	21		1.0	ug/L	20.0		104	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		100	83-117			
Toluene	21		1.0	ug/L	20.0		104	71-118			
Trichloroethene	20		1.0	ug/L	20.0		98	74-119			

Matrix Spike (4I26025-MS1) Prepared: 09/26/2014 15:00 Analyzed: 09/26/2014 15:55

Source: C412494-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.21 U	117	75-133			
Benzene	21		1.0	ug/L	20.0	0.15 U	104	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	99	83-117			
Toluene	21		1.0	ug/L	20.0	0.14 U	106	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	102	74-119			

Matrix Spike Dup (4I26025-MSD1) Prepared: 09/26/2014 15:00 Analyzed: 09/26/2014 16:25

Source: C412494-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	110	75-133	6	20	
Benzene	21		1.0	ug/L	20.0	0.15 U	105	81-134	0.3	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	98	83-117	0.9	16	
Toluene	21		1.0	ug/L	20.0	0.14 U	105	71-118	1	17	
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	98	74-119	4	22	

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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.

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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: 0839650614.100
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): A. Stoddard, Golder	Billing Contact: Accounts Payable
Sampler(s) Signature: Anna Stoddard	Site Location / Time Zone: Henderson Co / EST

Requested Analyses: 8260B Appendix 1

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C410923

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Sample Comments
	4501-TSW1	9-18-14	—	G	SW	3	X	dry, not sampled
	4501-TSW2	9-18-14	1510	G	SW	3	X	

Preservation (See Codes) (Combine as necessary)

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
KAY	8/27	Anna Stoddard	9-19-14 / 9AM	[illegible]	9/19/14 10:50
		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. Limit routes per "Basic Ordering Agreement for lab services" dated April 9, 2004, 2013 Unit Price sheet
3. Est fee $200

Cooler #'s & Temps on Receipt: C-99 1.6°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

WORK ORDER

Printed: 10/1/2014 11:56:09AM

C410923

ENCO Cary

Sample Receipt Conditions

Client:	**Golder Associates, Inc. (GO007)**	**Lab Project Mgr:**	**Stephanie Franz**
Project:	**Henderson County LF**	**Project Number:**	**0839650614.100**
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:	Andrew S Coons	Date Received:	19-Sep-14 10:30
Logged In By:	Andrew S Coons	Date Logged In:	19-Sep-14 11:38

Work Order Comments:

C-99 received at 1.6°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**
Temperature Corrected	**Y**								

Reviewed By

Date

Project Name: Henderson County MSW Landfill

Project Reference Number: 0839-650614.101

Sampling Event Date: September 17-18, 2014

Review Date: October 24, 2014 *Initials:* DC

Report #: C410921, C410923

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

DC COC was properly signed by all parties.

DC Correct project name and number are on the form.

DC Sample receipt condition at laboratory was acceptable.

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

2.0 SAMPLE HOLDING TIMES

DC 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

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

DC Laboratory blank is interference-free.

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

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

- ***The 8151A surrogate spike recovery of 2,4-DCAA was outside of control limits for the Field Blank. The sample was reprepped (outside of the EPA's recommended holding time) and reanalyzed. Both sets of results are included in this report.***

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

DC 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 2,4-D was outside of control limits for the 8151A MS sample, and precision between duplicates spikes exceeded acceptance criteria. The QC batch was approved based on acceptable LCS recovery of this analyte.***

- ***The spike recoveries of Manganese and Mercury were outside of control limits for the 6010C MS (Manganese) and the 7470A Post Spike sample (Mercury). The QC batches were approved based on acceptable LCS recovery of these elements.***

4.0 ANALYTE LISTS/METHODS

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

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

5.0 DATA REPORTING

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

DC 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.

- **Field Blank**
  - ***Barium @ 1.96 ug/L (J)*** **** B-flags: AMW-2S, AMW-2D***

DC 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.

DC The report provides the reporting limit for each constituent.

DC 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.

DC 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 @ 1050 ug/L***
- **Cadmium** ***(NC2L = 2 ug/L)***
  - ***AMW-1S @ 2.41 ug/L***
- **Cobalt** ***(GWPS = 1 ug/L)***
  - ***MW-6 @ 5.56 ug/L (J)***
  - ***MW-8 @ 5.11 ug/L (J)***
  - ***AMW-1S @ 9.65 ug/L (J)***
  - ***AMW-2S @ 1.23 ug/L (J)***
- **Mercury** ***(NC2L = 1 ug/L)***
  - ***AMW-2S @ 1.53 ug/L***
- **Thallium** ***(NC2L = 0.28 ug/L)***
  - ***MW-8 @ 0.815 ug/L (J)***
  - ***AMW-1S @ 0.663 ug/L (J)***
- **Vanadium** ***(GWPS = 0.3 ug/L)***
  - ***AMW-2S @ 4.57 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***
- **Chlorobenzene** ***(SWSL = 3 ug/L)***
  - ***MW-6 @ 8.0 ug/L***
  - ***MW-7 @ 10 ug/L***
  - ***AMW-1D @ 5.6 ug/L***
- **1,4-Dichlorobenzene** ***(SWSL = 1 ug/L)***
  (NC2L = 6 ug/L)
  - ***MW-6 @ 13 ug/L***
  - ***MW-7 @ 15 ug/L***
  - ***AMW-1D @ 4.3 ug/L***
- **cis-1,2-Dichloroethene** ***(SWSL = 5 ug/L)***
  - ***MW-7 @ 5.0 ug/L***
- **Toluene** ***(SWSL = 1 ug/L)***
  - ***MW-6 @ 75 ug/L***
  - ***AMW-1D @ 2.0 ug/L***
- **Vinyl Chloride** ***(SWSL = 1 ug/L)***
  (NC2L = 0.03 ug/L)
  - ***MW-7 @ 1.1 ug/L***
  - ***AMW-1D @ 0.54 ug/L (J)***

DC 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).

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

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

Friday, October 3, 2014

Golder Associates, Inc. (GO007)

Attn: Dusty Reedy

5B Oak Branch Drive

Greensboro, NC 27407

RE: Laboratory Results for
Project Number: 08396506014.100, Project Name/Desc: Henderson Co. LF C&D
ENCO Workorder(s): C410922

Dear Dusty Reedy,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, September 19, 2014.

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

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

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

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

Sincerely,

Stephanie Franz

Project Manager

Enclosure(s)

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

PROJECT NARRATIVE

Date: 03 October 2014
Client: Golder Associates, Inc. (GO007)
Project: Henderson Co. LF C&D
Lab ID: C410922

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 recovery of 2,4-D was outside of control limits for the 8151 A MS sample, and precision between duplicates spikes exceeded acceptance criteria. The QC batch was approved based on acceptable LCS recovery of this analyte.

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

Precision between duplicate analyses of TDS exceeded acceptance criteria. The QC batch was approved based on acceptable LCS recovery of this analyte.

Quality Control Remarks

The 8151A surrogate spike recovery of 2,4-DCAA was outside of control limits for samples MW-10, MW-12, and MW-13. The samples were reprepped (outside of the EPA's recommended holding time) and reanalyzed. Both sets of results are included in this report.

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.

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

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4501-MW10 | Lab ID: C410922-01 | Sampled: 09/18/14 08:30 | Received: 09/19/14 10:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	10/16/14		09/25/14	11:39	9/25/2014	17:10
EPA 310.2	10/02/14		09/24/14	07:28	9/24/2014	09:13
EPA 6010C	03/17/15		09/22/14	11:07	9/25/2014	13:32
EPA 6020A	03/17/15		09/22/14	11:26	9/24/2014	12:55
EPA 7470A	10/16/14		09/25/14	18:21	9/26/2014	14:01
EPA 8151A	09/25/14	11/02/14	09/23/14	14:30	9/27/2014	00:41
EPA 8260B	10/02/14		09/29/14	14:29	9/29/2014	22:13
SM 2540C-1997	09/25/14		09/22/14	12:46	9/22/2014	12:46

Client ID: 4501-MW10 | Lab ID: C410922-01RE1 | Sampled: 09/18/14 08:30 | Received: 09/19/14 10:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 8151A	09/25/14	11/10/14	10/01/14	16:00	10/3/2014	14:29

Client ID: 4501-MW11 (MS/MSD) | Lab ID: C410922-02 | Sampled: 09/18/14 14:09 | Received: 09/19/14 10:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	10/16/14		09/25/14	11:39	9/25/2014	15:28
EPA 310.2	10/02/14		09/24/14	07:28	9/24/2014	09:10
EPA 6010C	03/17/15		09/22/14	11:07	9/25/2014	12:58
EPA 6020A	03/17/15		09/22/14	11:26	9/24/2014	12:37
EPA 7470A	10/16/14		09/25/14	18:21	9/26/2014	12:58
EPA 8151A	09/25/14	11/02/14	09/23/14	14:30	9/26/2014	23:49
EPA 8260B	10/02/14		09/29/14	14:32	9/30/2014	13:55
SM 2540C-1997	09/25/14		09/22/14	12:46	9/22/2014	12:46

Client ID: 4501-MW12 | Lab ID: C410922-03 | Sampled: 09/18/14 09:35 | Received: 09/19/14 10:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	10/16/14		09/25/14	11:39	9/25/2014	17:27
EPA 310.2	10/02/14		09/24/14	07:28	9/24/2014	09:14
EPA 6010C	03/17/15		09/22/14	11:07	9/25/2014	13:34
EPA 6020A	03/17/15		09/22/14	11:26	9/24/2014	12:59
EPA 7470A	10/16/14		09/25/14	18:21	9/26/2014	14:03
EPA 8151A	09/25/14	11/02/14	09/23/14	14:30	9/27/2014	01:07
EPA 8260B	10/02/14		09/26/14	15:00	9/26/2014	19:26
SM 2540C-1997	09/25/14		09/22/14	12:46	9/22/2014	12:46

Client ID: 4501-MW12 | Lab ID: C410922-03RE1 | Sampled: 09/18/14 09:35 | Received: 09/19/14 10:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 8151A	09/25/14	11/10/14	10/01/14	16:00	10/3/2014	14:55

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Client ID: 4501-MW13	Lab ID: C410922-04	Sampled: 09/18/14 09:25	Received: 09/19/14 10:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	10/16/14		09/25/14	11:39	9/25/2014	17:44
EPA 310.2	10/02/14		09/24/14	07:28	9/24/2014	09:15
EPA 6010C	03/17/15		09/22/14	11:07	9/25/2014	13:37
EPA 6020A	03/17/15		09/22/14	11:26	9/24/2014	13:02
EPA 8151A	09/25/14	11/02/14	09/23/14	14:30	9/27/2014	01:33
EPA 8260B	10/02/14		09/26/14	15:00	9/26/2014	19:57
SM 2540C-1997	09/25/14		09/22/14	12:46	9/22/2014	12:46

Client ID: 4501-MW13	Lab ID: C410922-04RE1	Sampled: 09/18/14 09:25	Received: 09/19/14 10:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 7470A	10/16/14		09/25/14	18:21	9/26/2014	14:59
EPA 8151A	09/25/14	11/10/14	10/01/14	16:00	10/3/2014	15:22

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4501-MW10 **Lab ID: C410922-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.335	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	6.05	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.112	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chloride	2600	J	1	2200	5000	NE	ug/L	EPA 300.0	
Iron - Total	425		1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	16.9	J	1	1.10	10.0	50	ug/L	EPA 6010C	
Zinc - Total	4.00	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW11 (MS/MSD) **Lab ID: C410922-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	4.9	J	1	1.2	5.0	100	ug/L	EPA 8260B	
Antimony - Total	0.893	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	78.8	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.968	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chloride	8900		1	2200	5000	NE	ug/L	EPA 300.0	
Cobalt - Total	7.44	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Iron - Total	6200		1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	1950		1	1.10	10.0	50	ug/L	EPA 6010C	
Sulfate as SO4	49000	J	1	2900	5000	250000	ug/L	EPA 300.0	
Tetrahydrofuran	21		1	0.80	1.0	NE	ug/L	EPA 8260B	
Toluene	1.4		1	0.14	1.0	1	ug/L	EPA 8260B	
Total Alkalinity as CaCO3	96000		1	14000	15000	NE	ug/L	EPA 310.2	
Total Dissolved Solids	180000		1	10000	10000	NE	ug/L	SM 2540C-1997	
Vinyl chloride	0.97	J	1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	15.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW12 **Lab ID: C410922-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	10.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloride	3100	J	1	2200	5000	NE	ug/L	EPA 300.0	
cis-1,2-Dichloroethene	0.90	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Iron - Total	37.0	J	1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	176		1	1.10	10.0	50	ug/L	EPA 6010C	
Tetrachloroethene	0.91	J	1	0.17	1.0	1	ug/L	EPA 8260B	
Total Alkalinity as CaCO3	83000		1	14000	15000	NE	ug/L	EPA 310.2	
Total Dissolved Solids	98000		1	10000	10000	NE	ug/L	SM 2540C-1997	
Vinyl chloride	0.92	J	1	0.32	1.0	1	ug/L	EPA 8260B	

Client ID: 4501-MW13 **Lab ID: C410922-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	0.52	J	1	0.19	1.0	1	ug/L	EPA 8260B	
2,4-D	0.35	J	1	0.27	0.50	2	ug/L	EPA 8151A	
Barium - Total	14.4	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chloride	5400		1	2200	5000	NE	ug/L	EPA 300.0	
cis-1,2-Dichloroethene	3.0	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Iron - Total	454		1	22.0	50.0	300	ug/L	EPA 6010C	
Manganese - Total	64.7		1	1.10	10.0	50	ug/L	EPA 6010C	
Sulfate as SO4	16000	J	1	2900	5000	250000	ug/L	EPA 300.0	
Tetrachloroethene	0.45	J	1	0.17	1.0	1	ug/L	EPA 8260B	

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Client ID: 4501-MW13				Lab ID: C410922-04					
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Tetrahydrofuran	9.5		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	1.6		1	0.24	1.0	1	ug/L	EPA 8260B	
Vinyl chloride	2.0		1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	5.45	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4501-MW13				Lab ID: C410922-04RE1					
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
2,4-D	0.85	J	1	0.27	0.50	2	ug/L	EPA 8151A	Q

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ANALYTICAL RESULTS

Description: 4501-MW10 **Lab Sample ID:** C410922-01 **Received:** 09/19/14 10:30

Matrix: Ground Water **Sampled:** 09/18/14 08:30 **Work Order:** C410922

Project: Henderson Co. LF C&D **Sampled By:** A. Stoddard

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	09/29/14 22:13	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/29/14 22:13	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/29/14 22:13	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 22:13	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/29/14 22:13	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 22:13	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 22:13	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/29/14 22:13	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/29/14 22:13	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/29/14 22:13	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/29/14 22:13	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/29/14 22:13	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	09/29/14 22:13	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/29/14 22:13	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/29/14 22:13	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/29/14 22:13	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/29/14 22:13	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/29/14 22:13	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 22:13	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/29/14 22:13	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 22:13	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/29/14 22:13	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/29/14 22:13	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/29/14 22:13	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 22:13	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 22:13	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/29/14 22:13	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/29/14 22:13	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 22:13	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	09/29/14 22:13	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/29/14 22:13	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/29/14 22:13	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/29/14 22:13	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/29/14 22:13	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/29/14 22:13	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/29/14 22:13	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/29/14 22:13	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/29/14 22:13	MSZ	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	09/29/14 22:13	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/29/14 22:13	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/29/14 22:13	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/29/14 22:13	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/29/14 22:13	MSZ	

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Description: 4501-MW10
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C410922-01
Sampled: 09/18/14 08:30
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410922

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	09/29/14 22:13	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/29/14 22:13	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/29/14 22:13	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	09/29/14 22:13	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	09/29/14 22:13	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*60*	*1*	*50.0*	*119 %*	*53-136*	*4I29027*	*EPA 8260B*	*09/29/14 22:13*	*MSZ*	
Dibromofluoromethane	*57*	*1*	*50.0*	*115 %*	*67-129*	*4I29027*	*EPA 8260B*	*09/29/14 22:13*	*MSZ*	
Toluene-d8	*59*	*1*	*50.0*	*118 %*	*59-134*	*4I29027*	*EPA 8260B*	*09/29/14 22:13*	*MSZ*	

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Description:	4501-MW10	**Lab Sample ID:**	C410922-01	**Received:**	09/19/14 10:30
Matrix:	Ground Water	**Sampled:**	09/18/14 08:30	**Work Order:**	C410922
Project:	Henderson Co. LF C&D	**Sampled By:**	A. Stoddard		

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	09/26/14 14:01	T1D	

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Description: 4501-MW10 | **Lab Sample ID:** C410922-01 | **Received:** 09/19/14 10:30

Matrix: Ground Water | **Sampled:** 09/18/14 08:30 | **Work Order:** C410922

Project: Henderson Co. LF C&D | **Sampled By:** A. Stoddard

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] ^	**0.335**	J	ug/L	1	0.220	2.00	6	EPA 6020A	09/24/14 12:55	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/25/14 13:32	JDH	
Barium [7440-39-3] ^	**6.05**	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/25/14 13:32	JDH	
Beryllium [7440-41-7] ^	**0.112**	J	ug/L	1	0.100	1.00	1	EPA 6010C	09/25/14 13:32	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/25/14 13:32	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	09/25/14 13:32	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	09/25/14 13:32	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/25/14 13:32	JDH	
Iron [7439-89-6] ^	**425**		ug/L	1	22.0	50.0	300	EPA 6010C	09/25/14 13:32	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/25/14 13:32	JDH	
Manganese [7439-96-5] ^	**16.9**	J	ug/L	1	1.10	10.0	50	EPA 6010C	09/25/14 13:32	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/25/14 13:32	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/25/14 13:32	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/25/14 13:32	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/24/14 12:55	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/25/14 13:32	JDH	
Zinc [7440-66-6] ^	**4.00**	J	ug/L	1	3.80	10.0	10	EPA 6010C	09/25/14 13:32	JDH	

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Description: 4501-MW10
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C410922-01
Sampled: 09/18/14 08:30
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410922

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] ^	**2600**	J	ug/L	1	2200	5000	NE	EPA 300.0	09/25/14 17:10	CV	
Sulfate as SO4 [14808-79-8] ^	2900	U	ug/L	1	2900	5000	250000	EPA 300.0	09/25/14 17:10	CV	
Total Alkalinity as CaCO3 [471-34-1] ^	14000	U	ug/L	1	14000	15000	NE	EPA 310.2	09/24/14 09:13	c1v	
Total Dissolved Solids [ECL-0156] ^	10000	U	ug/L	1	10000	10000	NE	SM 2540C-1997	09/22/14 12:46	MMR	

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Description: 4501-MW10 | **Lab Sample ID:** C410922-01 | **Received:** 09/19/14 10:30

Matrix: Ground Water | **Sampled:** 09/18/14 08:30 | **Work Order:** C410922

Project: Henderson Co. LF C&D | **Sampled By:** A. Stoddard

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] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	09/27/14 00:41	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/03/14 14:29	RC	Q

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*0.54*	*1*	*2.00*	*27 %*	*68-139*	*4I23011*	*EPA 8151A*	*09/27/14 00:41*	*RC*	*QS-03*
2,4-DCAA	*2.0*	*1*	*2.08*	*97 %*	*68-139*	*4J01027*	*EPA 8151A*	*10/03/14 14:29*	*RC*	*Q*

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-MW11 (MS/MSD) | **Lab Sample ID:** C410922-02 | **Received:** 09/19/14 10:30

Matrix: Ground Water | **Sampled:** 09/18/14 14:09 | **Work Order:** C410922

Project: Henderson Co. LF C&D | **Sampled By:** A. Stoddard

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	09/30/14 13:55	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/30/14 13:55	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/30/14 13:55	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/30/14 13:55	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/30/14 13:55	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/30/14 13:55	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/30/14 13:55	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/30/14 13:55	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/30/14 13:55	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/30/14 13:55	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/30/14 13:55	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/30/14 13:55	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	09/30/14 13:55	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/30/14 13:55	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/30/14 13:55	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/30/14 13:55	MSZ	
Acetone [67-64-1] ^	**4.9**	J	ug/L	1	1.2	5.0	100	EPA 8260B	09/30/14 13:55	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/30/14 13:55	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/30/14 13:55	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/30/14 13:55	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/30/14 13:55	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/30/14 13:55	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/30/14 13:55	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/30/14 13:55	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/30/14 13:55	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/30/14 13:55	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/30/14 13:55	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/30/14 13:55	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/30/14 13:55	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	09/30/14 13:55	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/30/14 13:55	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/30/14 13:55	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/30/14 13:55	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/30/14 13:55	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/30/14 13:55	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/30/14 13:55	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/30/14 13:55	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/30/14 13:55	MSZ	
Tetrahydrofuran [109-99-9] ^	**21**		ug/L	1	0.80	1.0		EPA 8260B	09/30/14 13:55	MSZ	
Toluene [108-88-3] ^	**1.4**		ug/L	1	0.14	1.0	1	EPA 8260B	09/30/14 13:55	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/30/14 13:55	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/30/14 13:55	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/30/14 13:55	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/30/14 13:55	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/30/14 13:55	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/30/14 13:55	MSZ	

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Description: 4501-MW11 (MS/MSD) | **Lab Sample ID:** C410922-02 | **Received:** 09/19/14 10:30

Matrix: Ground Water | **Sampled:** 09/18/14 14:09 | **Work Order:** C410922

Project: Henderson Co. LF C&D | **Sampled By:** A. Stoddard

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] ^	**0.97**	J	ug/L	1	0.32	1.0	1	EPA 8260B	09/30/14 13:55	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	09/30/14 13:55	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*40*	*1*	*50.0*	*80 %*	*53-136*	*4I29028*	*EPA 8260B*	*09/30/14 13:55*	*MSZ*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*67-129*	*4I29028*	*EPA 8260B*	*09/30/14 13:55*	*MSZ*	
Toluene-d8	*41*	*1*	*50.0*	*82 %*	*59-134*	*4I29028*	*EPA 8260B*	*09/30/14 13:55*	*MSZ*	

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Description:	4501-MW11 (MS/MSD)	**Lab Sample ID:**	C410922-02	**Received:**	09/19/14 10:30
Matrix:	Ground Water	**Sampled:**	09/18/14 14:09	**Work Order:**	C410922
Project:	Henderson Co. LF C&D	**Sampled By:**	A. Stoddard		

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	09/26/14 12:58	T1D	

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Description: 4501-MW11 (MS/MSD) **Lab Sample ID:** C410922-02 **Received:** 09/19/14 10:30

Matrix: Ground Water **Sampled:** 09/18/14 14:09 **Work Order:** C410922

Project: Henderson Co. LF C&D **Sampled By:** A. Stoddard

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] ^	**0.893**	J	ug/L	1	0.220	2.00	6	EPA 6020A	09/24/14 12:37	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/25/14 12:58	JDH	
Barium [7440-39-3] ^	**78.8**	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/25/14 12:58	JDH	
Beryllium [7440-41-7] ^	**0.968**	J	ug/L	1	0.100	1.00	1	EPA 6010C	09/25/14 12:58	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/25/14 12:58	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	09/25/14 12:58	JDH	
Cobalt [7440-48-4] ^	**7.44**	J	ug/L	1	1.10	10.0	10	EPA 6010C	09/25/14 12:58	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/25/14 12:58	JDH	
Iron [7439-89-6] ^	**6200**		ug/L	1	22.0	50.0	300	EPA 6010C	09/25/14 12:58	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/25/14 12:58	JDH	
Manganese [7439-96-5] ^	**1950**		ug/L	1	1.10	10.0	50	EPA 6010C	09/25/14 12:58	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/25/14 12:58	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/25/14 12:58	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/25/14 12:58	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/24/14 12:37	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/25/14 12:58	JDH	
Zinc [7440-66-6] ^	**15.5**		ug/L	1	3.80	10.0	10	EPA 6010C	09/25/14 12:58	JDH	

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Description: 4501-MW11 (MS/MSD) | **Lab Sample ID:** C410922-02 | **Received:** 09/19/14 10:30

Matrix: Ground Water | **Sampled:** 09/18/14 14:09 | **Work Order:** C410922

Project: Henderson Co. LF C&D | **Sampled By:** A. Stoddard

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] ^	**8900**		ug/L	1	2200	5000	NE	EPA 300.0	09/25/14 15:28	CV	
Sulfate as SO4 [14808-79-8] ^	**49000**	J	ug/L	1	2900	5000	250000	EPA 300.0	09/25/14 15:28	CV	
Total Alkalinity as CaCO3 [471-34-1] ^	**96000**		ug/L	1	14000	15000	NE	EPA 310.2	09/24/14 09:10	c1v	
Total Dissolved Solids [ECL-0156] ^	**180000**		ug/L	1	10000	10000	NE	SM 2540C-1997	09/22/14 12:46	MMR	

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Description:	4501-MW11 (MS/MSD)	**Lab Sample ID:**	C410922-02	**Received:**	09/19/14 10:30
Matrix:	Ground Water	**Sampled:**	09/18/14 14:09	**Work Order:**	C410922
Project:	Henderson Co. LF C&D	**Sampled By:**	A. Stoddard		

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] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	09/26/14 23:49	RC	QM-07, QM-11

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.4*	*1*	*2.00*	*70 %*	*68-139*	*4I23011*	*EPA 8151A*	*09/26/14 23:49*	*RC*	

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-MW12 | **Lab Sample ID:** C410922-03 | **Received:** 09/19/14 10:30

Matrix: Ground Water | **Sampled:** 09/18/14 09:35 | **Work Order:** C410922

Project: Henderson Co. LF C&D | **Sampled By:** A. Stoddard

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	09/26/14 19:26	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/26/14 19:26	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/26/14 19:26	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/26/14 19:26	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/26/14 19:26	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/26/14 19:26	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/26/14 19:26	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/26/14 19:26	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/26/14 19:26	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/26/14 19:26	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/26/14 19:26	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/26/14 19:26	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	09/26/14 19:26	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/26/14 19:26	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/26/14 19:26	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/26/14 19:26	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/26/14 19:26	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/26/14 19:26	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/26/14 19:26	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/26/14 19:26	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/26/14 19:26	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/26/14 19:26	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/26/14 19:26	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/26/14 19:26	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/26/14 19:26	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/26/14 19:26	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/26/14 19:26	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/26/14 19:26	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/26/14 19:26	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**0.90**	J	ug/L	1	0.15	1.0	5	EPA 8260B	09/26/14 19:26	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/26/14 19:26	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/26/14 19:26	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/26/14 19:26	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/26/14 19:26	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/26/14 19:26	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/26/14 19:26	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/26/14 19:26	MSZ	
Tetrachloroethene [127-18-4] ^	**0.91**	J	ug/L	1	0.17	1.0	1	EPA 8260B	09/26/14 19:26	MSZ	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	09/26/14 19:26	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/26/14 19:26	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/26/14 19:26	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/26/14 19:26	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/26/14 19:26	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/26/14 19:26	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	09/26/14 19:26	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/26/14 19:26	MSZ	

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Description: 4501-MW12
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C410922-03
Sampled: 09/18/14 09:35
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410922

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] ^	**0.92**	J	ug/L	1	0.32	1.0	1	EPA 8260B	09/26/14 19:26	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	09/26/14 19:26	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*40*	*1*	*50.0*	*81 %*	*53-136*	*4I26025*	*EPA 8260B*	*09/26/14 19:26*	*MSZ*	
Dibromofluoromethane	*42*	*1*	*50.0*	*83 %*	*67-129*	*4I26025*	*EPA 8260B*	*09/26/14 19:26*	*MSZ*	
Toluene-d8	*41*	*1*	*50.0*	*81 %*	*59-134*	*4I26025*	*EPA 8260B*	*09/26/14 19:26*	*MSZ*	

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Description: 4501-MW12
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C410922-03
Sampled: 09/18/14 09:35
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410922

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	09/26/14 14:03	T1D	

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Description: 4501-MW12 | **Lab Sample ID:** C410922-03 | **Received:** 09/19/14 10:30

Matrix: Ground Water | **Sampled:** 09/18/14 09:35 | **Work Order:** C410922

Project: Henderson Co. LF C&D | **Sampled By:** A. Stoddard

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	09/24/14 12:59	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/25/14 13:34	JDH	
Barium [7440-39-3] ^	**10.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/25/14 13:34	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/25/14 13:34	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/25/14 13:34	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	09/25/14 13:34	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	09/25/14 13:34	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/25/14 13:34	JDH	
Iron [7439-89-6] ^	**37.0**	J	ug/L	1	22.0	50.0	300	EPA 6010C	09/25/14 13:34	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/25/14 13:34	JDH	
Manganese [7439-96-5] ^	**176**		ug/L	1	1.10	10.0	50	EPA 6010C	09/25/14 13:34	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/25/14 13:34	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/25/14 13:34	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/25/14 13:34	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/24/14 12:59	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/25/14 13:34	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	09/25/14 13:34	JDH	

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Description: 4501-MW12
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C410922-03
Sampled: 09/18/14 09:35
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410922

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] ^	**3100**	J	ug/L	1	2200	5000	NE	EPA 300.0	09/25/14 17:27	CV	
Sulfate as SO4 [14808-79-8] ^	2900	U	ug/L	1	2900	5000	250000	EPA 300.0	09/25/14 17:27	CV	
Total Alkalinity as CaCO3 [471-34-1] ^	**83000**		ug/L	1	14000	15000	NE	EPA 310.2	09/24/14 09:14	c1v	
Total Dissolved Solids [ECL-0156] ^	**98000**		ug/L	1	10000	10000	NE	SM 2540C-1997	09/22/14 12:46	MMR	

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Description: 4501-MW12 | **Lab Sample ID:** C410922-03 | **Received:** 09/19/14 10:30

Matrix: Ground Water | **Sampled:** 09/18/14 09:35 | **Work Order:** C410922

Project: Henderson Co. LF C&D | **Sampled By:** A. Stoddard

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] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	09/27/14 01:07	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/03/14 14:55	RC	Q

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*0.29*	*1*	*2.00*	*14 %*	*68-139*	*4I23011*	*EPA 8151A*	*09/27/14 01:07*	*RC*	
2,4-DCAA	*1.7*	*1*	*2.02*	*83 %*	*68-139*	*4J01027*	*EPA 8151A*	*10/03/14 14:55*	*RC*	*Q*

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-MW13 | **Lab Sample ID:** C410922-04 | **Received:** 09/19/14 10:30

Matrix: Ground Water | **Sampled:** 09/18/14 09:25 | **Work Order:** C410922

Project: Henderson Co. LF C&D | **Sampled By:** A. Stoddard

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	09/26/14 19:57	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	09/26/14 19:57	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	09/26/14 19:57	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/26/14 19:57	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	09/26/14 19:57	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/26/14 19:57	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/26/14 19:57	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/26/14 19:57	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	09/26/14 19:57	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	09/26/14 19:57	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	09/26/14 19:57	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	09/26/14 19:57	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	**0.52**	J	ug/L	1	0.19	1.0	1	EPA 8260B	09/26/14 19:57	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	09/26/14 19:57	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	09/26/14 19:57	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/26/14 19:57	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	09/26/14 19:57	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	09/26/14 19:57	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/26/14 19:57	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	09/26/14 19:57	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/26/14 19:57	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	09/26/14 19:57	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	09/26/14 19:57	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/26/14 19:57	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	09/26/14 19:57	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/26/14 19:57	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	09/26/14 19:57	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	09/26/14 19:57	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/26/14 19:57	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**3.0**	J	ug/L	1	0.15	1.0	5	EPA 8260B	09/26/14 19:57	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/26/14 19:57	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	09/26/14 19:57	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	09/26/14 19:57	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	09/26/14 19:57	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	09/26/14 19:57	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	09/26/14 19:57	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	09/26/14 19:57	MSZ	
Tetrachloroethene [127-18-4] ^	**0.45**	J	ug/L	1	0.17	1.0	1	EPA 8260B	09/26/14 19:57	MSZ	
Tetrahydrofuran [109-99-9] ^	**9.5**		ug/L	1	0.80	1.0		EPA 8260B	09/26/14 19:57	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	09/26/14 19:57	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	09/26/14 19:57	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/26/14 19:57	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	09/26/14 19:57	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	09/26/14 19:57	MSZ	
Trichlorofluoromethane [75-69-4] ^	**1.6**		ug/L	1	0.24	1.0	1	EPA 8260B	09/26/14 19:57	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	09/26/14 19:57	MSZ	

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Description: 4501-MW13
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C410922-04
Sampled: 09/18/14 09:25
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410922

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] ^	**2.0**		ug/L	1	0.32	1.0	1	EPA 8260B	09/26/14 19:57	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	09/26/14 19:57	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*82 %*	*53-136*	*4I26025*	*EPA 8260B*	*09/26/14 19:57*	*MSZ*	
Dibromofluoromethane	*41*	*1*	*50.0*	*82 %*	*67-129*	*4I26025*	*EPA 8260B*	*09/26/14 19:57*	*MSZ*	
Toluene-d8	*41*	*1*	*50.0*	*81 %*	*59-134*	*4I26025*	*EPA 8260B*	*09/26/14 19:57*	*MSZ*	

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Description:	4501-MW13	**Lab Sample ID:**	C410922-04	**Received:**	09/19/14 10:30
Matrix:	Ground Water	**Sampled:**	09/18/14 09:25	**Work Order:**	C410922
Project:	Henderson Co. LF C&D	**Sampled By:**	A. Stoddard		

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	09/26/14 14:59	T1D	

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Description: 4501-MW13
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C410922-04
Sampled: 09/18/14 09:25
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410922

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	09/24/14 13:02	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	09/25/14 13:37	JDH	
Barium [7440-39-3] ^	**14.4**	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/25/14 13:37	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/25/14 13:37	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/25/14 13:37	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	09/25/14 13:37	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	09/25/14 13:37	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/25/14 13:37	JDH	
Iron [7439-89-6] ^	**454**		ug/L	1	22.0	50.0	300	EPA 6010C	09/25/14 13:37	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	09/25/14 13:37	JDH	
Manganese [7439-96-5] ^	**64.7**		ug/L	1	1.10	10.0	50	EPA 6010C	09/25/14 13:37	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/25/14 13:37	JDH	
Selenium [7782-49-2] ^	5.00	U	ug/L	1	5.00	10.0	10	EPA 6010C	09/25/14 13:37	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/25/14 13:37	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/24/14 13:02	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/25/14 13:37	JDH	
Zinc [7440-66-6] ^	**5.45**	J	ug/L	1	3.80	10.0	10	EPA 6010C	09/25/14 13:37	JDH	

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Description: 4501-MW13
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C410922-04
Sampled: 09/18/14 09:25
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410922

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] ^	**5400**		ug/L	1	2200	5000	NE	EPA 300.0	09/25/14 17:44	CV	
Sulfate as SO4 [14808-79-8] ^	**16000**	J	ug/L	1	2900	5000	250000	EPA 300.0	09/25/14 17:44	CV	
Total Alkalinity as CaCO3 [471-34-1] ^	**110000**		ug/L	1	14000	15000	NE	EPA 310.2	09/24/14 09:15	c1v	
Total Dissolved Solids [ECL-0156] ^	**180000**		ug/L	1	10000	10000	NE	SM 2540C-1997	09/22/14 12:46	MMR	

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Description: 4501-MW13
Matrix: Ground Water
Project: Henderson Co. LF C&D

Lab Sample ID: C410922-04
Sampled: 09/18/14 09:25
Sampled By: A. Stoddard

Received: 09/19/14 10:30
Work Order: C410922

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] ^	**0.35**	J	ug/L	1	0.27	0.50	2	EPA 8151A	09/27/14 01:33	RC	
2,4-D [94-75-7] ^	**0.85**	J	ug/L	1	0.27	0.50	2	EPA 8151A	10/03/14 15:22	RC	Q

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*0.41*	*1*	*2.00*	*20 %*	*68-139*	*4I23011*	*EPA 8151A*	*09/27/14 01:33*	*RC*	
2,4-DCAA	*2.4*	*1*	*2.02*	*119 %*	*68-139*	*4J01027*	*EPA 8151A*	*10/03/14 15:22*	*RC*	*Q*

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

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4I26025 - EPA 5030B_MS

Blank (4I26025-BLK1) Prepared: 09/26/2014 12:00 Analyzed: 09/26/2014 12:53

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							

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4I26025 - EPA 5030B_MS

Blank (4I26025-BLK1) Continued Prepared: 09/26/2014 12:00 Analyzed: 09/26/2014 12:53

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*	*53-136*			
Surrogate: Dibromofluoromethane	*41*			*ug/L*	*50.0*		*81*	*67-129*			
Surrogate: Toluene-d8	*39*			*ug/L*	*50.0*		*79*	*59-134*			

LCS (4I26025-BS1) Prepared: 09/26/2014 12:00 Analyzed: 09/26/2014 13:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0		114	75-133			
Benzene	21		1.0	ug/L	20.0		104	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		100	83-117			
Toluene	21		1.0	ug/L	20.0		104	71-118			
Trichloroethene	20		1.0	ug/L	20.0		98	74-119			

Matrix Spike (4I26025-MS1) Prepared: 09/26/2014 15:00 Analyzed: 09/26/2014 15:55

Source: C412494-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.21 U	117	75-133			
Benzene	21		1.0	ug/L	20.0	0.15 U	104	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	99	83-117			
Toluene	21		1.0	ug/L	20.0	0.14 U	106	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	102	74-119			

Matrix Spike Dup (4I26025-MSD1) Prepared: 09/26/2014 15:00 Analyzed: 09/26/2014 16:25

Source: C412494-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	110	75-133	6	20	
Benzene	21		1.0	ug/L	20.0	0.15 U	105	81-134	0.3	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	98	83-117	0.9	16	
Toluene	21		1.0	ug/L	20.0	0.14 U	105	71-118	1	17	
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	98	74-119	4	22	

Batch 4I29027 - EPA 5030B_MS

Blank (4I29027-BLK1) Prepared: 09/29/2014 10:26 Analyzed: 09/29/2014 14:02

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							

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Volatile Organic Compounds by GCMS - Quality Control

Batch 4I29027 - EPA 5030B_MS

Blank (4I29027-BLK1) Continued Prepared: 09/29/2014 10:26 Analyzed: 09/29/2014 14:02

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	*57*			*ug/L*	*50.0*		*114*	*53-136*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*106*	*67-129*			
Surrogate: Toluene-d8	*58*			*ug/L*	*50.0*		*115*	*59-134*			

LCS (4I29027-BS1) Prepared: 09/29/2014 14:29 Analyzed: 09/29/2014 22:44

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		96	75-133			
Benzene	19		1.0	ug/L	20.0		97	81-134			

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Volatile Organic Compounds by GCMS - Quality Control

Batch 4I29027 - EPA 5030B_MS

LCS (4I29027-BS1) Continued Prepared: 09/29/2014 14:29 Analyzed: 09/29/2014 22:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	17		1.0	ug/L	20.0		87	83-117			
Toluene	18		1.0	ug/L	20.0		88	71-118			
Trichloroethene	20		1.0	ug/L	20.0		100	74-119			

Matrix Spike (4I29027-MS1) Prepared: 09/29/2014 14:29 Analyzed: 09/29/2014 15:50

Source: C412610-06

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	19		1.0	ug/L	20.0	0.15 U	97	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	99	83-117			
Toluene	18		1.0	ug/L	20.0	0.14 U	92	71-118			
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	91	74-119			

Matrix Spike Dup (4I29027-MSD1) Prepared: 09/29/2014 14:29 Analyzed: 09/29/2014 16:20

Source: C412610-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.21 U	101	75-133	10	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	97	81-134	0.3	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	96	83-117	3	16	
Toluene	18		1.0	ug/L	20.0	0.14 U	90	71-118	1	17	
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	96	74-119	5	22	

Batch 4I29028 - EPA 5030B_MS

Blank (4I29028-BLK1) Prepared: 09/29/2014 14:32 Analyzed: 09/30/2014 11:24

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							

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Volatile Organic Compounds by GCMS - Quality Control

Batch 4I29028 - EPA 5030B_MS

Blank (4I29028-BLK1) Continued Prepared: 09/29/2014 14:32 Analyzed: 09/30/2014 11:24

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							
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	*41*			*ug/L*	*50.0*		*82*	*53-136*			
Surrogate: Dibromofluoromethane	*41*			*ug/L*	*50.0*		*83*	*67-129*			
Surrogate: Toluene-d8	*40*			*ug/L*	*50.0*		*80*	*59-134*			

LCS (4I29028-BS1) Prepared: 09/29/2014 14:32 Analyzed: 09/30/2014 11:54

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		111	75-133			
Benzene	20		1.0	ug/L	20.0		102	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		96	83-117			
Toluene	20		1.0	ug/L	20.0		102	71-118			
Trichloroethene	19		1.0	ug/L	20.0		96	74-119			

Matrix Spike (4I29028-MS1) Prepared: 09/29/2014 14:32 Analyzed: 09/30/2014 12:24

Source: C410922-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	26		1.0	ug/L	20.0	0.21 U	130	75-133			
Benzene	24		1.0	ug/L	20.0	0.15 U	120	81-134			

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Volatile Organic Compounds by GCMS - Quality Control

Batch 4I29028 - EPA 5030B_MS

Matrix Spike (4I29028-MS1) Continued Prepared: 09/29/2014 14:32 Analyzed: 09/30/2014 12:24

Source: C410922-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	105	83-117			
Toluene	24		1.0	ug/L	20.0	1.4	113	71-118			
Trichloroethene	22		1.0	ug/L	20.0	0.15 U	111	74-119			

Matrix Spike Dup (4I29028-MSD1) Prepared: 09/29/2014 14:32 Analyzed: 09/30/2014 12:54

Source: C410922-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0	0.21 U	122	75-133	6	20	
Benzene	22		1.0	ug/L	20.0	0.15 U	110	81-134	9	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	101	83-117	4	16	
Toluene	23		1.0	ug/L	20.0	1.4	107	71-118	5	17	
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	106	74-119	5	22	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 4I25040 - EPA 7470A

Blank (4I25040-BLK1) Prepared: 09/25/2014 18:21 Analyzed: 09/26/2014 12:54

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

Blank (4I25040-BLK2) Prepared: 09/25/2014 18:21 Analyzed: 09/26/2014 13:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.40	U	4.00	ug/L							

LCS (4I25040-BS1) Prepared: 09/25/2014 18:21 Analyzed: 09/26/2014 12:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.70		0.200	ug/L	5.00		94	80-120			

Matrix Spike (4I25040-MS1) Prepared: 09/25/2014 18:21 Analyzed: 09/26/2014 13:05

Source: C410922-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.91		0.200	ug/L	5.00	0.170 U	98	75-125			

Matrix Spike Dup (4I25040-MSD1) Prepared: 09/25/2014 18:21 Analyzed: 09/26/2014 13:07

Source: C410922-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.90		0.200	ug/L	5.00	0.170 U	98	75-125	0.2	25	

Post Spike (4I25040-PS1) Prepared: 09/25/2014 18:21 Analyzed: 09/26/2014 13:09

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Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 4I25040 - EPA 7470A

Post Spike (4I25040-PS1) Continued Prepared: 09/25/2014 18:21 Analyzed: 09/26/2014 13:09

Source: C410922-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.81		0.200	ug/L	5.00	-0.0200	76	75-125			

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

Batch 4I22011 - EPA 3005A

Blank (4I22011-BLK1) Prepared: 09/22/2014 11:07 Analyzed: 09/25/2014 12:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	5.40	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.40	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
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 (4I22011-BS1) Prepared: 09/22/2014 11:07 Analyzed: 09/25/2014 12:55

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	211		10.0	ug/L	200		106	80-120			
Beryllium	20.7		1.00	ug/L	20.0		104	80-120			
Cadmium	21.1		1.00	ug/L	20.0		106	80-120			
Chromium	202		10.0	ug/L	200		101	80-120			
Cobalt	209		10.0	ug/L	200		104	80-120			
Copper	199		10.0	ug/L	200		99	80-120			
Iron	1040		50.0	ug/L	1000		104	80-120			
Lead	202		10.0	ug/L	200		101	80-120			
Manganese	204		10.0	ug/L	200		102	80-120			
Nickel	211		10.0	ug/L	200		105	80-120			
Selenium	206		10.0	ug/L	200		103	80-120			
Silver	206		10.0	ug/L	200		103	80-120			
Vanadium	198		10.0	ug/L	200		99	80-120			
Zinc	212		10.0	ug/L	200		106	80-120			

Matrix Spike (4I22011-MS1) Prepared: 09/22/2014 11:07 Analyzed: 09/25/2014 13:02

Source: C410922-02

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QUALITY CONTROL

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

Batch 4I22011 - EPA 3005A

Matrix Spike (4I22011-MS1) Continued Prepared: 09/22/2014 11:07 Analyzed: 09/25/2014 13:02

Source: C410922-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	197		10.0	ug/L	200	5.40 U	98	75-125			
Barium	288		10.0	ug/L	200	78.8	105	75-125			
Beryllium	21.5		1.00	ug/L	20.0	0.968	103	75-125			
Cadmium	21.1		1.00	ug/L	20.0	0.360 U	105	75-125			
Chromium	203		10.0	ug/L	200	1.40 U	102	75-125			
Cobalt	214		10.0	ug/L	200	7.44	104	75-125			
Copper	199		10.0	ug/L	200	1.60 U	100	75-125			
Iron	7460		50.0	ug/L	1000	6200	127	75-125			QM-05
Lead	200		10.0	ug/L	200	2.10 U	100	75-125			
Manganese	2160		10.0	ug/L	200	1950	104	75-125			
Nickel	210		10.0	ug/L	200	1.80 U	105	75-125			
Selenium	202		10.0	ug/L	200	5.00 U	101	75-125			
Silver	205		10.0	ug/L	200	1.90 U	102	75-125			
Vanadium	196		10.0	ug/L	200	1.40 U	98	75-125			
Zinc	225		10.0	ug/L	200	15.5	105	75-125			

Matrix Spike Dup (4I22011-MSD1) Prepared: 09/22/2014 11:07 Analyzed: 09/25/2014 13:04

Source: C410922-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	203		10.0	ug/L	200	5.40 U	101	75-125	3	20	
Barium	288		10.0	ug/L	200	78.8	105	75-125	0.1	20	
Beryllium	21.8		1.00	ug/L	20.0	0.968	104	75-125	1	20	
Cadmium	21.1		1.00	ug/L	20.0	0.360 U	106	75-125	0.2	20	
Chromium	202		10.0	ug/L	200	1.40 U	101	75-125	1	20	
Cobalt	215		10.0	ug/L	200	7.44	104	75-125	0.4	20	
Copper	200		10.0	ug/L	200	1.60 U	100	75-125	0.1	20	
Iron	7470		50.0	ug/L	1000	6200	127	75-125	0.06	20	QM-05
Lead	204		10.0	ug/L	200	2.10 U	102	75-125	2	20	
Manganese	2170		10.0	ug/L	200	1950	108	75-125	0.3	20	
Nickel	210		10.0	ug/L	200	1.80 U	105	75-125	0.4	20	
Selenium	206		10.0	ug/L	200	5.00 U	103	75-125	2	20	
Silver	204		10.0	ug/L	200	1.90 U	102	75-125	0.08	20	
Vanadium	198		10.0	ug/L	200	1.40 U	99	75-125	0.8	20	
Zinc	227		10.0	ug/L	200	15.5	106	75-125	0.8	20	

Post Spike (4I22011-PS1) Prepared: 09/22/2014 11:07 Analyzed: 09/25/2014 13:07

Source: C410922-02

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	-0.00154	96	80-120			
Barium	0.281		0.0100	mg/L	0.200	0.0788	101	80-120			
Beryllium	0.0208		0.00100	mg/L	0.0200	0.000968	99	80-120			
Cadmium	0.0204		0.00100	mg/L	0.0200	0.000337	101	80-120			
Chromium	0.194		0.0100	mg/L	0.200	0.000711	97	80-120			
Cobalt	0.208		0.0100	mg/L	0.200	0.00744	100	80-120			
Copper	0.191		0.0100	mg/L	0.200	0.000153	95	80-120			

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QUALITY CONTROL

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

Batch 4I22011 - EPA 3005A

Post Spike (4I22011-PS1) Continued Prepared: 09/22/2014 11:07 Analyzed: 09/25/2014 13:07

Source: C410922-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Iron	7.09		0.0500	mg/L	1.00	6.20	89	80-120			
Lead	0.198		0.0100	mg/L	0.200	-0.00160	99	80-120			
Manganese	2.13		0.0100	mg/L	0.200	1.95	86	80-120			
Nickel	0.203		0.0100	mg/L	0.200	0.000730	101	80-120			
Selenium	0.197		0.0100	mg/L	0.200	-0.00192	99	80-120			
Silver	0.190		0.0100	mg/L	0.200	0.000727	95	80-120			
Vanadium	0.189		0.0100	mg/L	0.200	-0.000785	94	80-120			
Zinc	0.220		0.0100	mg/L	0.200	0.0155	102	80-120			

Batch 4I22013 - EPA 3005A

Blank (4I22013-BLK1) Prepared: 09/22/2014 11:26 Analyzed: 09/24/2014 12:15

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 (4I22013-BS1) Prepared: 09/22/2014 11:26 Analyzed: 09/24/2014 12:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	193		2.00	ug/L	200		97	80-120			
Thallium	201		1.00	ug/L	200		100	80-120			

Matrix Spike (4I22013-MS1) Prepared: 09/22/2014 11:26 Analyzed: 09/24/2014 12:41

Source: C410922-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	201		2.00	ug/L	200	0.893	100	75-125			
Thallium	190		1.00	ug/L	200	0.110 U	95	75-125			

Matrix Spike Dup (4I22013-MSD1) Prepared: 09/22/2014 11:26 Analyzed: 09/24/2014 12:44

Source: C410922-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	204		2.00	ug/L	200	0.893	102	75-125	2	20	
Thallium	193		1.00	ug/L	200	0.110 U	97	75-125	2	20	

Post Spike (4I22013-PS1) Prepared: 09/22/2014 11:26 Analyzed: 09/24/2014 12:48

Source: C410922-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	190		2.00	ug/L	200	0.893	95	80-120			
Thallium	178		1.00	ug/L	200	0.0348	89	80-120			

Classical Chemistry Parameters - Quality Control

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QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 4I22005 - NO PREP

Blank (4I22005-BLK1) Prepared & Analyzed: 09/22/2014 12:46

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 (4I22005-BS1) Prepared & Analyzed: 09/22/2014 12:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	980		10	mg/L	1000		98	90-110			

Duplicate (4I22005-DUP1) Prepared & Analyzed: 09/22/2014 12:46

Source: C410922-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	200000		10000	ug/L		180000			11	5	QM-12

Duplicate (4I22005-DUP2) Prepared & Analyzed: 09/22/2014 12:46

Source: C411583-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	190000		10000	ug/L		170000			11	5	QM-12

Batch 4I24001 - NO PREP

Blank (4I24001-BLK1) Prepared: 09/24/2014 07:28 Analyzed: 09/24/2014 09:08

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 (4I24001-BS1) Prepared: 09/24/2014 07:28 Analyzed: 09/24/2014 09:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	97		15	mg/L	100		97	80-120			

Matrix Spike (4I24001-MS1) Prepared: 09/24/2014 07:28 Analyzed: 09/24/2014 09:11

Source: C410922-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	140000		15000	ug/L	37800	96000	105	80-120			

Matrix Spike Dup (4I24001-MSD1) Prepared: 09/24/2014 07:28 Analyzed: 09/24/2014 09:12

Source: C410922-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	140000		15000	ug/L	37800	96000	105	80-120	0.1	25	

Batch 4I25016 - NO PREP

Blank (4I25016-BLK1) Prepared: 09/25/2014 11:39 Analyzed: 09/25/2014 12:38

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QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 4I25016 - NO PREP

Blank (4I25016-BLK1) Continued Prepared: 09/25/2014 11:39 Analyzed: 09/25/2014 12:38

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	2900	U	5000	ug/L							

LCS (4I25016-BS1) Prepared: 09/25/2014 11:39 Analyzed: 09/25/2014 13:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	48000		5000	ug/L	50000		96	90-110			
Sulfate as SO4	47000		5000	ug/L	50000		94	90-110			

Matrix Spike (4I25016-MS1) Prepared: 09/25/2014 11:39 Analyzed: 09/25/2014 16:19

Source: C410922-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	28000		5000	ug/L	20000	8900	93	90-110			
Sulfate as SO4	70000		5000	ug/L	20000	49000	105	90-110			

Matrix Spike Dup (4I25016-MSD1) Prepared: 09/25/2014 11:39 Analyzed: 09/25/2014 16:36

Source: C410922-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	28000		5000	ug/L	20000	8900	96	90-110	2	10	
Sulfate as SO4	71000		5000	ug/L	20000	49000	108	90-110	1	10	

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 4I23011 - EPA 3510C

Blank (4I23011-BLK1) Prepared: 09/23/2014 14:30 Analyzed: 09/26/2014 22:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	0.27	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*1.8*			*ug/L*	*2.00*		*90*	*68-139*			

LCS (4I23011-BS1) Prepared: 09/23/2014 14:30 Analyzed: 09/26/2014 22:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	1.8		0.50	ug/L	2.00		88	37-129			
Surrogate: 2,4-DCAA	*2.2*			*ug/L*	*2.00*		*108*	*68-139*			

Matrix Spike (4I23011-MS1) Prepared: 09/23/2014 14:30 Analyzed: 09/26/2014 22:57

Source: C410922-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	3.0		0.50	ug/L	2.00	0.27 U	148	37-129			QM-07
Surrogate: 2,4-DCAA	*1.1*			*ug/L*	*2.00*		*56*	*68-139*			*QS-03*

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QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 4I23011 - EPA 3510C

Matrix Spike Dup (4I23011-MSD1) Prepared: 09/23/2014 14:30 Analyzed: 09/26/2014 23:23

Source: C410922-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	1.0		0.50	ug/L	2.00	0.27 U	51	37-129	97	33	QM-11
Surrogate: 2,4-DCAA	*0.91*			*ug/L*	*2.00*		*46*	*68-139*			*QS-03*

Batch 4J01027 - EPA 3510C

Blank (4J01027-BLK1) Prepared: 10/01/2014 16:00 Analyzed: 10/03/2014 11:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	0.27	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*1.9*			*ug/L*	*2.00*		*94*	*68-139*			

LCS (4J01027-BS1) Prepared: 10/01/2014 16:00 Analyzed: 10/03/2014 12:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	1.9		0.50	ug/L	2.00		94	37-129			
Surrogate: 2,4-DCAA	*2.4*			*ug/L*	*2.00*		*122*	*68-139*			

Matrix Spike (4J01027-MS1) Prepared: 10/01/2014 16:00 Analyzed: 10/03/2014 12:43

Source: A405642-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	1.7		0.50	ug/L	2.00	0.27 U	86	37-129			
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*102*	*68-139*			

Matrix Spike Dup (4J01027-MSD1) Prepared: 10/01/2014 16:00 Analyzed: 10/03/2014 13:09

Source: A405642-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	1.6		0.50	ug/L	2.00	0.27 U	81	37-129	6	33	
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*99*	*68-139*			

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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.
GC-01	Coeluter
Q	Analysis performed outside of method - specified holding time.
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-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QM-12	Precision between duplicate samples was outside acceptance limits.
QS-03	Surrogate recovery outside acceptance limits

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ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

4810 Executive Park Court, Suite 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

www.encolabs.com

Client Name: Golder Associates, Inc. (GO007)	Project Number: 08396506014.100
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): A. Stoddard, Golder	Billing Contact: Accounts Payable
Sampler(s) Signature: Anne Stoddard	Site Location / Time Zone: Henderson Co. / EST

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C410922

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,Cd,Co,Cr,Cu,Fe,Mn,Ni,Pb,Sb,Se,Se,Tl,V,Zn	Alkalinity 310.2, Chloride 300, TDS SM2540C	Hg	Sulfate 300					Sample Comments
	4501-MW10	9-18-14	0830	Gr	GW	6	X	X	X	X	X	X					
	4501-MW11 (MS/MSD)	↓	1409	Gr	GW	11	X	X	X	X	X	X					
	4501-MW12	↓	0935	Gr	GW	6	X	X	X	X	X	X					
	4501-MW13	↓	0925	Gr	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
RAY	8/27	Anne Stoddard	9-19-14/9AM	[illegible]	9/19/14 10:30
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 April 9, 2004 & the 2013 Unit Price Sheet
3. GST fee $ 1500

Cooler #'s & Temps on Receipt: C-99 1.6°

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

WORK ORDER

Printed: 10/3/2014 4:45:48PM

C410922

ENCO Cary

Sample Receipt Conditions

Client:	**Golder Associates, Inc. (GO007)**	**Lab Project Mgr:**	**Stephanie Franz**
Project:	**Henderson Co. LF C&D**	**Project Number:**	**08396506014.100**
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:	Andrew S Coons	Date Received:	19-Sep-14 10:30
Logged In By:	Andrew S Coons	Date Logged In:	19-Sep-14 11:29

Work Order Comments:

C-99 received at 1.6°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
Temperature Corrected	Y								

GOLDER ASSOCIATES INC.
QUALITY ASSURANCE & QUALITY CONTROL
LABORATORY DATA REVIEW

Project Name: Henderson County C&D Landfill

Project Reference Number: 0839-650614.101

Sampling Event Date: September 17-18, 2014

Review Date: October 27, 2014 *Initials:* DC

Report #: C410922

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

DC COC was properly signed by all parties.

DC Correct project name and number are on the form.

DC Sample receipt condition at laboratory was acceptable.

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

2.0 SAMPLE HOLDING TIMES

DC 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

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

DC Laboratory blank is interference-free.

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

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

- ***The 8151A surrogate spike recovery of 2,4-DCAA was outside of control limits for samples MW-10, MW-12, and MW-13. The samples were reprepped (outside of the EPA's recommended holding time) and reanalyzed. Both sets of results are included in this report.***

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

DC 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 2,4-D was outside of control limits for the 8151A MS sample, and precision between duplicates spikes exceeded acceptance criteria. The QC batch was approved based on acceptable LCS recovery of this analyte.***

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

- ***Precision between duplicate analyses of TDS exceeded acceptance criteria. The QC batch was approved based on acceptable LCS recovery of this analyte.***

4.0 ANALYTE LISTS/METHODS

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

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

5.0 DATA REPORTING

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

DC 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.

- **Field Blank**
  - ***Barium @ 1.96 ug/L (J)*** ****B-flag: MW-10***

DC 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.

DC The report provides the reporting limit for each constituent.

DC 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.

DC 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.

- **Cobalt** ***(GWPS = 1 ug/L)***
  - ***MW-11 @ 7.44 ug/L (J)***
- **Iron** ***(NC2L = 300 ug/L)***
  - ***MW-10 @ 425 ug/L***
  - ***MW-11 @ 6200 ug/L***
  - ***MW-13 @ 454 ug/L***
- **Manganese** ***(NC2L = 50 ug/L)***
  - ***MW-11 @ 1950 ug/L***
  - ***MW-12 @ 176 ug/L***
  - ***MW-13 @ 64.7 ug/L***
- **Tetrachloroethene** ***(NC2L = 0.7 ug/L)***
  - ***MW-12 @ 0.91 ug/L (J)***
- **Toluene** ***(SWSL = 1 ug/L)***
  - ***MW-11 @ 1.4 ug/L***
- **Trichlorofluoromethane** ***(SWSL = 1 ug/L)***
  - ***MW-13 @ 1.6 ug/L***
- **VC** ***(NC2L = 0.03 ug/L) (SWSL = 1ug/L)***
  - ***MW-11 @ 0.97 ug/L (J)***
  - ***MW-12 @ 0.92 ug/L (J)***
  - ***MW-13 @ 2.0 ug/L***

DC 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).

- **Toluene**
  - ***MW-11 @ 1.4 ug/L (first-time detection)***

N/A Other report issues/Communications with laboratory/etc.:

APPENDIX C

STATISTICAL EVALUATION WORKSHEETS & SUMMARY TABLE

Summary of Statistical Analysis
Henderson County Landfill, Permit No. 45-01
Hendersonville, North Carolina

September 2014												
Detected Monitoring Constituent/Analytes	**Reporting Units**	**Statistical Evaluation Method**		**Prediction Interval**	**Downgradient Monitoring Wells and Concentrations**						
					MW-6	**MW-7**	**MW-8**	**AMW-1S**	**AMW-1D**	**AMW-2S**	**AMW-2D**
Barium	ug/L	Interwell	Upper Prediction Interval	2632	482	453	1050	306	16.5 J	5.60 B	2.15 B
Cadmium	ug/L	Interwell	Nonparametric Prediction Interval	1.57	ND	0.858 J	ND	2.41	ND	ND	ND
		AMW-1S Intrawell	Nonparametric Prediction Interval	2.87							
Mercury	ug/L	Interwell	Nonparametric Prediction Interval	0.70	ND	ND	ND	ND	ND	1.53	ND
		AMW-2S Intrawell	Nonparametric Prediction Interval	0.31							

Notes:
1. Shaded values represent apparent statistical significant increases (SSIs) over background concentrations. The mercury detection in AMW-2S is considered an SSI for the Sept 2014 monitoring event.
2. Statistical worksheets are provided as Appendix C.
3. ug/L = micrograms per liter
4. J = estimated concentration below the Solid Waste Section Limit
5. ND = Not detected at the laboratory detection limit.
6. B = Blank-qualified data
7. --- = data not available

Project Name: Henderson County Landfill
Project No: 0839-650614.100
Date: 11/18/14

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
41	03/27/14	MW-5	42.5	J	100
42	09/18/14	MW-5	31.2	J	100

Number of Data	42
Number of Truncated Data	19
Percentage of Truncated Data	45%

Upper Prediction Limit: **2632 ug/L**

Project Name: Henderson County Landfill
Project No: 0839-650614.100
Date: 11/18/14

Probability Plots to determine the distribution of Barium

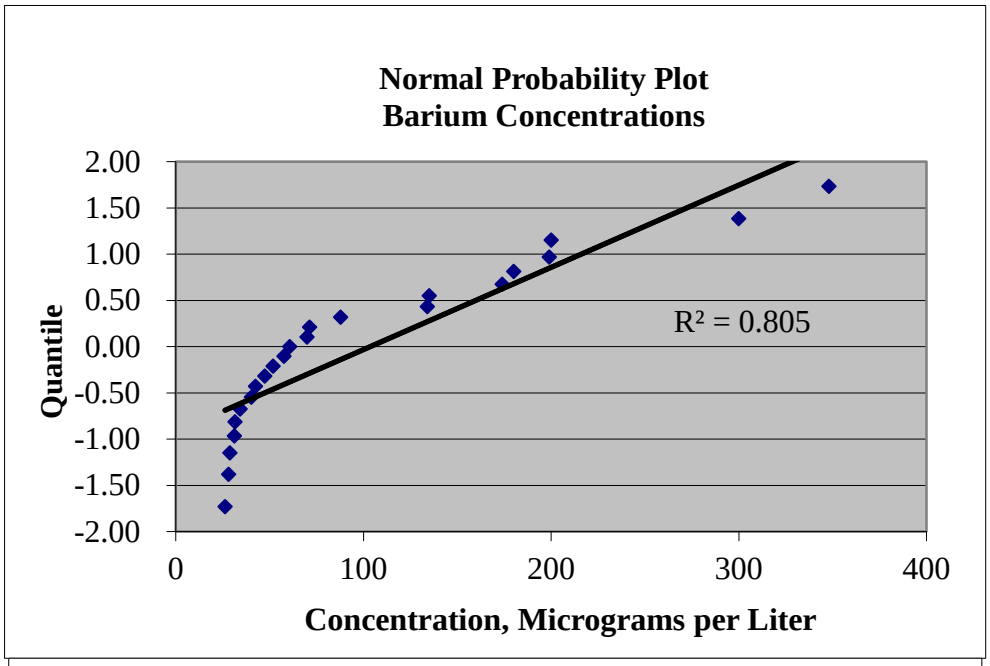
Complete the following table where:

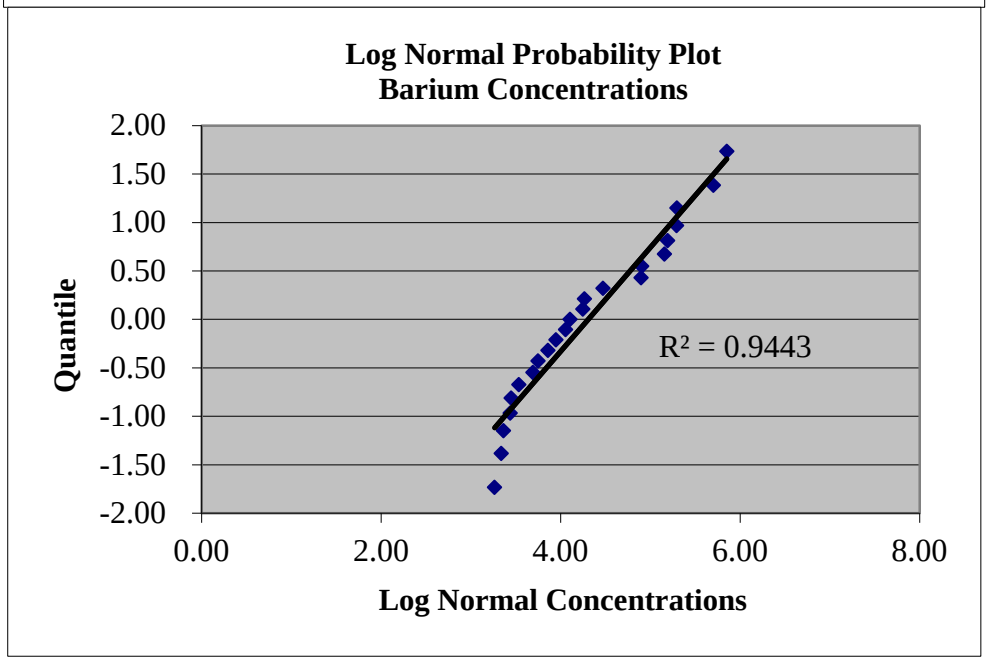
i = ordered value of sample, arranged from smallest to largest
X(i) = sample values arranged from smallest to largest
LN[X(i)] = Natural Log Value of sample concentrations arranged from smallest to largest
[i/(n+1)] = Cumulative probability
n = number of samples = 23

X(i)	LN[X(i)]	i	Rank	[Rank/(n+1)]	Quantiles
26.2	3.27	1	1	0.042	-1.73
28.2	3.34	2	2	0.083	-1.38
28.9	3.36	3	3	0.125	-1.15
31.2	3.44	4	4	0.167	-0.97
31.5	3.45	5	5	0.208	-0.81
34.3	3.54	6	6	0.250	-0.67
40.2	3.69	7	7	0.292	-0.55
42.5	3.75	8	8	0.333	-0.43
47.5	3.86	9	9	0.375	-0.32
51.9	3.95	10	10	0.417	-0.21
57.7	4.06	11	11	0.458	-0.10
60.8	4.11	12	12	0.500	0.00
69.9	4.25	13	13	0.542	0.10
71.3	4.27	14	14	0.583	0.21
87.8	4.48	15	15	0.625	0.32
134	4.90	16	16	0.667	0.43
135	4.91	17	17	0.708	0.55
174	5.16	18	18	0.750	0.67
180	5.19	19	19	0.792	0.81
199	5.29	20	20	0.833	0.97
200	5.30	21	21	0.875	1.15
300	5.70	22	22	0.917	1.38
348	5.85	23	23	0.958	1.73

Project Name: Henderson County Landfill
Project No: 0839-650614.100
Date: 11/18/14

Probability Plots to determine the distribution of Barium





Project Name: Henderson County Landfill
Project No: 0839-650614.100
Date: 11/18/14

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	34673	MW-5	134		100
2	34744	MW-5	ND		100
3	34792	MW-5	174		100
4	35002	MW-5	348		100
5	35163	MW-5	199		100
6	35362	MW-5	300		100
7	35535	MW-5	180		100
8	35732	MW-5	200		100
9	35929	MW-5	ND		100
10	36079	MW-5	ND		100
11	36315	MW-5	ND		100
12	36462	MW-5	ND		100
13	36636	MW-5	ND		100
14	36837	MW-5	ND		100
15	37026	MW-5	ND		100
16	37180	MW-5	ND		100
17	37370	MW-5	ND		100
18	37530	MW-5	ND		100
19	37720	MW-5	ND		100
20	37914	MW-5	ND		100
21	38070	MW-5	ND		100
22	38287	MW-5	ND		100
23	38497	MW-5	ND		100
24	38629	MW-5	ND		100
25	38832	MW-5	ND		100
26	38994	MW-5	ND		100
27	39162	MW-5	47.5	J	100
28	39357	MW-5	135		100
29	39541	MW-5	87.8	J	100
30	39750	MW-5	69.9	J	100
31	39896	MW-5	26.2	J	100
32	40078	MW-5	31.5	J	100
33	40259	MW-5	28.2	J	100
34	40444	MW-5	34.3	J	100
35	40618	MW-5	71.3	J	100
36	40807	MW-5	40.2	J	100
37	40989	MW-5	60.8	J	100
38	41172	MW-5	28.9	J	100
39	41353	MW-5	51.9	J	100

40	41535	MW-5	57.7	J	100
41	41725	MW-5	42.5	J	100
42	41900	MW-5	31.2	J	100
		mean =	103		
		STD =	90.9		

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 = 103
STD = 90.9

Tn = 2.690

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 = 42
Tc = 2.887

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

Project Name: Henderson County Landfill
Project No: 0839-650614.100
Date: 11/18/14

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	26.2	348	322	0.4542	146.16
2	28.2	300	272	0.3126	84.96
3	28.9	200	171	0.2563	43.85
4	31.2	199	168	0.2139	35.89
5	31.5	180	149	0.1787	26.54
6	34.3	174	140	0.148	20.68
7	40.2	135	95	0.1201	11.39
8	42.5	134	92	0.0941	8.61
9	47.5	87.8	40.3	0.0696	2.80
10	51.9	71.3	19.4	0.0459	0.89
11	57.7	69.9	12.2	0.0228	0.28
12	60.8	60.8	0.0	0	0.00
13	69.9	57.7			
14	71.3	51.9			
15	87.8	47.5			
16	134.0	42.5			
17	135.0	40.2			
18	174.0	34.3			
19	180.0	31.5			
20	199.0	31.2			
21	200.0	28.9			
22	300.0	28.2			
23	348.0	26.2			

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)	=	382.05
SD =	standard deviation of the data group	=	90.91
n =	number of samples	=	23

W = 0.803

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) = 0.914
and the calculated W = 0.803

Therefore the data is Non Normal

Project Name: Henderson County Landfill
Project No: 0839-650614.100
Date: 11/18/14

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	0.4542	1.1748
2	3.34	5.70	2.3645	0.3126	0.7391
3	3.36	5.30	1.9345	0.2563	0.4958
4	3.44	5.29	1.8529	0.2139	0.3963
5	3.45	5.19	1.7430	0.1787	0.3115
6	3.54	5.16	1.6239	0.1480	0.2403
7	3.69	4.91	1.2114	0.1201	0.1455
8	3.75	4.90	1.1483	0.0941	0.1081
9	3.86	4.48	0.6143	0.0696	0.0428
10	3.95	4.27	0.3176	0.0459	0.0146
11	4.06	4.25	0.1918	0.0228	0.0044
12	4.11	4.11	0.0000	0.0000	0.0000
13	4.25	4.06			
14	4.27	3.95			
15	4.48	3.86			
16	4.90	3.75			
17	4.91	3.69			
18	5.16	3.54			
19	5.19	3.45			
20	5.29	3.44			
21	5.30	3.36			
22	5.70	3.34			
23	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) = 3.6731
SD = standard deviation of the data group = 0.8161
n = number of samples = 23

W = 0.9207

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) = 0.914
and the calculated W = 0.921

Therefore the data set is Log Normal

Project Name: Henderson County Landfill
Project No: 0839-650614.100
Date: 11/18/14

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	60.8	4.11
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
41	3/27/14	MW-5	42.5	3.75
42	9/18/14	MW-5	31.2	3.44

Mean of detected values =	4.31
Standard Deviation of detected values =	0.82

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	=	42
	M =	mean detected values	=	4.31
		M(a)	**=**	**2.36**

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	=	42
	d =	number non-detected values	=	19
	S =	std deviation of detected values squared	=	0.67
	MM =	mean of detected values squared	=	18.57
		STD(a)	=	5.07

and the adjusted standard deviation is then

S(a) = SQRT(STD(a)) = 2.25

Project Name: Henderson County Landfill
Project No: 0839-650614.100
Date: 11/18/14

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	4.898
2	2/14/95	MW-5	ND	100	ND
3	4/3/95	MW-5	174	100	5.159
4	10/30/95	MW-5	348	100	5.852
5	4/8/96	MW-5	199	100	5.293
6	10/24/96	MW-5	300	100	5.704
7	4/15/97	MW-5	180	100	5.193
8	10/29/97	MW-5	200	100	5.298
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	3.861
28	10/2/07	MW-5	135	100	4.905
29	4/3/08	MW-5	87.8	100	4.475
30	10/29/08	MW-5	69.9	100	4.247
31	3/24/09	MW-5	26.2	100	3.266
32	9/22/09	MW-5	31.5	100	3.450
33	3/22/10	MW-5	28.2	100	3.339
34	9/23/10	MW-5	34.3	100	3.535
35	3/16/11	MW-5	71.3	100	4.267
36	9/21/11	MW-5	40.2	100	3.694
37	3/21/12	MW-5	60.8	100	4.108
38	9/20/12	MW-5	28.9	100	3.364
39	3/20/13	MW-5	51.9	100	3.949
40	9/18/13	MW-5	57.7	100	4.055
41	3/27/14	MW-5	42.5	100	3.750
42	9/18/14	MW-5	31.2	100	3.440

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)	=	2.36
ln(adjusted standard deviation)	=	2.25

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 =	2.360	
	Std Dev =	2.251	
	t(n-1,k,.95)*sqrt(1/m+1/n) =	2.450	
	k =	7	
	m =	1	
	n =	42	
	Antilog UPL =	**2632**	ug/L

Project Name: Henderson County Landfill
Project No: 0839-650614.100
Date: 11/18/14

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	100.00	4.898
2	2/14/95	MW-5	ND	100.00	ND
3	4/3/95	MW-5	174	100.00	5.159
4	10/30/95	MW-5	348	100.00	5.852
5	4/8/96	MW-5	199	100.00	5.293
6	10/24/96	MW-5	300	100.00	5.704
7	4/15/97	MW-5	180	100.00	5.193
8	10/29/97	MW-5	200	100.00	5.298
9	5/14/98	MW-5	ND	100.00	ND
10	10/11/98	MW-5	ND	100.00	ND
11	6/4/99	MW-5	ND	100.00	ND
12	10/29/99	MW-5	ND	100.00	ND
13	4/20/00	MW-5	ND	100.00	ND
14	11/7/00	MW-5	ND	100.00	ND
15	5/15/01	MW-5	ND	100.00	ND
16	10/16/01	MW-5	ND	100.00	ND
17	4/24/02	MW-5	ND	100.00	ND
18	10/1/02	MW-5	ND	100.00	ND
19	4/9/03	MW-5	ND	100.00	ND
20	10/20/03	MW-5	ND	100.00	ND
21	3/24/04	MW-5	ND	100.00	ND
22	10/27/04	MW-5	ND	100.00	ND
23	5/25/05	MW-5	ND	100.00	ND
24	10/4/05	MW-5	ND	100.00	ND
25	4/25/06	MW-5	ND	100.00	ND
26	10/4/06	MW-5	ND	100.00	ND
27	3/21/07	MW-5	47.5	100.00	3.861
28	10/2/07	MW-5	135	100.00	4.905
29	4/3/08	MW-5	87.8	100.00	4.475
30	10/29/08	MW-5	69.9	100.00	4.247
31	3/24/09	MW-5	26.2	100.00	3.266
32	9/22/09	MW-5	31.5	100.00	3.450
33	3/22/10	MW-5	28.2	100.00	3.339
34	9/23/10	MW-5	34.3	100.00	3.535
35	3/16/11	MW-5	71.3	100.00	4.267
36	9/21/11	MW-5	40.2	100.00	3.694
37	3/21/12	MW-5	60.8	100.00	4.108
38	9/20/12	MW-5	28.9	100.00	3.364
39	3/20/13	MW-5	51.9	100.00	3.949
40	9/18/13	MW-5	57.7	100.00	4.055
41	3/27/14	MW-5	42.5	100.00	3.750
42	9/18/14	MW-5	31.2	100.00	3.440

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) =	2.36
ln(adjusted standard deviation) =	2.25

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 = 2.112
n = 42

UTL = 1230 ug/L

Project Name: Henderson County Landfill
Project No: 0839-650614.100
Date: 11/18/14

Analyte: Cadmium

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	12/05/94	MW-5	ND		1
2	02/14/95	MW-5	ND		1
3	04/03/95	MW-5	ND		1
4	10/30/95	MW-5	ND		1
5	04/08/96	MW-5	ND		1
6	10/24/96	MW-5	ND		1
7	04/15/97	MW-5	ND		1
8	10/29/97	MW-5	ND		1
9	05/14/98	MW-5	ND		1
10	10/11/98	MW-5	ND		1
11	06/04/99	MW-5	ND		1
12	10/29/99	MW-5	ND		1
13	04/20/00	MW-5	ND		1
14	11/07/00	MW-5	ND		1
15	05/15/01	MW-5	ND		1
16	10/16/01	MW-5	ND		1
17	04/24/02	MW-5	ND		1
18	10/01/02	MW-5	ND		1
19	04/09/03	MW-5	ND		1
20	10/20/03	MW-5	ND		1
21	03/24/04	MW-5	ND		1
22	10/27/04	MW-5	ND		1
23	05/25/05	MW-5	ND		1
24	10/04/05	MW-5	ND		1
25	04/25/06	MW-5	ND		1
26	10/04/06	MW-5	ND		1
27	03/21/07	MW-5	1.57	J	1
28	10/02/07	MW-5	ND		1
29	04/03/08	MW-5	ND		1
30	10/29/08	MW-5	ND		1
31	03/24/09	MW-5	ND		1
32	09/22/09	MW-5	0.667	J	1
33	03/22/10	MW-5	ND		1
34	09/23/10	MW-5	ND		1
35	03/16/11	MW-5	ND		1
36	09/21/11	MW-5	ND		1
37	03/21/12	MW-5	ND		1
38	09/20/12	MW-5	ND		1
39	03/20/13	MW-5	ND		1
40	09/18/13	MW-5	ND		1
41	03/27/14	MW-5	ND		1
42	09/18/14	MW-5	ND		1

Number of Data	42
Number of Truncated Data	40
Percentage of Truncated Data	95%

Nonparametric Prediction Interval: **1.57** ug/L

Project Name: Henderson County Landfill
Project No: 0839-650614.100
Date: 11/18/14

Analyte: Cadmium (AMW-1S Intrawell)

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	04/20/00	AMW-1S	ND		1
2	04/24/02	AMW-1S	ND		1
3	10/01/02	AMW-1S	ND		1
4	04/09/03	AMW-1S	ND		1
5	10/20/03	AMW-1S	ND		1
6	03/24/04	AMW-1S	ND		1
7	10/27/04	AMW-1S	1.0		1
8	05/25/05	AMW-1S	ND		1
9	10/04/05	AMW-1S	2.6		1
10	04/25/06	AMW-1S	ND		1
11	10/04/06	AMW-1S	ND		1
12	03/21/07	AMW-1S	2.5	J	1
13	10/02/07	AMW-1S	ND		1
14	04/03/08	AMW-1S	0.3	J	1
15	10/29/08	AMW-1S	ND		1
16	03/24/09	AMW-1S	0.6	J	1
17	09/22/09	AMW-1S	ND		1
18	03/22/10	AMW-1S	ND		1
19	09/23/10	AMW-1S	0.4	J	1
20	03/16/11	AMW-1S	1.1		1
21	09/21/11	AMW-1S	0.8	J	1
22	03/21/12	AMW-1S	2.1		1
23	09/20/12	AMW-1S	2.9		1
24	03/20/13	AMW-1S	1.2		1
25	09/18/13	AMW-1S	0.7	J	1
26	03/27/14	AMW-1S	1.2		1

Number of Data	26
Number of Truncated Data	13
Percentage of Truncated Data	50%

Nonparametric Prediction Interval: **2.87** ug/L

Project Name: Henderson County Landfill
Project No: 0839-650614.100
Date: 11/18/14

Analyte: Mercury

Sample No.	Sample Date	Location	Concentration (ug/L)	Quantitation Limit (ug/L)
1	10/30/95	MW-5	0.5	0.2
2	10/24/96	MW-5	0.7	0.2
3	10/29/97	MW-5	ND	0.2
4	05/14/98	MW-5	ND	0.2
5	10/11/98	MW-5	ND	0.2
6	06/04/99	MW-5	ND	0.2
7	10/29/99	MW-5	ND	0.2
8	04/20/00	MW-5	ND	0.2
9	11/07/00	MW-5	ND	0.2
10	05/15/01	MW-5	ND	0.2
11	10/16/01	MW-5	ND	0.2
12	04/24/02	MW-5	ND	0.2
13	10/01/02	MW-5	ND	0.2
14	04/09/03	MW-5	ND	0.2
15	10/20/03	MW-5	ND	0.2
16	03/24/04	MW-5	ND	0.2
17	10/27/04	MW-5	ND	0.2
18	05/25/05	MW-5	ND	0.2
19	10/04/05	MW-5	ND	0.2
20	04/25/06	MW-5	ND	0.2
21	10/04/06	MW-5	ND	0.2
22	03/21/07	MW-5	ND	0.2
23	10/02/07	MW-5	ND	0.2
24	04/03/08	MW-5	ND	0.2
25	10/29/08	MW-5	ND	0.2
26	03/24/09	MW-5	ND	0.2
27	09/22/09	MW-5	ND	0.2
28	03/22/10	MW-5	ND	0.2
29	09/23/10	MW-5	ND	0.2
30	03/16/11	MW-5	ND	0.2
31	09/21/11	MW-5	ND	0.2
32	03/21/12	MW-5	ND	0.2
33	09/20/12	MW-5	ND	0.2
34	03/20/13	MW-5	ND	0.2
35	09/18/13	MW-5	ND	0.2
36	03/27/14	MW-5	ND	0.2
37	09/18/14	MW-5	ND	0.2

Number of Data	37
Number of Truncated Data	35
Percentage of Truncated Data	95%

Nonparametric Prediction Interval: **0.70** ug/L

Project Name: Henderson County Landfill
Project No: 0839-650614.100
Date: 11/18/14

Analyte: Mercury (AMW-2S Intrawell)

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	04/03/08	AMW-2S	ND		0.2
2	10/29/08	AMW-2S	ND		0.2
3	03/24/09	AMW-2S	ND		0.2
4	03/22/10	AMW-2S	ND		0.2
5	09/23/10	AMW-2S	ND		0.2
6	03/16/11	AMW-2S	0.2	J	0.2
7	09/21/11	AMW-2S	0.2		0.2
8	03/21/12	AMW-2S	ND		0.2
9	09/20/12	AMW-2S	ND		0.2
10	03/20/13	AMW-2S	ND		0.2
11	09/18/13	AMW-2S	0.3		0.2
12	03/27/14	AMW-2S	0.3		0.2

Number of Data	12
Number of Truncated Data	8
Percentage of Truncated Data	67%

Nonparametric Prediction Interval: **0.31** ug/L